

# **summary of all product catalogues**

## **2025**

**for further information please use the following product catalogues:**

- **Food and Feed**
- **Consumer goods and packaging**
  - **Material testing**
  - **Medical devices**
- **Environmental analytics**

# Food and Feed

## product catalogue 2025

chemical-physical

organoleptic

immunological, molecular  
biological & microbiological



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## Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

### Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 500 PT's per year

### Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Accredited PT-provider

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).



### Accreditation DIN EN ISO/IEC 17043:2010 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2010. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-EP-17063-01-00].

Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

### Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

### Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

## Food industry

The DRRR offers in the field of the quality assurance for the chemical analysis a variety of different primary, intermediate and final products for the food and packaging industry.

The laboratories can secure their analytics with the DRRR services as well as main parameters like fat, protein and dry matter and side and trace parameters.

- Milk and milk products
- Fruit and fruit juices
- Sweets and pastries
- Food of animal origin
- Meat and egg products
- Animal feed
- Oil and oilseeds

## Safety parameters and adulterants

For the quality assurance in the field the chemical analysis of safety parameters and adulterants the DRRR offers a variety of different parameter-matrix-combinations.

- Mycotoxins
- Residues (e.g. pesticides)
- Allergens
- Contaminants (e.g. PAH, heavy metals, PFAS)

## Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

**Market-leading statistical evaluation**

## Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboratories can be presented.

# Individual Proficiency testing



In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

## Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

**Benefit from our high quality standards in all important fields of testing.**

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

**Get in touch with us.**

**We look forward to working with you!**

# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information: <a href="#">Login or register</a>
<b>Milk and cream</b>				
2010007	<b>UHT milk 1</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], density [g/ml] (all quantitative)	Apr-25	
2010366	<b>UHT milk 2</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], lactulose [mg/100g], aw value [-] (all quantitative)	Sep-25	
2010107	<b>UHT milk (lactose free)</b>	<input type="checkbox"/> lactose (monohydrate) - enzymatic [g/100g], lactose (monohydrate) - chromatographic [g/100g] (all quantitative)	May-25	
2010015	<b>Raw milk 1</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], pH value [-], casein [g/100g] (all quantitative)	Jan-25	
2010005	<b>Raw milk 2</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], pH value [-], casein [g/100g] (all quantitative)	Jun-25	
2010370	<b>Raw milk 3</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], casein [g/100g] (all quantitative)	Oct-25	
2010372	<b>Goat's milk</b>	<input type="checkbox"/> fat [g/100g], protein (N x 6,38) [g/100g], freezing point [m°C] (all quantitative)	Dec-25	
2010003	<b>Raw cream 1</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g] (all quantitative)	Feb-25	
2010374	<b>Raw cream 2</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g] (all quantitative)	Jul-25	
2010170	<b>Sour cream - Crème fraîche</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], pH value [-] (all quantitative)	Dec-25	
2010041	<b>Evaporated milk</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], ash [g/100g], phosphorus (P) [mg/100g] (all quantitative)	Jul-25	
2010624	<b>Buttermilk</b>	<input type="checkbox"/> phosphatides (calculated as lecithin) [mg/100g], fat [g/100g], dry matter [g/100g], ash [g/100g], pH value [-], acidity acc. Soxhlet-Henkel [SH], density in heat serum [g/ml] (all quantitative)	Apr-25	
2010702	<b>Dairy drinks</b>	<input type="checkbox"/> fat [g/100g], crude protein (N x 6,38) [g/100g], dry matter [g/100g], sucrose (anhydrous) [g/100g], glucose (anhydrous) [g/100g], lactose (monohydrate) [g/100g], fructose (anhydrous) [g/100g], total sugar (anhydrous) [g/100g] (all quantitative)	Dec-25	
2011117	<b>Pesticides in raw milk</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-25	
<b>Milk products (other)</b>				
2010852	<b>Whey concentrate</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], ash [g/100g] (all quantitative)	Jul-25	
2010009	<b>Butter</b>	<input type="checkbox"/> solids non fat [g/100g], moisture content [g/100g], hardness [N], chloride [mg/100g], cholesterol [mg/100g], pH value [-] (all quantitative)	Sep-25	
2010382	<b>Butter (fatty acid profile)</b>	<input type="checkbox"/> butyric acid [% / fat], caproic acid [% / fat], caprylic acid [% / fat], capric acid [% / fat], lauric acid [% / fat], myristic acid [% / fat], myristoleic acid [% / fat], myristelaidic acid [% / fat], palmitic acid [% / fat], palmitoleic acid [% / fat], palmitelaidic acid [% / fat], stearic acid [% / fat], linoleic acid [% / fat], linolenic acid [% / fat], gamma linolenic acid [% / fat], eicosatrienoic acid [% / fat], eicosatetraenoic acid [% / fat], eicosapentaenoic acid [% / fat] (all quantitative)	Sep-25	
2010017	<b>Yoghurt</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], pH value [-], total lactic acid [mg/100g] (all quantitative)	Nov-25	
2010087	<b>Pudding - dessert</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], pH value [-] (all quantitative)	Nov-25	
2010091	<b>AMF anhydrous milk fat</b>	<input type="checkbox"/> water content [g/100g], alkalinity [mg/kg], free fatty acids [g/100g], peroxide value [meq.O2/kg], total β-carotene [mg/kg], butyric acid methyl ester [g/100g] (all quantitative)	Apr-25	
3010012	<b>Ice cream (base mix)</b>	<input type="checkbox"/> total fat [g/100 g] (quant.), milk fat [g/100 g] (quant.), colouring agent cochénille red A [mg/kg] (quant.), lactose (monohydrate) [g/100 g] (quant.), vanillin [mg/kg] (quant.), vanillin acid [mg/kg] (quant.), p-hydroxybenzaldehyde [mg/kg] (quant.), p-hydroxybenzoic acid [mg/kg] (quant.), colouring agent curcumin [pos./neg.] (qual.), colouring agent β-carotene [pos./neg.] (qual.), colouring agent cochénille red A qual. [pos./neg.] (qual.), foreign fat (added fat) [pos./neg.] (qual.)	Sep-25	
2010453	<b>Protein powder - amino acid profile</b>	<input type="checkbox"/> alanine (Ala) [g/100 g proteine], arginine (Arg) [g/100 g proteine], asparagine (Asn) [g/100 g proteine], aspartate (Asp) [g/100 g proteine], cysteine (Cys) [g/100 g proteine], glutamine (Gln) [g/100 g proteine], glutamate (Glu) [g/100 g proteine], glycine (Gly) [g/100 g proteine], histidine (His) [g/100 g proteine], isoleucine (Ile) [g/100 g proteine], leucine (Leu) [g/100 g proteine], lysine (Lys) [g/100 g proteine], methionine (Met) [g/100 g proteine], phenylalanine (Phe) [g/100 g proteine], proline (Pro) [g/100 g proteine], serine (Ser) [g/100 g proteine], Threonine (Thr) [g/100 g proteine], tryptophan (Trp) [g/100 g proteine], tyrosine (Tyr) [g/100 g proteine], valine (Val) [g/100 g proteine] (all quantitative)	Jun-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information: <a href="#">Login or register</a>
<b>Cheese</b>				
2010378	<b>Processed cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g], pH value [ - ], sodium chloride [g/100g], nitrate [mg/kg], citric acid (monohydrate) [mg/100g], phosphorus [mg/100g], ash [g/100g], lactose (monohydrate) [g/100g] (all quantitative)	Sep-25	
2010029	<b>Fresh cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g] (all quantitative)	Apr-25	
2010164	<b>Curd</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein ((N x 6,38) [g/100g], total lactic acid [mg/100g] (all quantitative)	Oct-25	
2010047	<b>Semi hard cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], nitrate [mg/kg] (all quantitative)	May-25	
2010031	<b>Hard cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g] (all quantitative)	Apr-25	
2010037	<b>Soft cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], pH value [ - ] (all quantitative)	May-25	
2010258	<b>Processed cheese (natamycin, aflatoxin)</b>	<input type="checkbox"/> natamycin (CAS 7681-93-8) [mg/kg], aflatoxin M1 [µg/kg] (all quantitative)	May-25	
<b>Milk powder</b>				
2010027	<b>Whole milk powder</b>	<input type="checkbox"/> fat [g/100 g], free fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], lactose (monohydrate) [g/100 g], ash [g/100 g], titratable acid [g/100 g], pH value [ - ] (all quantitative)	Apr-25	
2010001	<b>Skimmed milk powder</b>	<input type="checkbox"/> fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], lactose (monohydrate) [g/100 g], ash [g/100 g], titratable acid [g/100 g], pH value [ - ] (all quantitative)	Sep-25	
2010123	<b>Milk powder (lactose reduced)</b>	<input type="checkbox"/> lactose (monohydrate) - chromatographic [g/100 g], lactose (monohydrate) - enzymatic [g/100 g], moisture content [g/100 g] (all quantitative)	Dec-25	
2010113	<b>Milk powder nitrate - nitrite</b>	<input type="checkbox"/> nitrate [mg/kg], nitrite [mg/kg] (all quantitative)	Aug-25	
2010023	<b>Whey powder</b>	<input type="checkbox"/> fat [g/100 g], moisture content [g/100 g], protein [g/100 g], ash [g/100 g], lactose (monohydrate) [g/100 g], titratable acid [g/100 g], pH value [ ] (all quantitative)	Mar-25	
2010245	<b>Mineral oil in cheese and milk powder</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Jul-25	
<b>Egg products</b>				
2010056	<b>Egg products</b>	<input type="checkbox"/> total lipids [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], pH value [ - ], cholesterol [mg/100 g], α-linolenic acid methyl ester [g/100 g total fatty acid methyl ester], eicosapentaenoic acid methyl ester [g/100 g total fatty acid methyl ester], docosahexaenoic acid methyl ester [g/100 g total fatty acid methyl ester], sodium chloride [g/100 g] (all quantitative)	Dec-25	
2010413	<b>Egg pasta</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], sodium chloride [g/100 g], cholesterol [mg/100 g], total sterols [mg/100 g], egg content [g/100 g], fibre [g/100 g] (all quantitative)	Dec-25	
2010415	<b>Mayonnaise</b>	<input type="checkbox"/> total acid (pH 8.1) calculated as acetic acid [g/100 g], dry matter [g/100 g], total fat [g/100 g], cholesterol [mg/100 g], egg yolk content [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sodium chloride [g/100 g], pH value [ - ] (all quantitative)	Apr-25	
2010155	<b>Egg powder</b>	<input type="checkbox"/> total lipids [g/100 g], ash [g/100 g], pH value [ - ], dry matter [g/100 g], sodium chloride [g/100 g], L-lactic acid [mg/kg], D-3-hydroxybutyric acid [mg/kg] (all quantitative)	Nov-25	
2010129	<b>Residues in liquid egg</b>	<input type="checkbox"/> total fat [g/100 g], polychlorinated dibenzodioxins (PCDD) [pg/g fat], polychlorinated dibenzofuran (PCDF) [pg/g fat], total PCBs [pg/g fat] (all quantitative)	Dec-25	
2011120	<b>Nicotine in liquid egg</b>	<input type="checkbox"/> nicotine (CAS 54-11-5) [µg/kg], cotinine (CAS 486-56-6) [µg/kg] (all quantitative)	May-25	
2011128	<b>PFAS in liquid egg</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Aug-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Fruit &amp; vegetables products - NEW!</b>				<a href="#">Login or register</a>
2011282	<b>Bisphenol A in tomato products</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [µg/kg] (all quantitative)	Jul-25	
2011285	<b>PFAS in vegetables</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Jun-25	
<b>Fruit &amp; vegetables products</b>				
2010051	<b>Sugar mix (fruit preparation)</b>	<input type="checkbox"/> sucrose (anhydrous) [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], maltose (anhydrous) [g/100 g], starch [g/100 g], aspartame [ppm], acesulfam K [ppm], sorbate (as anion) [ppm], saccharin as free imide [ppm], total sugar (anhydrous) [g/100 g] (all quantitative)	Jul-25	
2010053	<b>Fruit preparation</b>	<input type="checkbox"/> brix value [°brix], pH value [ - ], total acid (pH 8.1) calculated as citric acid (anhydrous) [g/kg], L-malic acid [g/kg], ash [g/kg], phosphorus (P) [g/kg], potassium (K) [mg/100 g] (all quantitative)	Sep-25	
2010384	<b>Sauerkraut</b>	<input type="checkbox"/> total ascorbic acid (vitamin C) [mg/100 mL], total acid (pH 8.2) calculated as acetic acid [g/100 mL], non volatile acid (pH 8.2) calculated as acetic acid [g/100 mL], total lactic acid [mg/100 mL], pH value [ - ], sodium chloride [g/100 mL] (all quantitative)	Dec-25	
2010386	<b>Dried fruits</b>	<input type="checkbox"/> sulphur dioxide (SO <sub>2</sub> ) [mg/kg], moisture content [g/100 g], total fat [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], sucrose (anhydrous) [g/100 g], total sugar (anhydrous) [g/100 g], fibre [g/100 g] (all quantitative)	Dec-25	
2010388	<b>Dry potato product</b>	<input type="checkbox"/> moisture content [g/100 g], total fat [g/100 g], saturated fatty acids [g/100 g], crude protein (N x 6,25) [g/100 g], ash [g/100 g], carbohydrates [g/100 g], starch [g/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g], sodium (Na) [g/100 g] (all quantitative)	Dec-25	
2010390	<b>Tomato ketchup</b>	<input type="checkbox"/> pH value [ - ], total acid (pH 8.1) calculated as acetic acid [g/100 g], citric acid (anhydrous) [g/100 g], sodium chloride [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], soluble solids [g/100 g], dry matter [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sucrose (anhydrous) [g/100 g], total sugar (anhydrous) [g/100 g] (all quantitative)	Jul-25	
2010704	<b>Hot sauce</b>	<input type="checkbox"/> capsaicin [ppm], dihydrocapsaicin [ppm], nordihydrocapsaicin [ppm], total capsaicinoids [ppm] (all quantitative)	Jun-25	
2010943	<b>Solvent residues in food</b>	<input type="checkbox"/> methanol (CAS 67-56-1) [mg/kg], acetone (CAS 67-64-1) [mg/kg], n-hexane (CAS 110-54-3) [mg/kg], dichloromethane (CAS 75-09-2) [mg/kg], methyl acetate (CAS 79-20-9) [mg/kg] (all quantitative)	Dec-25	
2011086	<b>Vegetable chips</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], sodium chloride [g/100 g], acrylamide (CAS 79-06-1) [µg/kg] (all quantitative)	May-25	
2011088	<b>Pesticides in fruiting vegetables</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-25	
2011089	<b>Pesticides in pome fruit</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-25	
2011093	<b>Alternaria toxins in tomato products</b>	<input type="checkbox"/> alternariol (AOH) (CAS 641-38-3) [µg/kg], alternariol monomethyl ether (AME) (CAS 23452-05-3) [µg/kg], tenuazonic acid (TEA) (CAS 610-88-8) [µg/kg], tentoxin (TEN) (CAS 28540-82-1) [µg/kg] (all quantitative)	Nov-25	
2011097	<b>Acrylamide in potato products</b>	<input type="checkbox"/> acrylamide (CAS 79-06-1) [µg/kg] (all quantitative)	Dec-25	
2011111	<b>Pesticides in citrus fruit</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Vegan und vegetarian substitutes</b>				<a href="#">Login or register</a>
2010165	<b>Plant drink (milk alternative)</b>	<input type="checkbox"/> fat [g/100 g], dry matter [g/100 g], crude protein (N x 6,38) [g/100 g], freezing point [m°C], density [g/ml] (all quantitative)	Nov-25	
2010502	<b>Quinolizidine alkaloids in Lupins Drink</b>	<input type="checkbox"/> lupinine (CAS 486-70-4) [mg/kg], cytosine (CAS 485-35-8) [mg/kg], sparteine (CAS 90-39-1) [mg/kg] (all quantitative)	Dec-25	
2010712	<b>Vegetarian sausage substitute</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], sodium chloride [g/100 g], ash [g/100 g], fibre [g/100 g], pH value [ - ] (all quantitative)	May-25	
2010343	<b>Vegetarian bread spread</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], sodium chloride [g/100 g], ash [g/100 g], pH value [ - ] (all quantitative)	Dec-25	
<b>Meat products - NEW!</b>				
2011284	<b>PFAS in meat</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Dec-25	
<p>Many per- and polyfluorinated substances (PFAS) are subject to various restrictions in the European Union. For example, PFOS, PFOA, PFNA and PFHxS are subject to the maximum levels in selected foods introduced in the Contaminants Regulation (EU) 2023/915. Commission Recommendation (EU) 2022/1431 also recommends monitoring the presence of other PFAS in food, including PFDA, PFBS and PFOSA. This proficiency testing offers you the opportunity to check your analyses of a large number of PFAS.</p>				
<b>Meat products</b>				
2011056	<b>Cooked sausage</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], pH value [ - ], aw value [ - ], hydroxyproline [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], starch [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], L-glutamic acid [mg/kg] (all quantitative)	Nov-25	
2010019	<b>Boiled sausage 1</b>	<input type="checkbox"/> total fat [g/100 g], moisture content [g/100 g], ash [g/100 g], crude protein (N x 6,25) [g/100 g], hydroxyproline [g/100 g], sodium chloride [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], diphosphorus pentoxide (P2O5) [g/100 g], calcium (Ca) [mg/kg], aw value [ - ], starch [g/100 g] (all quantitative)	Feb-25	
2010204	<b>Boiled sausage 2</b>	<input type="checkbox"/> non-protein nitrogen (NPN) x 6.25 [g/100 g], collagen decomposition products [g/100 g], L-glutamic acid [mg/kg], citric acid (anhydrous) [mg/kg], sodium acetate [mg/kg], L-lactate [mg/kg], sodium nitrate [mg/kg], sodium nitrite [mg/kg], total ascorbic acid (vitamin C) [mg/100 g], pH value [ - ] (all quantitative)	Sep-25	
2010214	<b>Raw sausage 1</b>	<input type="checkbox"/> aw value [ - ], pH value [ - ], D-lactic acid [mg/kg], L-lactic acid [mg/kg], sodium (Na) [mg/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], sorbic acid [mg/kg], saturated fatty acids [g/100 g Fett (fat)], monounsaturated fatty acids [g/100 g Fett (fat)], total fat [g/100 g] (all quantitative)	Jun-25	
2010419	<b>Raw sausage 2</b>	<input type="checkbox"/> sodium (Na) [mg/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], hydroxyproline [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], starch [g/100 g], solubilised milk protein [g/100 g] (all quantitative)	Jun-25	
<b>Fish and seafood</b>				
2010421	<b>Fish paste 1</b>	<input type="checkbox"/> moisture content [g/ 100 g], total fat [g/ 100 g], crude protein (N x 6,25) [g/ 100 g], ash [g/ 100 g], sodium chloride [g/ 100 g], arsenic (As) [µg/ 100 g], iodine (I) [µg/ 100 g] (all quantitative)	Dec-25	
2010423	<b>Fish paste 2</b>	<input type="checkbox"/> total fat [g/ 100 g], sorbic acid [mg/ 100 g], benzoic acid [mg/ 100 g], saccharin as free imide [mg/ 100 g], cyclamate [mg/ 100 g], citric acid (anhydrous) [mg/ 100 g] (all quantitative)	Dec-25	
2011116	<b>Pesticides in fish, seafood</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-25	
2011125	<b>PFAS in fish</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg] (all quantitative)	Apr-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Nonalcoholic beverages - NEW!</b>				<a href="#">Login or register</a>
2011279	<b>Colourants in food</b>	<input type="checkbox"/> identification of various food colourants (qual.), quantification of the identified food colourants [mg/kg] (quant.)	Jul-25	
<b>Nonalcoholic beverages</b>				
2010392	<b>Coffee</b>	<input type="checkbox"/> water content [g/100 g], ash [g/100 g], pH value [-], acid content (acidity) at pH 6,00 [mmol/kg], acid content (acidity) at pH 7,00 [mmol/kg], acid content (acidity) at pH 8,00 [mmol/kg], water soluble extract [g/100 g], caffeine [g/100 g], acrylamide (CAS 79-06-1) [µg/kg], chlorogenic acid [g/100 g] (all quantitative)	Oct-25	
2010915	<b>Green coffee</b>	<input type="checkbox"/> percent mass loss [%] (all quantitative)	May-25	
2010394	<b>Tea</b>	<input type="checkbox"/> dry matter [g/100 g], ash [g/100 g dry matter], water soluble ash [g/100 g dry matter], water soluble extract [g/100 g dry matter], caffeine [g/100 g dry matter], theobromine [mg/100 g dry matter], theophylline [mg/100 g dry matter], acid-insoluble ash [g/100 g dry matter] (all quantitative)	Oct-25	
2010396	<b>Energy drink</b>	<input type="checkbox"/> pH value [-], taurine [mg/l], caffeine [mg/l], inositol [mg/l], glucuronolactone [mg/l], sucrose (anhydrous) [g/l], glucose (anhydrous) [g/l], fructose (anhydrous) [g/l], total sugar (anhydrous) [g/l], total acid (pH 8.1) calculated as tartaric acid [g/l], relative density (20 °C/20 °C) [-], absorption of light at a wavelength of 400 nm [-], absorption of light at a wavelength of 460 nm [-], absorption of light at a wavelength of 520 nm [-], absorption of light at a wavelength of 630 nm [-], CO <sub>2</sub> content [g/l], dissolved oxygen [ppm] (all quantitative)	Oct-25	
2010021	<b>Vitamin solution</b>	<input type="checkbox"/> thiamine (vitamin B1) as thiamine chloride [mg/100 ml], riboflavin (vitamin B2) as total vitamin B2 [mg/100 ml], niacin (vitamin B3) [mg/100 ml], pantothenic acid (vitamin B5) [mg/100 ml], pyridoxine (vitamin B6) [mg/100 ml], folic acid (vitamin B11) [µg/100 ml], cyanocobalamin (vitamin B12) [µg/100 ml], L-ascorbic acid [mg/100 ml], α-tocopherol (vitamin E) [mg/100 ml], riboflavin [mg/100 ml], flavin mononucleotide [mg/100 ml] (all quantitative)	May-25	
2011019	<b>Orange juice - limonin</b>	<input type="checkbox"/> limonin (CAS 1180-71-8) [mg/kg] (all quantitative)	Aug-25	
2010402	<b>Carrot juice</b>	<input type="checkbox"/> relative density (20 °C/20 °C) [-], pH value [-], total acid (pH 8.1) calculated as tartaric acid [g/l], sucrose (anhydrous) [g/l], fructose (anhydrous) [g/l], glucose (anhydrous) [g/l], nitrate [mg/l], total β-carotene [mg/100 g], α-carotene [mg/100 g], total carotenes [mg/100 g], total sugar (anhydrous) [g/l] (all quantitative)	Oct-25	
2010600	<b>Fruit juice concentrate 1</b>	<input type="checkbox"/> brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H <sup>+</sup> /kg], citric acid (anhydrous) [g/kg], total D-isocitric acid [mg/kg], L-malic acid [g/kg], L-ascorbic acid [mg/100 g], total lactic acid [g/kg], citric acid/total D-isocitric acid ratio [-], hesperidin [mg/kg] (all quantitative)	Jul-25	
2010602	<b>Fruit juice concentrate 2</b>	<input type="checkbox"/> brix value [°brix], titratable acidity (pH 8.1) [mmol H <sup>+</sup> /kg], glucose (anhydrous) [g/kg], fructose (anhydrous) [g/kg], sucrose (anhydrous) [g/kg], total sugar (anhydrous) [g/kg], sugar-free extract [g/kg], glucose/fructose ratio [-], % sucrose of sugar [%] (all quantitative)	Jun-25	
2010610	<b>Fruit juice concentrate 3</b>	<input type="checkbox"/> brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H <sup>+</sup> /kg], ash [g/kg], potassium (K) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], phosphorus (P) [mg/kg], sodium (Na) [mg/kg], nitrate [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg] (all quantitative)	Nov-25	
2011020	<b>Apple juice</b>	<input type="checkbox"/> patulin (CAS 149-29-1) [µg/l] (all quantitative)	Jun-25	
2010617	<b>Carbonated soft drinks - quinine</b>	<input type="checkbox"/> quinine (CAS 130-95-0) [mg/l] (all quantitative)	May-25	
2010055	<b>Grape juice</b>	<input type="checkbox"/> sulphur dioxide (SO <sub>2</sub> ) [mg/l] (all quantitative)	Jun-25	
2010127	<b>Currant juice</b>	<input type="checkbox"/> lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], tin (Sn) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg] (all quantitative)	Aug-25	
2010154	<b>Tomato juice</b>	<input type="checkbox"/> total ergosterol [mg/l] (all quantitative)	Nov-25	
2010359	<b>Sugar substitutes in food</b>	<input type="checkbox"/> Isomalt (sum of GPS and GPM) (anhydrous) [g/100 ml], Lactitol (anhydrous) [g/100 ml], Maltitol (anhydrous) [g/100 ml], Mannitol (anhydrous) [g/100 ml], Sorbitol (anhydrous) [g/100 ml], Xylitol (anhydrous) [g/100 ml] (all quantitative)	Aug-25	
2011161	<b>Furan in coffee</b>	<input type="checkbox"/> furan (CAS 110-00-9) [µg/kg] (all quantitative)	Apr-25	
<b>Alcoholic beverages</b>				
2010133	<b>Beer</b>	<input type="checkbox"/> apparent extract [g/100 g], real extract [g/100 g], alcohol by weight [g/100 g], alcohol by volume [ml/100 ml], original wort [g/100 g], relative density (20 °C/20 °C) [-], bitterness units [IBU], pH value [-] (all quantitative)	Jul-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Cereals, cereal products</b>				<a href="#">Login or register</a>
2010069	<b>Pastries</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], milk fat [g/100 g], sucrose (anhydrous) [g/100 g], starch [g/100 g], propionic acid [mg/kg] (all quantitative)	Nov-25	
2010427	<b>Flour</b>	<input type="checkbox"/> moisture content [g/100 g], crude protein (N x 5,7) [g/100 g], ash [g/100 g], starch [g/100 g], wet gluten [g/100 g], falling number [s], titratable acid [g/100 g] (all quantitative)	Sep-25	
2010431	<b>Butter biscuit</b>	<input type="checkbox"/> ash [g/100 g], dry matter [g/100 g], crude protein (N x 6,25) [g/100 g], total fat [g/100 g], semimicro butyric acid number [-], free butyric acid [g/100 g fat], butyric acid methyl ester [g/100 g fat], milk fat [g/100 g], starch [g/100 g], cholesterol [mg/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g] (all quantitative)	Dec-25	
2010937	<b>Tropane alkaloids in flour</b>	<input type="checkbox"/> At least 3 different tropane alkaloids quantitatively, e.g. atropine, scopolamine, hyoscyamine (all quantitative)	Dec-25	
2010939	<b>Ergot alkaloids in flour</b>	<input type="checkbox"/> At least 3 different ergot alkaloids quantitatively, e.g. ergotamine, ergometrine, ergosine, ergocristine, ergocryptine and ergocornine (all quantitative)	Dec-25	
2010949	<b>Amylose in rice</b>	<input type="checkbox"/> amylose [g/100 g] (all quantitative)	Aug-25	
2010955	<b>Antioxidants in food</b>	<input type="checkbox"/> BHA (CAS 25013-16-5) [mg/kg], BHT (CAS 128-37-0) [mg/kg], Ethoxyquin (CAS 91-53-2) [mg/kg] (all quantitative)	Sep-25	
2011098	<b>Acrylamide in cereal products</b>	<input type="checkbox"/> acrylamide (CAS 79-06-1) [µg/kg] (all quantitative)	Jul-25	
2011114	<b>Pesticides in cereals</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-25	
2011214	<b>PAHs in grain</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [µg/kg], benzo[a]anthracene (CAS 56-55-3) [µg/kg], chrysene (CAS 218-01-9) [µg/kg], benzo[b]fluoranthene (CAS 205-99-2) [µg/kg], sum of PAHs [µg/kg] (all quantitative)	Sep-25	
2010180	<b>Mineral oil in low-fat and starch-rich foodstuff</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	May-25	
2011217	<b>Visual determination of insects in flour</b>	<input type="checkbox"/> quant. determination of insect residues [% (w/w)] (quant.), number of whole insects [number/kg] (quant.), qualitative detection of insects (qual.)	Sep-25	
<b>Infant formula - NEW!</b>				
2011283	<b>MCPD and glycidol in infant milk formula</b>	<input type="checkbox"/> 3-MCPD (sum of 3-MCPD and 3-MCPD fatty acid esters) [µg/kg], glycidyl fatty acid esters, expressed as glycidol [µg/kg] (all quantitative)	Sep-25	
<p>The content of MCPD and glycidol in linseed is subject to legal requirements regarding the maximum level acc. to Regulation (EU) 2023/915. The proficiency test offers you the opportunity to check your analysis with regard to the legal requirements.</p>				
<b>Infant formula</b>				
2010441	<b>Baby porridge powder</b>	<input type="checkbox"/> thiamine (vitamin B1) as thiamine chloride [mg/100 g], riboflavin (vitamin B2) as total vitamin B2 [mg/100 g], pyridoxine (vitamin B6) [mg/100 g], cyanocobalamin (vitamin B12) [µg/100 g], retinol (vitamin A) as all-E-retinol [mg/100 g], L-ascorbic acid [mg/100 g], α-tocopherol (vitamin E) [mg/100 g], folic acid (vitamin B11) [µg/100 g], pantothenic acid (vitamin B5) [mg/100 g], biotin (vitamin B7) [µg/100 g], total ascorbic acid (vitamin C) [mg/100 g] (all quantitative)	Jul-25	
2010447	<b>Milk powder IMF part 1</b>	<input type="checkbox"/> fat [g/100g], crude protein (N x 6,25) [g/100g], ash [g/100g], moisture content [g/100g], retinol (vitamin A) as all-E-retinol [µg/100g], total ascorbic acid (vitamin C) [mg/100g] (all quantitative)	Aug-25	
2010449	<b>Milk powder IMF part 2</b>	<input type="checkbox"/> sodium (Na) [mg/100g], potassium (K) [mg/100g], calcium (Ca) [mg/100g], magnesium (Mg) [mg/100g], phosphorus (P) [mg/100g], iron (Fe) [mg/100g], copper (Cu) [µg/100g], zinc (Zn) [mg/100g], manganese (Mn) [µg/100g] (all quantitative)	Aug-25	
2010957	<b>Bisphenols in infant food</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg] (all quantitative)	Oct-25	
2011096	<b>Residues in infant formula</b>	<input type="checkbox"/> chlorate [mg/kg], perchlorate [mg/kg], phosphonic acid (CAS 13598-36-2) [mg/kg] (all quantitative)	Aug-25	
2011126	<b>PFAS in baby food</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [ng/kg], total perfluorooctanoic acid (CAS 335-67-1) [ng/kg], total perfluorononanoic acid (CAS 375-95-1) [ng/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [ng/kg] (all quantitative)	May-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Declaration nutrition values</b>				<a href="#">Login or register</a>
2010451	<b>Declaration nutrition values with 2 different food stuff</b>	<input type="checkbox"/> energy value [kJ/100 g], protein [g/100 g], carbohydrate [g/100 g], sugar [g/100 g], fat [g/100 g], saturated fatty acids [g/100 g], fibre [g/100 g], salt [g/100 g] (all quantitative)	Sep-25	
<b>Food matrices (other)</b>				
2010197	<b>Delicatessen salad</b>	<input type="checkbox"/> benzoic acid [mg/kg], sorbic acid [mg/kg], Methyl 4-hydroxybenzoate [mg/kg], Ethyl 4-hydroxybenzoate [mg/kg], Propyl 4-hydroxybenzoate [mg/kg], Butyl 4-hydroxybenzoate [mg/kg], n-Butyl 4-hydroxybenzoate [mg/kg], Isobutyl 4-hydroxybenzoate [mg/kg] (all quantitative)	Dec-25	
2010459	<b>Mustard</b>	<input type="checkbox"/> dry matter [g/ 100 g], total acid (pH 8.1) calculated as acetic acid [g/ 100 g], sodium chloride [g/100 g], allyl isothiocyanate [mg/100 g], sulfur dioxide (SO <sub>2</sub> ) [mg/kg], total fat [g/100 g] (all quantitative)	Dec-25	
2010327	<b>Sugar free candies</b>	<input type="checkbox"/> glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], sucrose (anhydrous) [g/100 g], water content [g/100 g] (all quantitative)	Dec-25	
2010347	<b>Pyrrolizidine alkaloids in spices and tea</b>	<input type="checkbox"/> Screening for at least 9 different pyrrolizidine alkaloids, e.g. monocrotaline, heliotrine, retrorsine (all quantitative)	Oct-25	
2010349	<b>Nicotine replacement products</b>	<input type="checkbox"/> nicotine (CAS 54-11-5) [mg/g] (all quantitative)	Aug-25	
2010498	<b>Metals in tobacco</b>	<input type="checkbox"/> lead (Pb), cadmium (Cd), arsenic (As), copper (Cu), zinc (Zn), iron (Fe), mercury (Hg), aluminium (Al), nickel (Ni) (all quantitative)	Aug-25	
2011087	<b>Peanut butter</b>	<input type="checkbox"/> dry matter [g/100 g], ash [g/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], pH value [g/100 g], sodium chloride [g/100 g], total sugar (anhydrous) [g/100 g], fibre [g/100 g] (all quantitative)	Dec-25	
2011095	<b>Ethylene oxide in spices</b>	<input type="checkbox"/> ethylene oxide (CAS 75-21-8) [µg/kg], ethylene chlorohydrin (CAS 107-07-3) [µg/kg] (all quantitative)	Nov-25	
2011160	<b>PAHs in herbs and spices</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [µg/kg], benzo[a]anthracene (CAS 56-55-3) [µg/kg], benzo[b]fluoranthene (CAS 205-99-2) [µg/kg], chrysene (CAS 218-01-9) [µg/kg], sum PAK [µg/kg] (all quantitative)	May-25	
<b>Animal feed</b>				
2010315	<b>Fluoride content in animal feed</b>	<input type="checkbox"/> fluoride [mg/kg] (all quantitative)	Nov-25	
2010351	<b>Metals in animal feed</b>	<input type="checkbox"/> copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], calcium (Ca) [mg/kg], phosphorus (P) [mg/kg], potassium (K) [mg/kg], manganese (Mn) [mg/kg], magnesium (Mg) [mg/kg], sodium (Na) [mg/kg] (all quantitative)	Aug-25	
2010353	<b>Ingredients animal feed (round 1)</b>	<input type="checkbox"/> moisture content [g/100 g], crude protein (N x 6,25) [g/100 g], crude oil [g/100 g], crude ash [g/100 g], crude fiber [g/100 g], total sugar (anhydrous) [g/100 g], lactose (monohydrate) [g/100 g], starch [g/100 g], ash (insoluble in hydrochloric acid) [g/100 g], calcium carbonate [g/100 g] (all quantitative)	Aug-25	
2011166	<b>Ingredients animal feed (round 2)</b>	<input type="checkbox"/> crude protein (N x 6,25) [g/100 g], urea [g/100 g], volatile nitrogenous bases [g/100 g], amino acid content [g/kg], tryptophan (Trp) [g/100 g], phosphorus (P) [g/100 g], sodium chloride [g/100 g], retinol (vitamin A) as all-E-retinol [mg/kg], α-tocopherol (vitamin E) [mg/kg] (all quantitative)	Aug-25	
2010947	<b>Phytase in feed</b>	<input type="checkbox"/> phytase activity [U/g] (all quantitative)	Jul-25	
2011140	<b>PFAS in feed</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexanoic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorodecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [µg/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [µg/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [µg/kg] (all quantitative)	Nov-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Honey and beeswax</b>				<a href="#">Login or register</a>
2010455	<b>Honey 1</b>	<input type="checkbox"/> diastase number acc. to Schade [ - ], proline [mg/kg], hydroxymethylfurfural (CAS 67-47-0) [mg/kg], electrical conductivity [mS/cm], moisture [g/100 g], glycerin [mg/kg], ethanol (CAS 64-17-5) [mg/kg], pH value [ - ] (all quantitative)	Aug-25	
2010708	<b>Honey 2</b>	<input type="checkbox"/> glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], maltose (anhydrous) [g/100 g], sucrose (anhydrous) [g/100 g], turanose (anhydrous) [g/100 g], saccharase activity acc. to Siegenthaler [U/kg], saccharase activity acc. to Hadorn [ - ], free acidity [mmol/kg], ash [g/100 g] (all quantitative)	Dec-25	
2011004	<b>Pesticide residues in honey</b>	<input type="checkbox"/> $\tau$ -fluvalinate (CAS 102851-06-9) [ $\mu$ g/kg], DEET (CAS 134-62-3) [ $\mu$ g/kg], piperonylbutoxide (CAS 51-03-6) [ $\mu$ g/kg], malathion (CAS 121-75-5) [ $\mu$ g/kg], chlorpyrifos (CAS 2921-88-2) [ $\mu$ g/kg] (all quantitative)	Nov-25	
2011006	<b>Pyrrrolizidine alkaloids in honey</b>	<input type="checkbox"/> Screening for at least 9 different pyrrolizidine alkaloids, e.g. monocrotaline, heliotrine, retrorsine (all quantitative)	Jun-25	
2011012	<b>Relative frequency of pollen in honey</b>	<input type="checkbox"/> Relative pollen frequency [%] (all quantitative)	Dec-25	
2011014	<b>Falsification honey</b>	<input type="checkbox"/> Identification of rice syrup, Identification of sugar beet syrup (all qualitative)	Jul-25	
2011018	<b>Falsification beeswax</b>	<input type="checkbox"/> paraffin wax [g/100 g], stearic acid [g/100 g] (all quantitative)	Dec-25	
<b>Cocoa and chocolate</b>				
2010025	<b>Chocolate</b>	<input type="checkbox"/> total fat [g/100 g], milk fat [g/100 g], crude protein (N x 6,25) [g/100 g], water content [g/100 g], lactose (monohydrate) [g/100 g], sucrose (anhydrous) [g/100 g], theobromine [mg/100 g], caffeine [mg/100 g], dry matter [mg/100 g] (all quantitative)	Feb-25	
2010249	<b>Pesticides in chocolate</b>	<input type="checkbox"/> Malathion (CAS 121-75-5) [mg/kg], chlorpyrifos (CAS 2921-88-2) [mg/kg], metalaxyl (CAS 57837-19-1) [mg/kg], glyphosate (CAS 1071-83-6) [mg/kg] (all quantitative)	Oct-25	
2010337	<b>Metals in cocoa and chocolate</b>	<input type="checkbox"/> lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg] (all quantitative)	Oct-25	
2010339	<b>Acrylamide in cocoa and chocolate</b>	<input type="checkbox"/> acrylamide (CAS 79-06-1) [ $\mu$ g/kg] (all quantitative)	Nov-25	
2010590	<b>Mineral oil in cocoa butter and chocolate</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Jul-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Fats, oils and oilseeds - NEW!</b>				<a href="#">Login or register</a>
2011280	<b>Hydrocyanic acid in linseed</b>	<input type="checkbox"/> hydrocyanic acid [mg/kg] (all quantitative)	Jun-25	
<div style="border: 1px solid black; padding: 5px;"> <p>The content of hydrocyanic acid in linseed is subject to legal requirements regarding the maximum level acc. to Regulation (EC) No 1881/2006. The proficiency test offers you the opportunity to check your analysis with regard to the legal requirements.</p> </div>				
2011281	<b>Edible oils - trace elements</b>	<input type="checkbox"/> phosphorus (P) [mg/kg], sodium (Na) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], iron (Fe) [mg/kg], copper (Cu) [mg/kg] (all quantitative)	Jun-25	
<b>Fats, oils and oilseeds</b>				
2011118	<b>Pesticides in hemp seeds</b>	<input type="checkbox"/> Identification of various pesticides (qual.), Quantification of the identified pesticides [mg/kg] (quant.)	Oct-25	
2010457	<b>Edible fat - fatty acid profile</b>	<input type="checkbox"/> fatty acid C 14:0 [g/100 g total fatty acids], fatty acid C 16:1 [g/100 g total fatty acids], fatty acid C 17:0 [g/100 g total fatty acids], fatty acid C 17:1 [g/100 g total fatty acids], fatty acid C 18:0 [g/100 g total fatty acids], fatty acid C 18:1 [g/100 g total fatty acids], fatty acid C 18:2 [g/100 g total fatty acids], fatty acid C 18:3 [g/100 g total fatty acids], fatty acid C 20:0 [g/100 g total fatty acids], fatty acid C 20:1 [g/100 g total fatty acids], fatty acid C 20:2 [g/100 g total fatty acids], fatty acid C 22:0 [g/100 g total fatty acids], fatty acid C 22:1 [g/100 g total fatty acids], fatty acid C 22:2 [g/100 g total fatty acids], fatty acid C 24:0 [g/100 g total fatty acids], fatty acid C 24:1 [g/100 g total fatty acids], Sum of the trans-fatty acids (TFA) [g/100 g total fatty acids] (all quantitative)	Oct-25	
2010710	<b>Edible fat</b>	<input type="checkbox"/> iodine value [g iodine / 100 g fat], acid value [mg KOH/g fat], peroxide value [mEq active oxygen/kg], saponification value [mg KOH/g fat], $\alpha$ -tocopherol [mg/100 g], free fatty acids [mg/100 g], p-anisidine value [AV], Refractive Index [nD], water content [g/100 g] (all quantitative)	Oct-25	
2010157	<b>PAHs in animal and vegetable fats and oils</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [ $\mu$ g/kg], benzo[a]anthracene (CAS 56-55-3) [ $\mu$ g/kg], chrysene (CAS 218-01-9) [ $\mu$ g/kg], benzo[b]fluoranthene (CAS 205-99-2) [ $\mu$ g/kg], sum of PAHs [ $\mu$ g/kg] (all quantitative)	Oct-25	
2010500	<b>MCPD and glycidol in edible oil</b>	<input type="checkbox"/> 3-MCPD (sum of 3-MCPD and 3-MCPD fatty acid esters) [ $\mu$ g/kg], glycidyl fatty acid esters, expressed as glycidol [ $\mu$ g/kg] (all quantitative)	Nov-25	
2010941	<b>Cannabinoids in hemp seeds</b>	<input type="checkbox"/> Cannabidiol (CBD) (CAS 13956-29-1) [mg/kg], Delta-9-tetrahydrocannabinol (d9-THC) (CAS 1972-08-03) [mg/kg] (all quantitative)	Jun-25	
2010959	<b>Phthalates in edible oil</b>	<input type="checkbox"/> DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIPB (CAS 84-69-5) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIHP (CAS 71888-89-6) [mg/kg], DMEP (CAS 117-82-8) [mg/kg] (all quantitative)	Oct-25	
2011021	<b>Rheology of edible fat (DIN 53019)</b>	<input type="checkbox"/> viscosity (all quantitative)	Jun-25	
2011092	<b>Alternaria toxins in vegetable oils</b>	<input type="checkbox"/> alternariol (AOH) (CAS 641-38-3) [ $\mu$ g/kg], alternariol monomethyl ether (AME) (CAS 23452-05-3) [ $\mu$ g/kg], tenuazonic acid (TEA) (CAS 610-88-8) [ $\mu$ g/kg], tentoxin (TEN) (CAS 28540-82-1) [ $\mu$ g/kg] (all quantitative)	Nov-25	
2011094	<b>Pesticides in oilseeds</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Oct-25	
2010320	<b>Mineral oil in edible fats</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Jul-25	
2011135	<b>Mineral oil in edible oils</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Dec-25	
2011150	<b>MOAH - quantification acc. number of aromatic rings</b>	<input type="checkbox"/> Monoaromatic MOAH [mg/kg], Diaromatic MOAH [mg/kg], Tri/Polyaromatic MOAH [mg/kg], MOAH C10-C50 [mg/kg], Total Terpenes and/or other natural interferences [mg/kg], PP PO(S)H [mg/kg], PE PO(S)H [mg/kg], Polyalphaolefins (PAO) [mg/kg], MOSH C10-C50 [mg/kg], Total Hydrocarbons (MOSH Fraction) [mg/kg] (all quantitative)	Sep-25	

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# Proficiency testing - organoleptic

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Nonalcoholic beverages</b>				<a href="#">Login or register</a>
3010000	<b>Water (ranking test, basic tastes) 1</b>	<input type="checkbox"/> organoleptic testing - basic taste (2 basic tastes)	Feb-25	
3010028	<b>Water (ranking test, basic tastes) 2</b>	<input type="checkbox"/> organoleptic testing - basic taste (2 basic tastes)	Jun-25	
3010030	<b>Water (ranking test, basic tastes) 3</b>	<input type="checkbox"/> organoleptic testing - basic taste (2 basic tastes)	Nov-25	
3010006	<b>Water (triangle test, basic taste)</b>	<input type="checkbox"/> organoleptic testing - triangle test basic taste	Jul-25	
3010055	<b>Fruit juice (threshold value examination, flavour taint)</b>	<input type="checkbox"/> threshold value	Dec-25	
3010032	<b>Fruit juice (triangle test, flavour taint)</b>	<input type="checkbox"/> organoleptic testing - triangle test flavour	Sep-25	
3010008	<b>Drinking water (TON, TFN) (minimum number of participants: 3 assessors)</b>	<input type="checkbox"/> threshold odour number (TON), threshold flavour number (TFN)	Mar-25	
3010010	<b>Apple juice (triangle test, basic taste)</b>	<input type="checkbox"/> organoleptic testing - triangle test basic taste	Jun-25	
3010016	<b>Coffee infusion (triangle test, flavour taint)</b>	<input type="checkbox"/> organoleptic testing - triangle test flavour	Jul-25	
3010025	<b>Fruit preparation (simple descriptive testing)</b>	<input type="checkbox"/> Visual (Appearance), Olfactory (Smell/Odour), Gustatory (Taste/Flavour), Texture/Consistency/Mouthfeel	Sep-25	
3010031	<b>Tea (simple descriptive testing)</b>	<input type="checkbox"/> Visual (Appearance), Olfactory (Smell/Odour), Gustatory (Taste/Flavour), Texture/Consistency/Mouthfeel	Nov-25	
3010029	<b>Plant drink (triangle test, flavour taint)</b>	<input type="checkbox"/> organoleptic testing - triangle test flavour	May-25	
<b>Alcoholic beverages</b>				
3010034	<b>Beer (ranking test, Diacetyl)</b>	<input type="checkbox"/> organoleptic testing - diacetyl	Oct-25	
3010020	<b>Beer (triangle test, Diacetyl)</b>	<input type="checkbox"/> organoleptic testing - diacetyl	Oct-25	
<b>Meat products</b>				
3010018	<b>Sausage (simple descriptive testing)</b>	<input type="checkbox"/> Visual (Appearance), Olfactory (Smell/Odour), Gustatory (Taste/Flavour), Texture/Consistency/Mouthfeel	Jul-25	
	possible basic tastes	sweet, sour, bitter, salty		
	possible flavours (except flavour taint)	strawberry, cherry, vanilla, peach, lemon		

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# Proficiency testing - organoleptic

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Food stuff (other)</b>				<a href="#">Login or register</a>
3010049	<b>Chocolate (simple descriptive testing)</b>	<input type="checkbox"/> Visual (Appearance), Olfactory (Smell/Odour), Gustatory (Taste/Flavour), Texture/Consistency/Mouthfeel	May-25	
3010051	<b>Chocolate (profile testing)</b>	<input type="checkbox"/> visual: brightness of the brown color (light - dark) [cm], olfactory: cocoa odour (little - much) [cm], gustatory: cocoa flavour (little - much) [cm], gustatory: sweetness (very sweet - little sweet) [cm], gustatory: bitterness (little bitter - very bitter) [cm], texture: hardness (low degree of hardness - high degree of hardness) [cm], mouthfeel: melting quality (fast melting - slow melting) [cm], mouthfeel: adstringency (little - much) [cm]	Nov-25	
3010004	<b>Tuna (triangle test)</b>	<input type="checkbox"/> organoleptic testing - triangle test	Jun-25	
3010054	<b>Texture test (triangle test)</b>	<input type="checkbox"/> organoleptic testing - triangle test	Apr-25	
3010007	<b>Colour check (triangle test)</b>	<input type="checkbox"/> organoleptic testing - triangle test	Apr-25	
<b>Milk products (other)</b>				
3010037	<b>Yoghurt (ranking test, basic tastes)</b>	<input type="checkbox"/> organoleptic testing - basic taste (2 basic tastes)	Nov-25	
3010039	<b>Yoghurt (triangle test, basic taste)</b>	<input type="checkbox"/> organoleptic testing - triangle test basic taste	Nov-25	
3010041	<b>Yoghurt (ranking test, flavours)</b>	<input type="checkbox"/> organoleptic testing - flavour (2 flavours)	Nov-25	
3010043	<b>Yoghurt (triangle test, flavour)</b>	<input type="checkbox"/> organoleptic testing - triangle test flavour	Nov-25	
3010013	<b>Milk (triangle test, flavour taint)</b>	<input type="checkbox"/> organoleptic testing - triangle test flavour	Apr-25	
possible basic tastes		sweet, sour, bitter, salty		
possible flavours (except flavour taint)		strawberry, cherry, vanilla, peach, lemon		

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Milk and cream - NEW!</b>					<a href="#">Login or register</a>
2011314	<b>Detection B.cereus milk</b>	<input type="checkbox"/> B.cereus qualitative (all qualitative)	<b>risk group 2</b>	May-25	
<b>Milk and cream</b>					
2010013	<b>E.coli milk 1</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010463	<b>E.coli milk 2</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010033	<b>Enterobacteriaceae milk 1</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010465	<b>Enterobacteriaceae milk 2</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010089	<b>Detection Campylobacter spp. milk</b>	<input type="checkbox"/> Campylobacter spp. (all qualitative)	<b>risk group 2</b>	May-25	
2010467	<b>Aerobic spores milk</b>	<input type="checkbox"/> aerobic spores [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010546	<b>Psychrotrophic bacteria milk</b>	<input type="checkbox"/> psychrotrophic total count (7°C) [cfu/g], psychrotrophic total count (21°C) [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010604	<b>EHEC O157 milk</b>	<input type="checkbox"/> EHEC O157 (all qualitative)	<b>risk group 3 **</b>	Jul-25	
2010608	<b>EHEC Screening milk</b>	<input type="checkbox"/> EHEC Screening (all qualitative)	<b>risk group 3 **</b>	Jul-25	
2010612	<b>Total count in milk 1</b>	<input type="checkbox"/> aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010924	<b>Yeasts in milk</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Aug-25	
2010944	<b>Novovirus milk</b>	<input type="checkbox"/> Norovirus (all qualitative)	<b>risk group 2</b>	Aug-25	
2010045	<b>Milk (residues)</b>	<input type="checkbox"/> Chloramphenicol (CAS 56-75-7) [µg/kg], PCB 101 (CAS 37680-73-2) [(mg/kg) fat], trichlormethane (CAS 67-66-3) [mg/kg], aflatoxin M1 [µg/kg], Streptomycin (CAS 57-92-1) [µg/l], tetracycline (CAS 60-54-8) [µg/kg] (all quantitative)		Apr-25	
2010951	<b>Inhibitors in milk</b>	<input type="checkbox"/> Tetracycline (CAS 60-54-8) [µg/kg], Amoxicillin (CAS 26787-78-0) [µg/kg], Ceftriaxone (CAS 73384-59-5) [µg/kg], Ciprofloxacin (CAS 85721-33-1) [µg/kg] (all quantitative)		Dec-25	
<b>Milk products (other)</b>					
2010317	<b>Characteristic microorganisms yoghurt</b>	<input type="checkbox"/> Lactobacillus bulgaricus [cfu/g], Streptococcus thermophilus [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
<b>Cheese</b>					
2010111	<b>E.coli cheese</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jul-25	
2010176	<b>Yeasts cheese</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010178	<b>Moulds cheese</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010137	<b>Listeria cheese</b>	<input type="checkbox"/> L. monocytogenes qualitative (all qualitative)	<b>risk group 2</b>	Aug-25	
2010469	<b>Coagulase-positive Staphylococcus cheese</b>	<input type="checkbox"/> coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Jul-25	
2010471	<b>Enterobacteriaceae cheese</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jul-25	
2010156	<b>B.cereus processed cheese</b>	<input type="checkbox"/> B.cereus [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	May-25	
<b>Ice-cream</b>					
2010548	<b>Enterobacteriaceae ice-cream</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jul-25	
2010550	<b>Salmonella spp. ice-cream</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Jul-25	
2010552	<b>E.coli ice-cream</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jul-25	
2010554	<b>L.monocytogenes ice-cream</b>	<input type="checkbox"/> L. monocytogenes qualitative (all qualitative)	<b>risk group 2</b>	Jul-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Milk powder</b>					<a href="#">Login or register</a>
2010160	<b>Coliform bacteria milk powder</b>	<input type="checkbox"/> Coliforms [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	May-25	
2010063	<b>Yeasts milk powder 1</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jan-25	
2010473	<b>Yeasts milk powder 2</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Sep-25	
2010065	<b>Moulds milk powder 1</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Feb-25	
2010475	<b>Moulds milk powder 2</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010477	<b>Enterobacteriaceae milk powder</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jan-25	
2010479	<b>E.coli milk powder</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Jan-25	
2010481	<b>Lactobacillus milk powder</b>	<input type="checkbox"/> lactobacilli (microaerophilic) [cfu/g], aerobic total count [cfu/g], lactobacilli (aerobic) [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010483	<b>Shigella spp. milk powder</b>	<input type="checkbox"/> Shigella spp. (all qualitative)	<b>risk group 2</b>	May-25	
2010095	<b>Enterococcus milk powder</b>	<input type="checkbox"/> Enterococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Mar-25	
2010057	<b>Clostridia milk powder</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic, sulfite-reducing spores [cfu/g], C.perfringens [cfu/g] (all quantitative)	<b>risk group 2</b>	Jun-25	
2010109	<b>B.cereus milk powder</b>	<input type="checkbox"/> B.cereus [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	May-25	
2010081	<b>Cronobacter spp. milk powder</b>	<input type="checkbox"/> Cronobacter spp. (all qualitative)	<b>risk group 2</b>	Mar-25	
2010148	<b>Salmonella spp. milk powder 1</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Mar-25	
2010485	<b>Salmonella spp. milk powder 2</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Nov-25	
2010083	<b>Coagulase-positive Staphylococcus milk powder</b>	<input type="checkbox"/> coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Mar-25	
2010059	<b>Listeria milk powder 1</b>	<input type="checkbox"/> L. monocytogenes [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), L. monocytogenes qualitative (qual.)	<b>risk group 2</b>	Jan-25	
2010153	<b>Listeria milk powder 2</b>	<input type="checkbox"/> L. monocytogenes [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), L. monocytogenes qualitative (qual.)	<b>risk group 2</b>	Aug-25	
2010534	<b>Thermophilic bacteria (55 °C) milk powder</b>	<input type="checkbox"/> thermophilic aerobic total count (55°C, vegetative) [cfu/g], thermoresistant spores of aerobic, thermophilic bacteria [cfu/g] (all quantitative)	<b>risk group 1</b>	Sep-25	
2010930	<b>Coagulase-positive Staphylococcus milk powder qualitative</b>	<input type="checkbox"/> coagulase-positive Staphylococcus qualitative (all qualitative)	<b>risk group 2</b>	Mar-25	
2010934	<b>Anaerobic, mesophilic spores milk powder</b>	<input type="checkbox"/> anaerobic mesophile spores [cfu/g], anaerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Sep-25	
2010938	<b>Pseudomonas spp. milk powder qualitative</b>	<input type="checkbox"/> Pseudomonas spp. qualitative (all qualitative)	<b>risk group 2</b>	Jun-25	
2010940	<b>Clostridia milk powder qualitative</b>	<input type="checkbox"/> Clostridia spp. (all qualitative)	<b>risk group 2</b>	Jun-25	
2011162	<b>Aflatoxin M1 in milk powder</b>	<input type="checkbox"/> aflatoxin M1 [µg/kg] (all quantitative)		Oct-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Meat products - NEW!</b>					<a href="#">Login or register</a>
2011313	<b>Enumeration Campylobacter spp. poultry</b>	<input type="checkbox"/> Campylobacter spp. quantitative [CFU/g] (all quantitative)	<b>risk group 2</b>	May-25	
<b>Meat products</b>					
2010035	<b>E.coli ground meat 1</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Feb-25	
2010499	<b>E.coli ground meat 2</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010039	<b>Enterobacteriaceae ground meat 1</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Feb-25	
2010501	<b>Enterobacteriaceae ground meat 2</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Nov-25	
2010142	<b>Coagulase-positive Staphylococcus ground meat</b>	<input type="checkbox"/> coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Mar-25	
2010140	<b>Salmonella spp. ground meat 1</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Mar-25	
2010503	<b>Salmonella spp. ground meat 2</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Nov-25	
2010174	<b>Pseudomonas spp. ground meat</b>	<input type="checkbox"/> Pseudomonas spp. [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Jun-25	
2010151	<b>Listeria ground meat 1 qualitative</b>	<input type="checkbox"/> L. monocytogenes qualitative (all qualitative)	<b>risk group 2</b>	Mar-25	
2010505	<b>Listeria ground meat 2 qualitative</b>	<input type="checkbox"/> L. monocytogenes qualitative (all qualitative)	<b>risk group 2</b>	Aug-25	
2010507	<b>Listeria ground meat quantitative</b>	<input type="checkbox"/> L. monocytogenes [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Aug-25	
2010212	<b>Lactobacillus ground meat</b>	<input type="checkbox"/> lactobacilli (aerobic) [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Mar-25	
2010146	<b>Detection Campylobacter spp. poultry</b>	<input type="checkbox"/> Campylobacter spp. (all qualitative)	<b>risk group 2</b>	May-25	
2010936	<b>Coliforme bacteria ground meat</b>	<input type="checkbox"/> Coliforms [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Aug-25	
2010942	<b>Clostridia ground meat</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic, sulfite-reducing spores [cfu/g], C.perfringens [cfu/g] (all quantitative)	<b>risk group 2</b>	Jun-25	
2010945	<b>Allergens in meat products</b>	<input type="checkbox"/> egg, peanut, nuts, celery, mustard (all quantitative)		Jul-25	
2010263	<b>Beef, pork, horse</b>	<input type="checkbox"/> Identification of species (qual.), Relative amount beef [%] (quant.), Relative amount pork [%] (quant.), Relative amount horse [%] (quant.)		Dec-25	
<b>Simulated microbiological evaluation</b>					
2011198	<b>Simulated evaluation aerobic total count</b>	<input type="checkbox"/> Simulated colony enumeration, Calculation of microbial count (all quantitative)		Jul-25	
2011199	<b>Simulated evaluation aerobic spore-forming bacteria</b>	<input type="checkbox"/> Simulated colony enumeration, Calculation of microbial count (all quantitative)		Jul-25	
2011200	<b>Simulated evaluation yeasts</b>	<input type="checkbox"/> Simulated colony enumeration, Calculation of microbial count (all quantitative)		Jul-25	
2011201	<b>Simulated evaluation mould</b>	<input type="checkbox"/> Simulated colony enumeration, Calculation of microbial count (all quantitative)		Jul-25	
2011202	<b>Simulated evaluation lactic acid bacteria</b>	<input type="checkbox"/> Simulated colony enumeration, Calculation of microbial count (all quantitative)		Jul-25	
2011203	<b>Simulated evaluation Sulfite-reducing clostridia</b>	<input type="checkbox"/> Simulated colony enumeration, Calculation of microbial count (all quantitative)		Jul-25	
2011204	<b>Simulated evaluation E.coli and Coliforms</b>	<input type="checkbox"/> Simulated colony enumeration E.coli, Calculation of microbial count E.coli, Simulated colony enumeration Coliforms, Calculation of microbial count Coliforms (all quantitative)		Jul-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Egg products</b>					<a href="#">Login or register</a>
2010495	<b>Enterobacteriaceae in egg products</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Dec-25	
2010530	<b>Salmonella spp. egg products</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Dec-25	
2010532	<b>E.coli egg products</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Dec-25	
2010706	<b>Antibiotics in liquid egg</b>	<input type="checkbox"/> Chloramphenicol (CAS 56-75-7) [µg/kg], Tetracycline (CAS 60-54-8) [µg/kg], Sulfadimidine (CAS 57-68-1) [µg/kg], Nitrofurantoin (CAS 67-20-9) [µg/kg] (all quantitative)		May-25	
<b>Fish &amp; seafood</b>					
2010509	<b>Yersinia enterocolitica seafood</b>	<input type="checkbox"/> Yersinia enterocolitica (all qualitative)	<b>risk group 2</b>	May-25	
2010511	<b>Pathogenic Vibrio spp. seafood</b>	<input type="checkbox"/> Vibrio parahaemolyticus (all qualitative)	<b>risk group 2</b>	May-25	
2010540	<b>Salmonella spp. Seafood</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	May-25	
<b>Infant formula</b>					
2010521	<b>Infant food variation 1</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g] (quant.), TVC 30°C [cfu/g] (quant.), yeasts [cfu/g] (quant.), moulds [cfu/g] (quant.), qualitative testing (qual.)	<b>risk group 2</b>	Aug-25	
2010182	<b>Bifidobacteria infant food</b>	<input type="checkbox"/> Bifidobacteria [cfu/g] (all quantitative)	<b>risk group 1</b>	Jul-25	
2010273	<b>Enterobacteriaceae infant formula (powder) qualitative</b>	<input type="checkbox"/> Enterobacteriaceae (all qualitative)	<b>risk group 1</b>	Aug-25	
2010261	<b>Milk powder IMF allergens</b>	<input type="checkbox"/> gliadin [mg/kg], lactose (monohydrate) [mg/100g], β-lacto-globulin [mg/kg], soy protein [mg/kg], casein [mg/kg] (all quantitative)		Oct-25	
<b>Food matrices (other)</b>					
2010513	<b>Listeria convenience products</b>	<input type="checkbox"/> L. monocytogenes qualitative (all qualitative)	<b>risk group 2</b>	Aug-25	
2010515	<b>Salmonella spp. spice powder</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Dec-25	
2010542	<b>Salmonella spp. Herbs</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Dec-25	
2010313	<b>Porcine DNA in Candy</b>	<input type="checkbox"/> Identification of the animal species pork (all qualitative)		Dec-25	
2010588	<b>Porcine and beef DNA in gelatine</b>	<input type="checkbox"/> Identification of the animal species pork, Identification of the animal species beef (all qualitative)		Dec-25	
2011090	<b>Aflatoxins in nuts</b>	<input type="checkbox"/> aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Oct-25	
2011091	<b>Aflatoxins in spices</b>	<input type="checkbox"/> aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Dec-25	
<b>Animal feed - NEW!</b>					
2011306	<b>Listeria spp. in animal feed</b>	<input type="checkbox"/> Listeria spp qualitative (all qualitative)	<b>risk group 2</b>	Dec-25	
<b>Animal feed</b>					
2010188	<b>Clostridia animal feed</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g], lactobacilli (anaerobic) [cfu/g], anaerobic mesophilic sulfite-reducing spores [cfu/g], anaerobic mesophilic total spores (nonselective) [cfu/g] (all quantitative)	<b>risk group 2</b>	Aug-25	
2010519	<b>Salmonella spp. in feed stuff</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Dec-25	
2011163	<b>Animal feed (GMO)</b>	<input type="checkbox"/> Quantitative detection of transgenic plants (construct or event-specific methods possible) [%] (quant.), Qualitative detection of various screening elements (qual.)		Nov-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Fruit &amp; vegetables products</b>					<a href="#">Login or register</a>
2010043	<b>Yeasts fruit preparation</b>	<input type="checkbox"/> yeasts [cfu/g] (quant.), yeasts qualitative (qual.)	<b>risk group 1</b>	Aug-25	
2010101	<b>Moulds fruit preparation</b>	<input type="checkbox"/> moulds [cfu/g] (quant.), moulds qualitative (qual.)	<b>risk group 1</b>	Aug-25	
2010487	<b>Listeria vegetables qualitative</b>	<input type="checkbox"/> L. monocytogenes qualitative (all qualitative)	<b>risk group 2</b>	Aug-25	
2010489	<b>Listeria vegetables quantitative</b>	<input type="checkbox"/> L. monocytogenes [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 2</b>	Aug-25	
2010536	<b>Osmophilic yeasts sugar solution</b>	<input type="checkbox"/> osmophilic yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010538	<b>Osmophilic moulds sugar solution</b>	<input type="checkbox"/> osmophilic moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010563	<b>Yeasts dates</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010565	<b>Moulds dates</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
<b>Nonalcoholic beverages</b>					
2010097	<b>E.coli fruit juice</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010199	<b>Spoiling agents in fruit juice concentrate &amp; compounds 1</b>	<input type="checkbox"/> spoiling agents quantitative [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), spoiling agents qualitative (qual.)	<b>risk group 1</b>	Apr-25	
2010491	<b>Spoiling agents in fruit juice concentrate &amp; compounds 2</b>	<input type="checkbox"/> spoiling agents quantitative [cfu/g] (quant.), aerobic total count [cfu/g] (quant.), spoiling agents qualitative (qual.)	<b>risk group 1</b>	Nov-25	
2010493	<b>Alicyclobacillus spp. fruit juice concentrate &amp; compounds</b>	<input type="checkbox"/> Alicyclobacillus spp. (all qualitative)	<b>risk group 1</b>	Oct-25	
2010592	<b>Yeasts fruit juice concentrate</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010594	<b>Moulds fruit juice concentrate</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010596	<b>Lactic acid bacteria fruit juice</b>	<input type="checkbox"/> lactic acid bacteria (aerobic) [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010598	<b>Acetic acid bacteria fruit juice concentrate</b>	<input type="checkbox"/> acetic acid bacteria [cfu/g], aerobic total count [cfu/g] (all quantitative)	<b>risk group 1</b>	Apr-25	
<b>Alcoholic beverages</b>					
2010275	<b>Dekkera bruxellensis wine qualitative</b>	<input type="checkbox"/> Dekkera bruxellensis qualitative (all qualitative)	<b>risk group 1</b>	Aug-25	
2011142	<b>Dekkera bruxellensis beer qualitative</b>	<input type="checkbox"/> Dekkera bruxellensis qualitative (all qualitative)	<b>risk group 1</b>	Aug-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Mineral water and table water</b>					<a href="#">Login or register</a>
2010674	<b>Aerobic total count mineral water and table water</b>	<input type="checkbox"/> aerobic total count 37°C [KbE/ml], aerobic total count 20°C [KbE/ml] (all quantitative)		Apr-25	
2010676	<b>Streptococci (faecal) mineral water and table water</b>	<input type="checkbox"/> streptococci (faecal) qualitative (all qualitative)		Oct-25	
2010680	<b>Pseudomonas aeruginosa mineral water and table water</b>	<input type="checkbox"/> Ps.aeruginosa qualitative (all qualitative)		Oct-25	
2010952	<b>Sulfite-reducing, spore-forming anaerobes mineral water</b>	<input type="checkbox"/> sulfite-reducing, spore-forming anaerobes qualitative (all qualitative)		Aug-25	
2010134	<b>Coliforme bacteria mineral water and table water</b>	<input type="checkbox"/> Coliforme qualitative (all qualitative)		Oct-25	
2010138	<b>E.coli mineral water and table water</b>	<input type="checkbox"/> E.coli qualitative (all qualitative)		Oct-25	
<b>Cereals, cereal products</b>					
2011167	<b>Mycotoxins in corn</b>	<input type="checkbox"/> aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], ochratoxin A [µg/kg], deoxynivalenol (DON) [µg/kg], fumonisin B1 [µg/kg], zearalenone [µg/kg] (all quantitative)		Nov-25	
2010141	<b>Corn (GMO)</b>	<input type="checkbox"/> detection of screening elements P-35S, T-NOS and pat (qual.), relative amount Bt-11 [%] (quant.), relative amount MON810 [%] (quant.)		Nov-25	
2010143	<b>Rice (GMO)</b>	<input type="checkbox"/> detection of screening elements P-35S, T-NOS and bar (qual.), relative amount LLRice52 [%] (quant.)		Nov-25	
2010429	<b>Gluten</b>	<input type="checkbox"/> gluten [mg/kg] (all quantitative)		Nov-25	
2011108	<b>Qualitative detection of insects in flour</b>	<input type="checkbox"/> identification of the animal species Tenebrio molitor (all qualitative)		Nov-25	
<b>Fats, oils and oilseeds</b>					
2010720	<b>Soy (GMO)</b>	<input type="checkbox"/> Detection of screening elements P-35S, T-NOS and P-FMV (qual.), relative amount GTS 40-3-2 [%] (quant.), relative amount MON 89788 [%] (quant.)		Nov-25	
2010145	<b>Canola (GMO)</b>	<input type="checkbox"/> Detection of screening elements T-NOS, CTP2-CP4EPSPS and P-FMV (qual.), relative amount 73496 [%] (quant.), relative amount GT73 [%] (quant.)		Dec-25	
<b>Honey and beeswax</b>					
2011002	<b>Antibiotics in honey</b>	<input type="checkbox"/> chloramphenicol (CAS 56-75-7) [µg/kg], streptomycin (CAS 57-92-1) [µg/kg], sulfadimidine (CAS 57-68-1) [µg/kg], tetracycline (CAS 60-54-8) [µg/kg] (all quantitative)		Jun-25	
2011010	<b>GMOs in honey</b>	<input type="checkbox"/> detection of screening elements P-35S, T-NOS and P-FMV (all qualitative)		Jul-25	
<b>Cocoa and chocolate</b>					
2010247	<b>Aflatoxins in chocolate</b>	<input type="checkbox"/> aflatoxin B1 [µg/kg], aflatoxin B2 [µg/kg], aflatoxin G1 [µg/kg], aflatoxin G2 [µg/kg], total aflatoxin content [µg/kg] (all quantitative)		Sep-25	
2010144	<b>Salmonella spp. chocolate</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)		Mar-25	
<b>Vegan and vegetarian substitutes</b>					
2011165	<b>Identification of plant based food</b>	<input type="checkbox"/> identification soy, identification beans, identification lentils (all qualitative)		Oct-25	
2011164	<b>Vegan food identification (ISO 23662)</b>	<input type="checkbox"/> identification of vegan foods (all qualitative)		Oct-25	

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# registration form proficiency testing



Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**For questions and suggestions do not hesitate to contact the DRRR-team!**

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[info@DRRR.de](mailto:info@DRRR.de)

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**For proficiency testing schemes labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG) in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancellation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

- This registration is permanent-registration and valid until my cancellation
- An offer with the total costs is needed
- A Purchase order from the purchasing department will follow

Order by e-mail:

[info@DRRR.de](mailto:info@DRRR.de)

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

_____
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<b>DRRR-customer number</b>
<b>company</b>
<b>additional line</b>
<b>contact person</b>
<b>street</b>
<b>post code / city</b>
<b>country</b>
<b>email</b>
<b>VAT-ID (EU)</b>

Date:

**Deutsches Referenzbüro**  
für Ringversuche und Referenzmaterialien GmbH  
Reinhartser Straße 31 | 87437 Kempten  
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99  
[www.DRRR.de](http://www.DRRR.de) | [info@DRRR.de](mailto:info@DRRR.de)

# reference material

## Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

### Description reference material

## Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivative reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

### Profit with our high quality standards for your lab work

## Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

**Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.**

## Identification

The reference materials listed on the following pages have specific article numbers to identify the materials. To supply our customers with consistently high quality the DRRR-reference materials will be replaced regularly by corresponding materials during the year.

Currently available reference materials and its corresponding reference values will be sent on request. We reserve our right to send you always the latest materials.

### Availability and order request of reference material

## long-term calibration material (LKM)



**Eine Marke der DRRR GmbH  
und der LUFA Nord-West**

### The brand STANDARON®

The DRRR has concluded a far reaching cooperation with the IfL. The main focus of this cooperation is the development and commercialisation of long term calibration materials for the food economy. The developed materials were merchandised with the name **STANDARON®**.

**STANDARON® long-term calibration materials (LKM) for raw milk, raw cream and pasteurised milk will be used for the calibration of IR instruments.**

### Reference system for raw milk analysis

With the cooperation arises a range of services that offers not only regional but also national both in North and South Germany a competent reference system for raw milk analysis. Therewith it also offers more advantages and reliabilities for our international customers. The cooperation could already prove its competence at the new introduced STANDARON® raw cream materials. The quality advantage of the materials has been clearly confirmed at linearity, precision and stability. Besides standard materials is a focus of the cooperation to produce tailor-made, customer-oriented materials which are specially designed to cover individual production processes.

**The reference values of STANDARON® materials were defined by selected "reference laboratories". These laboratories are proved the requirements according to DIN EN ISO/IEC 17025:2017.**

### Questions about the application

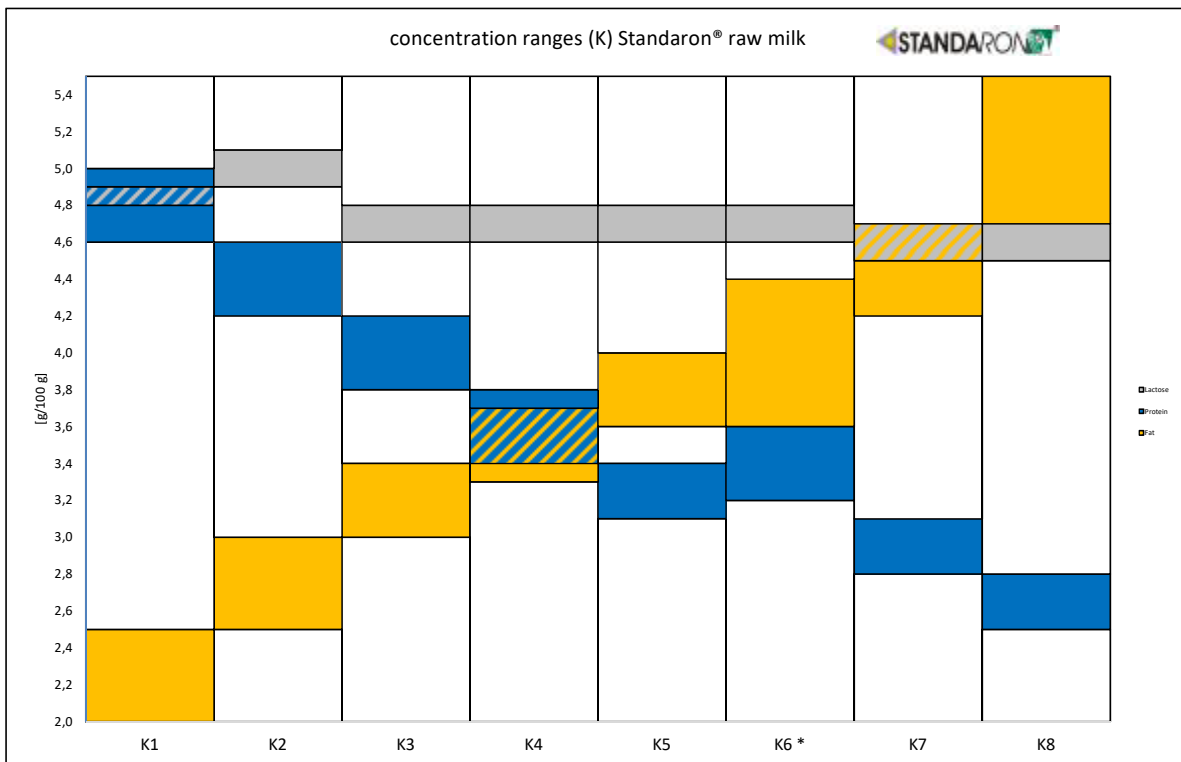
If you need any advice to assure your calibration do not hesitate to contact us.

**Application of the materials**

Please use the order from on page 42.

LKM-type	Art. No.	fat	protein	lactose	dry matter	freezing point	urea	packaging unit	prices
		<i>Röse-Gottlieb</i>	<i>Kjeldahl</i>	<i>enzym.</i>	102 °C	<i>cryoscopy</i>	<i>enzym.</i>		
		g/100g	g/100g	g/100g	g/100g	m°C	mg/kg		
LKM RO K1	1141021	2,0 - 2,5 %	4,6 - 5,0 %	4,8 - 4,9 %	available reference material and the corresponding reference values are available on request			50 ml	20 €
LKM RO K2	1141022	2,5 - 3,0 %	4,2 - 4,6 %	4,9 - 5,1 %					
LKM RO K3	1141023	3,0 - 3,4 %	3,8 - 4,2 %	4,6 - 4,8 %					
LKM RO K4	1141024	3,3 - 3,7 %	3,4 - 3,8 %	4,6 - 4,8 %					
LKM RO K5	1141025	3,6 - 4,0 %	3,1 - 3,4 %	4,6 - 4,8 %					
LKM RO K6 *	1141026	3,6 - 4,4 %	3,2 - 3,6 %	4,6 - 4,8 %					
LKM RO K7	1141027	4,2 - 4,7 %	2,8 - 3,1 %	4,5 - 4,7 %					
LKM RO K8	1141028	4,7 - 5,5 %	2,5 - 2,8 %	4,5 - 4,7 %					

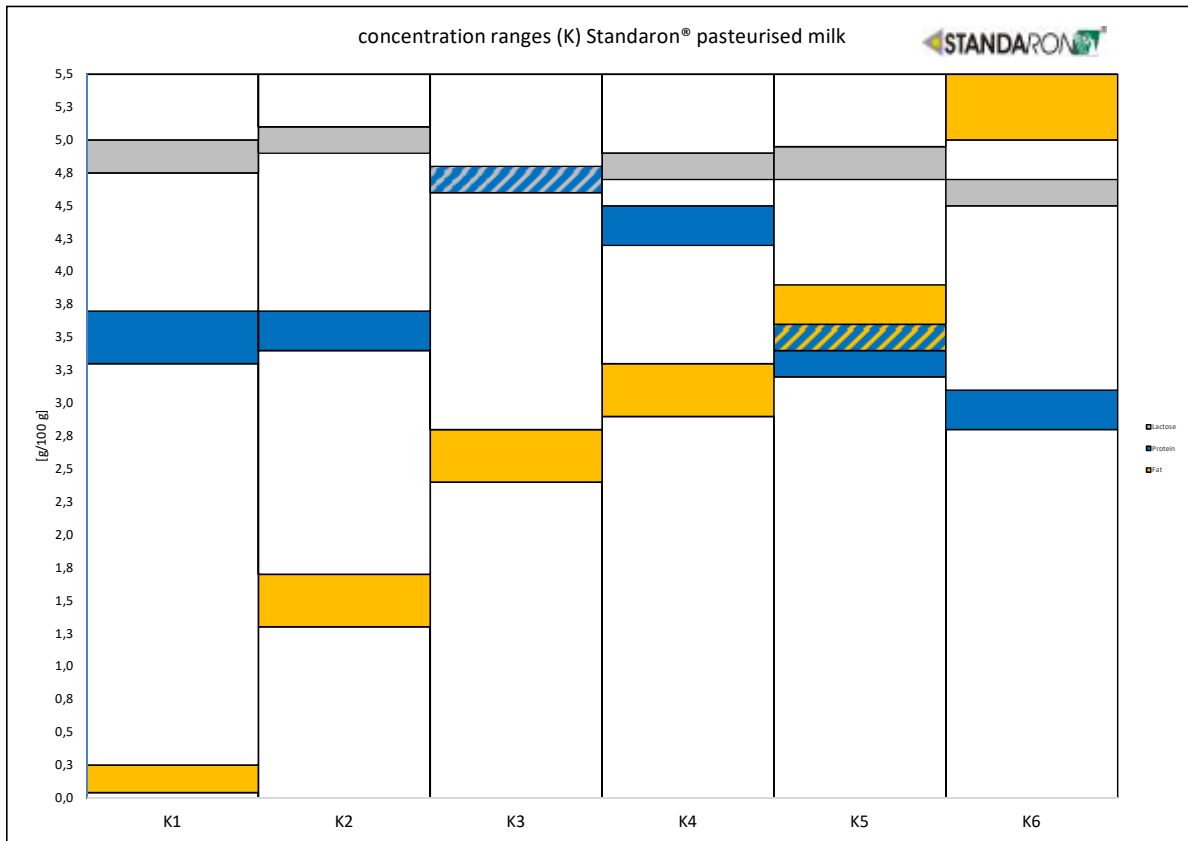
\* unmodified raw milk, higher variances possible



# STANDARON® - overview pasteurized milk

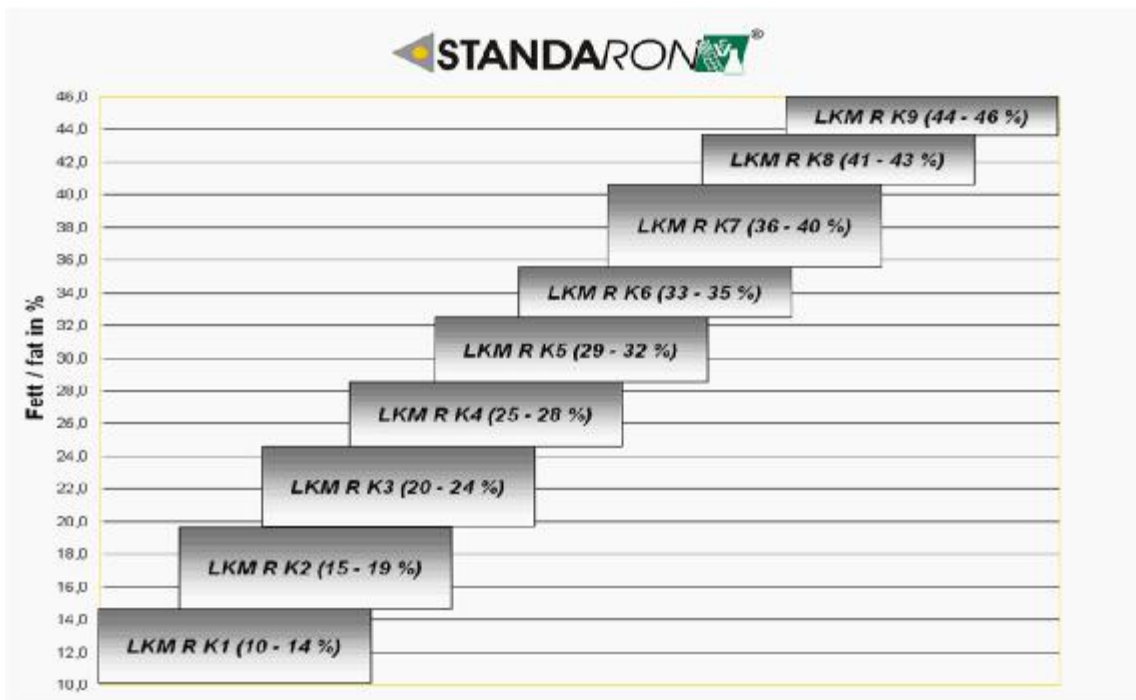
Please use the order from on page 42.

LKM-type	Art. No.	fat	protein	lactose	dry matter	freezing point	packaging unit	prices
		<i>Röse-Gottlieb</i>	<i>Kjeldahl</i>	<i>enzym.</i>	102 °C	<i>cryoscopy</i>		
		g/100g	g/100g	g/100g	g/100g	m°C		
LKM PAM K1	1141001	2,0 - 2,5 %	4,6 - 5,0 %	4,8 - 4,9 %	available reference material and the corresponding reference values are available on request	50 ml	18 €	
LKM PAM K2	1141002	2,5 - 3,0 %	4,2 - 4,6 %	4,9 - 5,1 %				
LKM PAM K3	1141003	3,0 - 3,4 %	3,8 - 4,2 %	4,6 - 4,8 %				
LKM PAM K4	1141004	3,3 - 3,7 %	3,4 - 3,8 %	4,6 - 4,8 %				
LKM PAM K5	1141005	3,6 - 4,0 %	3,1 - 3,4 %	4,6 - 4,8 %				
LKM PAM K6	1141006	3,6 - 4,4 %	3,2 - 3,6 %	4,6 - 4,8 %				



Please use the order from on page 42.

LKM-type	Art. No.	fat	protein	dry matter	packaging unit	prices
		<i>Röse-Gottlieb</i>	<i>Kjeldahl</i>	102 °C		
		g/100g	g/100g	g/100g		
LKM R K1	1141011	10 - 14 %	available reference material and the corresponding reference values are available on request		50 ml	20 €
LKM R K2	1141012	15 - 19 %				
LKM R K3	1141013	20 - 24 %				
LKM R K4	1141014	25 - 28 %				
LKM R K5	1141015	29 - 32 %				
LKM R K6	1141016	33 - 35 %				
LKM R K7	1141017	36 - 40 %				
LKM R K8	1141018	41 - 43 %				
LKM R K9	1141019	44 - 46 %				25 €



# STANDARON® - overview whey

Please use the order form on page 42.

LKM-type	Art. No.	fat	protein	lactose mono-hydrate	dry matter	ash	packaging unit	prices
		<i>Röse-Gottlieb</i>	<i>Kjeldahl</i>	<i>enzym.</i>	102 °C	500-550 °C		
		g/100g	g/100g	g/100g	g/100g	g/100 g		
sweet whey	1141031	available reference material and the corresponding reference values are available on request					50 ml	22 €
sour whey	1141032						50 ml	
whey concentrate	1141033						50 ml	

Your contact persons at DRRR GmbH, Kempten: Team Reference Materials Dr. Ulrich Leist	+49 (0)8 31/960 878-0
Your contact persons at LUFA NORD-WEST, Oldenburg Sarah Pietsch	+49 (0)4 41/97 352-152

# Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Milk and cream</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1101001	<b>UHT milk</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], freezing point [m°C], density [g/ml]	
1101004	<b>Goat's milk</b>	<input type="checkbox"/> fat [g/100g], protein (N x 6,38) [g/100g], freezing point [m°C]	
1101007	<b>Evaporated milk</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], ash [g/100g], phosphorus (P) [mg/100g]	
1121064	<b>Dairy drinks</b>	<input type="checkbox"/> fat [g/100g], crude protein (N x 6,38) [g/100g], dry matter [g/100g], sucrose (anhydrous) [g/100g], glucose (anhydrous) [g/100g], lactose (monohydrate) [g/100g], fructose (anhydrous) [g/100g], total sugar (anhydrous) [g/100g]	
<b>milk products (other)</b>			
1111007	<b>Butter</b>	<input type="checkbox"/> solids non fat [g/100g], moisture content [g/100g], hardness [N], chloride [mg/100g], cholesterol [mg/100g], pH value [ - ]	
1111008	<b>Butter (fatty acid profile)</b>	<input type="checkbox"/> butyric acid [% / fat], caproic acid [% / fat], caprylic acid [% / fat], capric acid [% / fat], lauric acid [% / fat], myristic acid [% / fat], myristoleic acid [% / fat], myristelaidic acid [% / fat], palmitic acid [% / fat], palmitoleic acid [% / fat], palmitelaidic acid [% / fat], stearic acid [% / fat], linoleic acid [% / fat], linolenic acid [% / fat], gamma linolenic acid [% / fat], eicosatrienoic acid [% / fat], eicosatetraenoic acid [% / fat], eicosapentaenoic acid [% / fat]	
1111009	<b>Yoghurt</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], pH value [ - ], total lactic acid [mg/100g]	
1111010	<b>Pudding - dessert</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], lactose (monohydrate) [g/100g], pH value [ - ]	
1111011	<b>AMF anhydrous milk fat</b>	<input type="checkbox"/> water content [g/100g], alkalinity [mg/kg], free fatty acids [g/100g], peroxide value [meq.O2/kg], total $\beta$ -carotene [mg/kg], butyric acid methyl ester [g/100g]	
1121001	<b>Ice cream (base mix)</b>	<input type="checkbox"/> total fat [g/100 g], milk fat [g/100 g], colouring agent cochénille red A [mg/kg], lactose (monohydrate) [g/100 g], vanillin [mg/kg], vanillin acid [mg/kg], p-hydroxybenzaldehyde [mg/kg], p-hydroxybenzoic acid [mg/kg], colouring agent curcumin [pos./neg.], colouring agent $\beta$ -carotene [pos./neg.], colouring agent cochénille red A qual. [pos./neg.], foreign fat (added fat) [pos./neg.]	
<b>Cheese</b>			
1111001	<b>Processed cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g], pH value [ - ], sodium chloride [g/100g], nitrate [mg/kg], citric acid (monohydrate) [mg/100g], phosphorus [mg/100g], ash [g/100g], lactose (monohydrate) [g/100g]	
1111012	<b>Processed cheese (natamycin, aflatoxin)</b>	<input type="checkbox"/> natamycin (CAS 7681-93-8) [mg/kg], aflatoxin M1 [ $\mu$ g/kg]	
1111002	<b>Fresh cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], total lactic acid [mg/100g]	
1111004	<b>Semi hard cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], nitrate [mg/kg]	
1111005	<b>Hard cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g]	
1111006	<b>Soft cheese</b>	<input type="checkbox"/> fat [g/100g], dry matter [g/100g], protein (N x 6,38) [g/100g], sodium chloride [g/100g], pH value [ - ]	
<b>Milk powder</b>			
1121002	<b>Whole milk powder</b>	<input type="checkbox"/> fat [g/100 g], free fat [g/100 g], moisture content [g/100 g], crude protein (N x 6,38) [g/100 g], lactose (monohydrate) [g/100 g], ash [g/100 g], titratable acid [g/100 g], pH value [ - ]	
1121004	<b>Milk powder (lactose reduced)</b>	<input type="checkbox"/> lactose (monohydrate) - chromatographic [g/100 g], lactose (monohydrate) - enzymatic [g/100 g], moisture content [g/100 g]	
1121005	<b>Milk powder nitrate - nitrite</b>	<input type="checkbox"/> nitrate [mg/kg], nitrite [mg/kg]	
1121007	<b>Whey powder</b>	<input type="checkbox"/> fat [g/100 g], moisture content [g/100 g], protein [g/100 g], ash [g/100 g], lactose (monohydrate) [g/100 g], titratable acid [g/100 g], pH value [ - ]	
1151004	<b>Mineral oil in cheese and milk powder</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

## Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Egg products</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1121028	<b>Egg products</b>	<input type="checkbox"/> total lipids [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], pH value [ - ], cholesterol [mg/100 g], $\alpha$ -linolenic acid methyl ester [g/100 g total fatty acid methyl ester], eicosapentaenoic acid methyl ester [g/100 g total fatty acid methyl ester], docosahexaenoic acid methyl ester [g/100 g total fatty acid methyl ester], sodium chloride [g/100 g]	
1121029	<b>Egg pasta</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], sodium chloride [g/100 g], cholesterol [mg/100 g], total sterols [mg/100 g], egg content [g/100 g], fibre [g/100 g]	
1121030	<b>Mayonnaise</b>	<input type="checkbox"/> total acid (pH 8.1) calculated as acetic acid [g/100 g], dry matter [g/100 g], total fat [g/100 g], cholesterol [mg/100 g], egg yolk content [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sodium chloride [g/100 g], pH value [ - ]	
1121088	<b>Egg powder</b>	<input type="checkbox"/> total lipids [g/100 g], ash [g/100 g], pH value [ - ], dry matter [g/100 g], sodium chloride [g/100 g], L-lactic acid [mg/kg], D-3-hydroxybutyric acid [mg/kg]	
1121154	<b>PFAS in liquid egg</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [ $\mu$ g/kg], total perfluorooctanoic acid (CAS 335-67-1) [ $\mu$ g/kg], total perfluorononanoic acid (CAS 375-95-1) [ $\mu$ g/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [ $\mu$ g/kg], total perfluorohexanoic acid (CAS 307-24-4) [ $\mu$ g/kg], total perfluorodecanoic acid (CAS 335-76-2) [ $\mu$ g/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [ $\mu$ g/kg], total perfluorododecanoic acid (CAS 307-55-1) [ $\mu$ g/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [ $\mu$ g/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [ $\mu$ g/kg], total perfluorobutane sulfonic acid (CAS 375-73-5) [ $\mu$ g/kg], total perfluorodecane sulfonic acid (CAS 335-77-3) [ $\mu$ g/kg], total perfluorooctanesulfonamide (CAS 754-91-6) [ $\mu$ g/kg]	
<b>Fruit &amp; vegetables products</b>			
1121009	<b>Sugar mix (fruit preparation)</b>	<input type="checkbox"/> sucrose (anhydrous) [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], maltose (anhydrous) [g/100 g], starch [g/100 g], aspartame [ppm], acesulfam K [ppm], sorbate (as anion) [ppm], saccharin as free imide [ppm], total sugar (anhydrous) [g/100 g]	
1121010	<b>Fruit preparation</b>	<input type="checkbox"/> brix value [°brix], pH value [ - ], total acid (pH 8.1) calculated as citric acid (anhydrous) [g/kg], L-malic acid [g/kg], ash [g/kg], phosphorus (P) [g/kg], potassium (K) [mg/100 g]	
1121013	<b>Dry potato product</b>	<input type="checkbox"/> moisture content [g/100 g], total fat [g/100 g], saturated fatty acids [g/100 g], crude protein (N x 6,25) [g/100 g], ash [g/100 g], carbohydrates [g/100 g], starch [g/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g], sodium (Na) [g/100 g]	
1121014	<b>Tomato ketchup</b>	<input type="checkbox"/> pH value [ - ], total acid (pH 8.1) calculated as acetic acid [g/100 g], citric acid (anhydrous) [g/100 g], sodium chloride [g/100 g], glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], soluble solids [g/100 g], dry matter [g/100 g], sorbic acid [g/kg], benzoic acid [g/kg], sucrose (anhydrous) [g/100 g], total sugar (anhydrous) [g/100 g]	
<b>Vegan und vegetarian substitutes</b>			
1121092	<b>Plant drink (milk alternative)</b>	<input type="checkbox"/> fat [g/100 g], dry matter [g/100 g], crude protein (N x 6,38) [g/100 g], freezing point [m°C], density [g/ml]	
1121069	<b>Vegetarian sausage substitute</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], sodium chloride [g/100 g], ash [g/100 g], fibre [g/100 g], pH value [ - ]	
<b>Meat products</b>			
1121031	<b>Boiled sausage 1</b>	<input type="checkbox"/> total fat [g/100 g], moisture content [g/100 g], ash [g/100 g], crude protein (N x 6,25) [g/100 g], hydroxyproline [g/100 g], sodium chloride [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], diphosphorus pentoxide (P2O5) [g/100 g], calcium (Ca) [mg/kg], aw value [ - ], starch [g/100 g]	
1121032	<b>Boiled sausage 2</b>	<input type="checkbox"/> non-protein nitrogen (NPN) x 6.25 [g/100 g], collagen decomposition products [g/100 g], L-glutamic acid [mg/kg], citric acid (anhydrous) [mg/kg], sodium acetate [mg/kg], L-lactate [mg/kg], sodium nitrate [mg/kg], sodium nitrite [mg/kg], total ascorbic acid (vitamin C) [mg/100 g], pH value [ - ]	
1121033	<b>Raw sausage 1</b>	<input type="checkbox"/> aw value [ - ], pH value [ - ], D-lactic acid [mg/kg], L-lactic acid [mg/kg], sodium (Na) [mg/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], sorbic acid [mg/kg], saturated fatty acids [g/100 g Fett (fat)], monounsaturated fatty acids [g/100 g Fett (fat)], total fat [g/100 g]	
1121060	<b>Raw sausage 2</b>	<input type="checkbox"/> sodium (Na) [mg/100 g], total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], hydroxyproline [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], starch [g/100 g], solubilised milk protein [g/100 g]	
1121142	<b>Cooked sausage</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], moisture content [g/100 g], ash [g/100 g], sodium chloride [g/100 g], pH value [ - ], aw value [ - ], hydroxyproline [g/100 g], sodium nitrate [mg/kg], sodium nitrite [mg/kg], starch [g/100 g], diphosphorus pentoxide (P2O5) [g/100 g], L-glutamic acid [mg/kg]	
<b>Fish and seafood</b>			
1121034	<b>Fish paste 1</b>	<input type="checkbox"/> moisture content [g/ 100 g], total fat [g/ 100 g], crude protein (N x 6,25) [g/ 100 g], ash [g/ 100 g], sodium chloride [g/ 100 g], arsenic (As) [ $\mu$ g/ 100 g], iodine (I) [ $\mu$ g/ 100 g]	
1121035	<b>Fish paste 2</b>	<input type="checkbox"/> total fat [g/ 100 g], sorbic acid [mg/ 100 g], benzoic acid [mg/ 100 g], saccharin as free imide [mg/ 100 g], cyclamate [mg/ 100 g], citric acid (anhydrous) [mg/ 100 g]	
1121148	<b>PFAS in fish</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [ $\mu$ g/kg], total perfluorooctanoic acid (CAS 335-67-1) [ $\mu$ g/kg], total perfluorononanoic acid (CAS 375-95-1) [ $\mu$ g/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [ $\mu$ g/kg]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

## Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Nonalcoholic beverages</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1121015	<b>Coffee</b>	<input type="checkbox"/> water content [g/100 g], ash [g/100 g], pH value [-], acid content (acidity) at pH 6,00 [mmol/kg], acid content (acidity) at pH 7,00 [mmol/kg], acid content (acidity) at pH 8,00 [mmol/kg], water soluble extract [g/100 g], caffeine [g/100 g], acrylamide (CAS 79-06-1) [µg/kg], chlorogenic acid [g/100 g]	
1121016	<b>Tea</b>	<input type="checkbox"/> dry matter [g/100 g], ash [g/100 g dry matter], water soluble ash [g/100 g dry matter], water soluble extract [g/100 g dry matter], caffeine [g/100 g dry matter], theobromine [mg/100 g dry matter], theophylline [mg/100 g dry matter], acid-insoluble ash [g/100 g dry matter]	
1121017	<b>Energy drink</b>	<input type="checkbox"/> pH value [-], taurine [mg/l], caffeine [mg/l], inositol [mg/l], glucuronolactone [mg/l], sucrose (anhydrous) [g/l], glucose (anhydrous) [g/l], fructose (anhydrous) [g/l], total sugar (anhydrous) [g/l], total acid (pH 8.1) calculated as tartaric acid [g/l], relative density (20 °C/20 °C) [-], absorption of light at a wavelength of 400 nm [-], absorption of light at a wavelength of 460 nm [-], absorption of light at a wavelength of 520 nm [-], absorption of light at a wavelength of 630 nm [-], CO <sub>2</sub> content [g/l], dissolved oxygen [ppm]	
1121018	<b>Vitamin solution</b>	<input type="checkbox"/> thiamine (vitamin B1) as thiamine chloride [mg/100 ml], riboflavin (vitamin B2) as total vitamin B2 [mg/100 ml], niacin (vitamin B3) [mg/100 ml], pantothenic acid (vitamin B5) [mg/100 ml], pyridoxine (vitamin B6) [mg/100 ml], folic acid (vitamin B11) [µg/100 ml], cyanocobalamin (vitamin B12) [µg/100 ml], L-ascorbic acid [mg/100 ml], α-tocopherol (vitamin E) [mg/100 ml], riboflavin [mg/100 ml], flavin mononucleotide [mg/100 ml]	
1121021	<b>Carrot juice</b>	<input type="checkbox"/> relative density (20 °C/20 °C) [-], pH value [-], total acid (pH 8.1) calculated as tartaric acid [g/l], sucrose (anhydrous) [g/l], fructose (anhydrous) [g/l], glucose (anhydrous) [g/l], nitrate [mg/l], total β-carotene [mg/100 g], α-carotene [mg/100 g], total carotenes [mg/100 g], total sugar (anhydrous) [g/l]	
1121058	<b>Fruit juice concentrate 1</b>	<input type="checkbox"/> brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H+/kg], citric acid (anhydrous) [g/kg], total D-isocitric acid [mg/kg], L-malic acid [g/kg], L-ascorbic acid [mg/100 g], total lactic acid [g/kg], citric acid/total D-isocitric acid ratio [-], hesperidin [mg/kg]	
1121059	<b>Fruit juice concentrate 2</b>	<input type="checkbox"/> brix value [°brix], titratable acidity (pH 8.1) [mmol H+/kg], glucose (anhydrous) [g/kg], fructose (anhydrous) [g/kg], sucrose (anhydrous) [g/kg], total sugar (anhydrous) [g/kg], sugar-free extract [g/kg], glucose/fructose ratio [-], % sucrose of sugar [%]	
1121062	<b>Fruit juice concentrate 3</b>	<input type="checkbox"/> brix value [°brix], pH value [-], titratable acidity (pH 8.1) [mmol H+/kg], ash [g/kg], potassium (K) [mg/kg], calcium (Ca) [mg/kg], magnesium (Mg) [mg/kg], phosphorus (P) [mg/kg], sodium (Na) [mg/kg], nitrate [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg]	
1121053	<b>Grape juice</b>	<input type="checkbox"/> sulphur dioxide (SO <sub>2</sub> ) [mg/l]	
1121054	<b>Currant juice</b>	<input type="checkbox"/> lead (Pb) [mg/kg], cadmium (Cd) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg], iron (Fe) [mg/kg], tin (Sn) [mg/kg], mercury (Hg) [mg/kg], aluminium (Al) [mg/kg], nickel (Ni) [mg/kg]	
1121055	<b>Tomato juice</b>	<input type="checkbox"/> total ergosterol [mg/l]	
<b>Alcoholic beverages</b>			
1121026	<b>Beer</b>	<input type="checkbox"/> apparent extract [g/100 g], real extract [g/100 g], alcohol by weight [g/100 g], alcohol by volume [ml/100 ml], original wort [g/100 g], relative density (20 °C/20 °C) [-], bitterness units [IBU], pH value [-]	
<b>Cereals, cereal products</b>			
1121037	<b>Pastries</b>	<input type="checkbox"/> total fat [g/100 g], crude protein (N x 6,25) [g/100 g], dry matter [g/100 g], ash [g/100 g], milk fat [g/100 g], sucrose (anhydrous) [g/100 g], starch [g/100 g]	
1121061	<b>Pastries</b>	<input type="checkbox"/> propionic acid [mg/kg]	
1121038	<b>Flour</b>	<input type="checkbox"/> moisture content [g/100 g], crude protein (N x 5,7) [g/100 g], ash [g/100 g], starch [g/100 g], wet gluten [g/100 g], falling number [s], titratable acid [g/100 g]	
1121040	<b>Butter biscuit</b>	<input type="checkbox"/> ash [g/100 g], dry matter [g/100 g], crude protein (N x 6,25) [g/100 g], total fat [g/100 g], semimicro butyric acid number [-], free butyric acid [g/100 g fat], butyric acid methyl ester [g/100 g fat], milk fat [g/100 g], starch [g/100 g], cholesterol [mg/100 g], sucrose (anhydrous) [g/100 g], fibre [g/100 g]	
1151016	<b>Mineral oil in low-fat and starch-rich foodstuff</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
<b>Infant formula</b>			
1101010	<b>Milk powder IMF part 1</b>	<input type="checkbox"/> fat [g/100g], crude protein (N x 6,25) [g/100g], ash [g/100g], moisture content [g/100g], retinol (vitamin A) as all-E-retinol [µg/100g], total ascorbic acid (vitamin C) [mg/100g]	
1101011	<b>Milk powder IMF part 2</b>	<input type="checkbox"/> sodium (Na) [mg/100g], potassium (K) [mg/100g], calcium (Ca) [mg/100g], magnesium (Mg) [mg/100g], phosphorus (P) [mg/100g], iron (Fe) [mg/100g], copper (Cu) [µg/100g], zinc (Zn) [mg/100g], manganese (Mn) [µg/100g]	
1121153	<b>PFAS in baby food</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [ng/kg], total perfluorooctanoic acid (CAS 335-67-1) [ng/kg], total perfluorononanoic acid (CAS 375-95-1) [ng/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [ng/kg]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

# Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Declaration nutrition values</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1121044	<b>Declaration nutrition values with 2 different food stuff</b>	<input type="checkbox"/> energy value [kJ/100 g], protein [g/100 g], carbohydrate [g/100 g], sugar [g/100 g], fat [g/100 g], saturated fatty acids [g/100 g], fibre [g/100 g], salt [g/100 g]	
<b>Animal feed</b>			
1121112	<b>Ingredients animal feed (round 1)</b>	<input type="checkbox"/> moisture content [g/100 g], crude protein (N x 6,25) [g/100 g], crude oil [g/100 g], crude ash [g/100 g], crude fiber [g/100 g], total sugar (anhydrous) [g/100 g], lactose (monohydrate) [g/100 g], starch [g/100 g], ash (insoluble in hydrochloric acid) [g/100 g], calcium carbonate [g/100 g]	
<b>Honey and beeswax</b>			
1121047	<b>Honey 1</b>	<input type="checkbox"/> diastase number acc. to Schade [ - ], proline [mg/kg], hydroxymethylfurfural (CAS 67-47-0) [mg/kg], electrical conductivity [mS/cm], moisture [g/100 g], glycerin [mg/kg], ethanol (CAS 64-17-5) [mg/kg], pH value [ - ]	
1121067	<b>Honey 2</b>	<input type="checkbox"/> glucose (anhydrous) [g/100 g], fructose (anhydrous) [g/100 g], maltose (anhydrous) [g/100 g], sucrose (anhydrous) [g/100 g], turanose (anhydrous) [g/100 g], saccharase activity acc. to Siegenthaler [U/kg], saccharase activity acc. to Hadorn [ - ], free acidity [mmol/kg], ash [g/100 g]	
1121076	<b>Pyrrolizidine alkaloids in honey</b>	<input type="checkbox"/> Screening for at least 9 different pyrrolizidine alkaloids, e.g. monocrotaline, heliotrine, retrorsine	
<b>Cocoa and chocolate</b>			
1121048	<b>Chocolate</b>	<input type="checkbox"/> total fat [g/100 g], milk fat [g/100 g], crude protein (N x 6,25) [g/100 g], water content [g/100 g], lactose (monohydrate) [g/100 g], sucrose (anhydrous) [g/100 g], theobromine [mg/100 g], caffeine [mg/100 g], dry matter [mg/100 g]	
1151053	<b>Mineral oil in cocoa butter and chocolate</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
<b>Fats, oils and oilseeds</b>			
1121068	<b>Edible fat</b>	<input type="checkbox"/> iodine value [g iodine / 100 g fat], acid value [mg KOH/g fat], peroxide value [mEq active oxygen/kg], saponification value [mg KOH/g fat], $\alpha$ -tocopherol [mg/100 g], free fatty acids [mg/100 g], p-anisidine value [AV], Refractive Index [nD], water content [g/100 g]	
1121089	<b>PAHs in animal and vegetable fats and oils</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [ $\mu$ g/kg], benzo[a]anthracene (CAS 56-55-3) [ $\mu$ g/kg], chrysene (CAS 218-01-9) [ $\mu$ g/kg], benzo[b]fluoranthene (CAS 205-99-2) [ $\mu$ g/kg], sum of PAHs [ $\mu$ g/kg]	
1151017	<b>Mineral oil in edible fats</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
1151017	<b>Mineral oil in edible oils</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

# Reference material - organoleptic



Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Nonalcoholic beverages</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
3321001	<b>Drinking water (TON, TFN) (minimum number of participants: 3 assessors)</b>	<input type="checkbox"/> threshold odour number (TON), threshold flavour number (TFN)	
3321002	<b>Drinking water (TON, TFN) (minimum number of participants: 3 assessors)</b>	<input type="checkbox"/> threshold odour number (TON), threshold flavour number (TFN)	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Milk and cream</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2201001	reference solution E.coli	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201002	reference solution Enterobacteriaceae	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201003	E.coli milk	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201004	Enterobacteriaceae milk	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201005	Aerobic spores milk	<input type="checkbox"/> aerobic spores [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201006	Detection Campylobacter spp. milk	<input type="checkbox"/> Campylobacter spp. (pos./neg.)	<b>risk group 2</b>	
2201076	Psychrotrophic bacteria milk	<input type="checkbox"/> psychrotrophic total count (7°C) [cfu/g], psychrotrophic total count (21°C) [cfu/g]	<b>risk group 1</b>	
2201074	Yeasts in milk	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201091	EHEC O157 milk	<input type="checkbox"/> EHEC O157 (pos./neg.)	<b>risk group 3 **</b>	
2201085	Novovirus milk	<input type="checkbox"/> Norovirus (pos./neg.)	<b>risk group 2</b>	
2201108	Detection B.cereus milk	<input type="checkbox"/> B.cereus qualitative (pos./neg.)	<b>risk group 2</b>	
1101025	Milk (residues)	<input type="checkbox"/> Chloramphenicol (CAS 56-75-7) [µg/kg], PCB 101 (CAS 37680-73-2) [(mg/kg) fat], trichlormethane (CAS 67-66-3) [mg/kg], aflatoxin M1 [µg/kg], Streptomycin (CAS 57-92-1) [µg/l], tetracycline (CAS 60-54-8) [µg/kg]		
<b>Milk products (other)</b>				
2201101	Characteristic microorganisms yoghurt	<input type="checkbox"/> Lactobacillus bulgaricus [cfu/g], Streptococcus thermophilus [cfu/g]	<b>risk group 1</b>	
<b>Cheese</b>				
2201007	E.coli cheese	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201008	Listeria cheese	<input type="checkbox"/> L. monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	
2201009	Enterobacteriaceae cheese	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201010	Moulds cheese	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201011	Yeasts cheese	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201012	Coagulase-positive Staphylococcus cheese	<input type="checkbox"/> coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201013	B.cereus processed cheese	<input type="checkbox"/> B.cereus [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
<b>Ice-cream</b>				
2201063	Enterobacteriaceae ice-cream	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201065	Salmonella spp. ice-cream	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
2201064	E.coli ice-cream	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201066	L.monocytogenes ice-cream	<input type="checkbox"/> L. monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Milk powder</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2201014	<b>Coliform bacteria milk powder</b>	<input type="checkbox"/> Coliforms [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201015	<b>Moulds milk powder</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201016	<b>Yeasts milk powder</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201017	<b>E.coli milk powder</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201018	<b>Enterobacteriaceae milk powder</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201019	<b>Enterococcus milk powder</b>	<input type="checkbox"/> Enterococcus [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201020	<b>Lactobacillus milk powder</b>	<input type="checkbox"/> lactobacilli (microaerophilic) [cfu/g], aerobic total count [cfu/g], lactobacilli (aerobic) [cfu/g]	<b>risk group 1</b>	
2201021	<b>Shigella spp. milk powder</b>	<input type="checkbox"/> Shigella spp. (pos./neg.)	<b>risk group 2</b>	
2201022	<b>Clostridia milk powder</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic, sulfite-reducing spores [cfu/g], C.perfringens [cfu/g]	<b>risk group 2</b>	
2201083	<b>Clostridia milk powder qualitative</b>	<input type="checkbox"/> Clostridia spp. (pos./neg.)	<b>risk group 2</b>	
2201023	<b>B.cereus milk powder</b>	<input type="checkbox"/> B.cereus [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201024	<b>Cronobacter spp. milk powder</b>	<input type="checkbox"/> Cronobacter spp. (pos./neg.)	<b>risk group 2</b>	
2201025	<b>Salmonella spp. milk powder</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
2201026	<b>Coagulase-positive Staphylococcus milk powder</b>	<input type="checkbox"/> coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201078	<b>Coagulase-positive Staphylococcus milk powder qualitative</b>	<input type="checkbox"/> coagulase-positive Staphylococcus qualitative (pos./neg.)	<b>risk group 2</b>	
2201028	<b>Listeria milk powder qualitative</b>	<input type="checkbox"/> L.monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	
2201027	<b>Listeria milk powder quantitative</b>	<input type="checkbox"/> L.monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	
2201062	<b>Thermophilic bacteria (55 °C) milk powder</b>	<input type="checkbox"/> thermophilic aerobic total count (55°C, vegetative) [cfu/g], thermoresistent spores of aerobic, thermophilic bacteria [cfu/g]	<b>risk group 1</b>	
2201080	<b>Anaerobic, mesophilic spores milk powder</b>	<input type="checkbox"/> anaerobic mesophile spores [cfu/g], anaerobic total count [cfu/g]	<b>risk group 2</b>	
2201082	<b>Pseudomonas spp. milk powder qualitative</b>	<input type="checkbox"/> Pseudomonas spp. qualitative (pos./neg.)	<b>risk group 2</b>	

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Meat products</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2201038	<b>E.coli ground meat</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201039	<b>Enterobacteriaceae ground meat</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201040	<b>Lactobacillus ground meat</b>	<input type="checkbox"/> lactobacilli (aerobic) [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201041	<b>Coagulase-positive Staphylococcus ground meat</b>	<input type="checkbox"/> coagulase-positive Staphylococcus [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201042	<b>Pseudomonas spp. ground meat</b>	<input type="checkbox"/> Pseudomonas spp. [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201043	<b>Salmonella spp. ground meat</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
2201044	<b>Listeria ground meat quantitative</b>	<input type="checkbox"/> L. monocytogenes [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201045	<b>Listeria ground meat qualitative</b>	<input type="checkbox"/> L. monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	
2201046	<b>Detection Campylobacter spp. poultry</b>	<input type="checkbox"/> Campylobacter spp. (pos./neg.)	<b>risk group 2</b>	
2201107	<b>Enumeration Campylobacter spp. poultry</b>	<input type="checkbox"/> Campylobacter spp. quantitative [CFU/g]	<b>risk group 2</b>	
2201081	<b>Coliforme bacteria ground meat</b>	<input type="checkbox"/> Coliforms [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201084	<b>Clostridia ground meat</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g], anaerobic total count [cfu/g], anaerobic, mesophilic, sulfite-reducing spores [cfu/g], C.perfringens [cfu/g]	<b>risk group 2</b>	
1121056	<b>Beef, pork, horse</b>	<input type="checkbox"/> Identification of species, Relative amount beef [%], Relative amount pork [%], Relative amount horse [%]		
1121057	<b>Porcine and beef DNA in gelatine</b>	<input type="checkbox"/> Identification of the animal species pork, Identification of the animal species beef (pos./neg.)		
1121096	<b>Porcine DNA in Candy</b>	<input type="checkbox"/> Identification of the animal species pork (pos./neg.)		

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Egg products</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2201037	<b>Enterobacteriaceae in egg products</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201056	<b>Salmonella spp. egg products</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
2201057	<b>E.coli egg products</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
<b>Fish &amp; seafood</b>				
2201047	<b>Yersinia enterocolitica seafood</b>	<input type="checkbox"/> Yersinia enterocolitica (pos./neg.)	<b>risk group 2</b>	
2201048	<b>Pathogenic Vibrio spp. seafood</b>	<input type="checkbox"/> Vibrio parahaemolyticus (pos./neg.)	<b>risk group 2</b>	
2201060	<b>Salmonella spp. Seafood</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
<b>Infant formula</b>				
2201093	<b>Enterobacteriaceae infant formula (powder) qualitative</b>	<input type="checkbox"/> Enterobacteriaceae (pos./neg.)	<b>risk group 1</b>	
<b>Food matrices (other)</b>				
2201050	<b>Salmonella spp. spice powder</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
2201052	<b>Listeria convenience products</b>	<input type="checkbox"/> L. monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	
2201059	<b>Salmonella spp. Herbs</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
<b>Animal feed</b>				
2201053	<b>Clostridia animal feed</b>	<input type="checkbox"/> sulfite-reducing Clostridia (vegetative) [cfu/g], lactobacilli (anaerobic) [cfu/g], anaerobic mesophilic sulfite-reducing spores [cfu/g], anaerobic mesophilic total spores (nonselective) [cfu/g]	<b>risk group 2</b>	
2201054	<b>Salmonella spp. in feed stuff</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	
2201109	<b>Listeria spp. in animal feed</b>	<input type="checkbox"/> Listeria spp qualitative (pos./neg.)	<b>risk group 2</b>	
<b>Honey and beeswax</b>				
1121078	<b>GMOs in honey</b>	<input type="checkbox"/> detection of screening elements P-35S, T-NOS and P-FMV (pos./neg.)		

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Fruit &amp; vegetables products</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2201029	<b>Moulds fruit preparation quantitative</b>	<input type="checkbox"/> moulds [cfu/g]	<b>risk group 1</b>	
2201030	<b>Moulds fruit preparation qualitative</b>	<input type="checkbox"/> moulds qualitative (pos./neg.)	<b>risk group 1</b>	
2201031	<b>Yeasts fruit preparation quantitative</b>	<input type="checkbox"/> yeasts [cfu/g]	<b>risk group 1</b>	
2201032	<b>Yeasts fruit preparation qualitative</b>	<input type="checkbox"/> yeasts qualitative (pos./neg.)	<b>risk group 1</b>	
2201033	<b>Listeria vegetables quantitative</b>	<input type="checkbox"/> L. monocytogenes [cfu/g], aerobic total count [cfu/g]	<b>risk group 2</b>	
2201034	<b>Listeria vegetables qualitative</b>	<input type="checkbox"/> L. monocytogenes qualitative (pos./neg.)	<b>risk group 2</b>	
2201067	<b>Osmophilic yeasts sugar solution</b>	<input type="checkbox"/> osmophilic yeasts [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201068	<b>Osmophilic moulds sugar solution</b>	<input type="checkbox"/> osmophilic moulds [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201102	<b>Yeasts dates</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201103	<b>Moulds dates</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
<b>Nonalcoholic beverages</b>				
2201035	<b>E.coli fruit juice</b>	<input type="checkbox"/> E.coli [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201058	<b>Alicyclobacillus spp. fruit juice concentrate &amp; compounds</b>	<input type="checkbox"/> Alicyclobacillus spp. (pos./neg.)	<b>risk group 1</b>	
2201069	<b>Yeasts fruit juice concentrate</b>	<input type="checkbox"/> yeasts [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201070	<b>Moulds fruit juice concentrate</b>	<input type="checkbox"/> moulds [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201071	<b>Lactic acid bacteria fruit juice</b>	<input type="checkbox"/> lactic acid bacteria (aerobic) [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201072	<b>Acetic acid bacteria fruit juice concentrate</b>	<input type="checkbox"/> acetic acid bacteria [cfu/g], aerobic total count [cfu/g]	<b>risk group 1</b>	
2201090	<b>Spoiling agents in fruit juice concentrate &amp; compounds</b>	<input type="checkbox"/> spoiling agents quantitative [cfu/g], aerobic total count [cfu/g], spoiling agents qualitative	<b>risk group 1</b>	

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

# Reference material - immunological, molecular biological & microbiological



Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>mineral water and table water</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2221011	<b>Aerobic total count mineral water and table water</b>	<input type="checkbox"/> aerobic total count 37°C [KbE/ml], aerobic total count 20°C [KbE/ml]	<b>risk group 1</b>	
2221012	<b>Streptococci (faecal) mineral water and table water</b>	<input type="checkbox"/> streptococci (faecal) qualitative (pos./neg.)	<b>risk group 2</b>	
2221013	<b>E.coli mineral water and table water</b>	<input type="checkbox"/> E.coli qualitative (pos./neg.)	<b>risk group 1</b>	
2221022	<b>Coliforme bacteria mineral water and table water</b>	<input type="checkbox"/> Coliforme qualitative (pos./neg.)	<b>risk group 1</b>	
2221014	<b>Pseudomonas aeruginosa mineral water and table water</b>	<input type="checkbox"/> Ps.aeruginosa qualitative (pos./neg.)	<b>risk group 2</b>	
2221015	<b>Sulfite-reducing, spore-forming anaerobes mineral water</b>	<input type="checkbox"/> sulfite-reducing, spore-forming anaerobes qualitative (pos./neg.)	<b>risk group 2</b>	
<b>Cocoa and chocolate</b>				
2201049	<b>Salmonella spp. chocolate</b>	<input type="checkbox"/> Salmonella spp. (pos./neg.)	<b>risk group 2</b>	

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from  $10^2$  to  $10^5$  KbE/g or KbE/ml and can be asked before order.

# order form reference material



Quantity

material type / material description / article no.



**For questions and suggestions do not hesitate to contact the DRRR-team!**

+49(0)831/960 878-0

[info@DRRR.de](mailto:info@DRRR.de)

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**For reference materials labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

Please notice that we process orders only at a minimum order value of 50 €.

- An offer with the total costs is needed
- A Purchase order from the purchasing department will follow

Order by e-mail:

[info@DRRR.de](mailto:info@DRRR.de)

Hereby we confirm obligatorily the order for the reference materials


**DRRR-customer number**

---

**company**

---

**additional line**

---

**contact person**

---

**street**

---

**post code / city**

---

**country**

---

**email**

---

**VAT-ID (EU)**

---

Date:

**Deutsches Referenzbüro**  
 für Ringversuche und Referenzmaterialien GmbH  
 Reinhartser Straße 31 | 87437 Kempten  
 Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99  
[www.DRRR.de](http://www.DRRR.de) | [info@DRRR.de](mailto:info@DRRR.de)

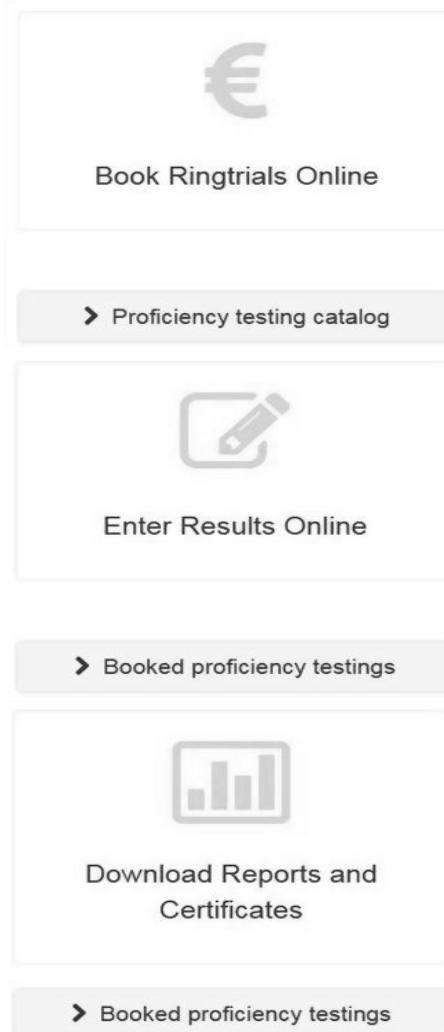
## Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

- Fast and easy online registration / online announcement in our online catalogue
- Direct management and booking of the proficiency testing
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates
- Supervisor rights available to overview all PTs of a multi-site company
- Saving of costs through booking and submission of your results via ODIN

## Secure payment with IRIS (Internet Remuneration Information Service).

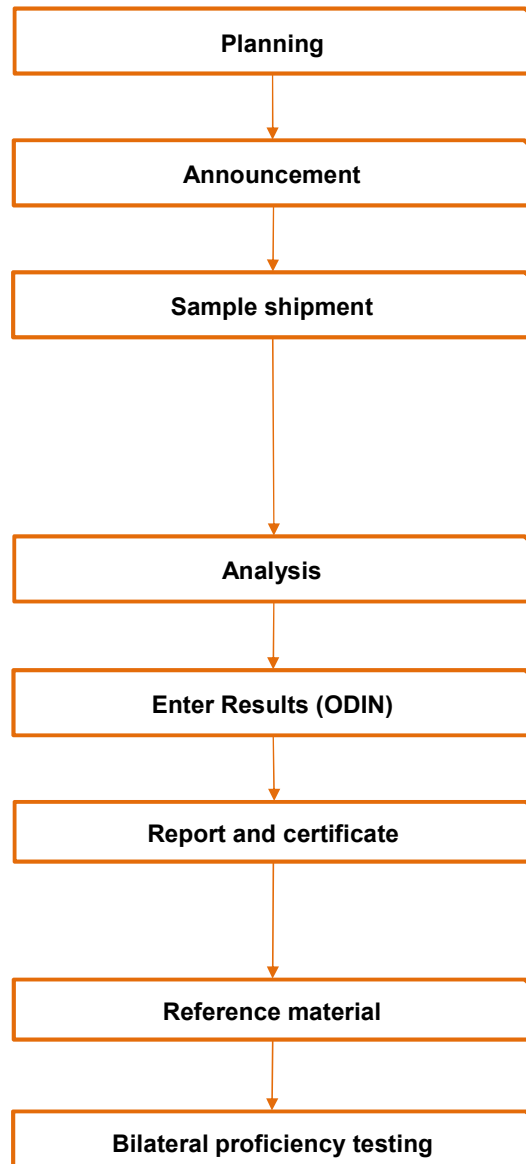
- Easy and safe payment by credit card
- Overview about all invoices
- Fast and secure online access

*You can also pay your invoice via banktransfer or bank check.*



The screenshot displays a user interface with several main buttons and navigation links. At the top is a button with a Euro symbol (€) and the text 'Book Ringtrials Online'. Below it is a grey navigation bar with a right-pointing arrow and the text 'Proficiency testing catalog'. The next main button features a pencil icon and the text 'Enter Results Online'. Below that is another grey navigation bar with a right-pointing arrow and the text 'Booked proficiency testings'. The final main button shows a bar chart icon and the text 'Download Reports and Certificates'. At the bottom, there is a final grey navigation bar with a right-pointing arrow and the text 'Booked proficiency testings'.

- A precise planning and organisation of each proficiency testing round
- 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details
- According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.  
  
We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.
- After receiving the samples you will have a period of 4 weeks for analysing
- Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN
- At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance
- After the proficiency testing we can offer you reference materials
- Possibility to perform a bilateral proficiency testing (bPT)



# Benefits of proficiency testing

## Why take part in proficiency testing?

- Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers
- Participants can compare, assure and improve their own performance and quality against other laboratories worldwide
- Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories
- Saving on the costs of testing
- Unquestionable lab performance towards customers, authorities and certification authorities
- Saving on the costs of lab development and maintenance
- Saving on the costs of lab development and maintenance
- Saving on production costs by avoiding waste of raw material

## Your benefits in DRRR proficiency testing schemes

- Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories
- Saving the costs, because you have the opportunity to analyze more samples and more parameters in one proficiency testing
- External demonstration of your performance with the results of the proficiency testing
- Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence
- Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us

GOOD  
BETTER  
BEST

Image source:  
iStock.com/3dts

## We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogenous and stable sample material

## Laboratory performance:

by calculation of the following parameters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

## Statistical models:

Depending on the type of the distribution of the data, different statistical models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics (Hampel estimator, Q-method)
- Robust statistics (Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the  $\chi^2$ -fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



## z'-score > 2: What to do?

### You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.

These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

### Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually\*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.

(\* normally not longer than 1 - 2 weeks)

The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

### The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.

You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

### Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager). Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

**On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.**

**Please do not hesitate to contact us.**

### IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarities for the IR calibration of selected food will be discussed. The specific peculiarities of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

**The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical exercise calibration data sets will be tested for suitability and critical data sets will be identified.**

### Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

**The sensory measurement uncertainty of each participant will be determined at a practical example.**

### User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

**A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.**

### Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classic misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

**The seminar is complemented by practical exercises with the notebook.**

### Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test,  $q_{i^2}$ -adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

**The seminar is complemented by practical exercises with the notebook.**

**Implementation of DIN EN ISO/IEC 17025 in food laboratories**

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

**You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.**

**Inhouse-Training**

We consider lectures, training and seminars as an important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

**For special requirements we also offer customised training programmes.**

**For questions about contents and conditions do not hesitate to contact us.**

# Sales terms and delivery conditions

## Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.

Terms of payment: 8 days net, without deduction

Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:

Raiffeisenbank in Allgäuer Land / bank code 733 692 64

Account 102350 / IBAN DE 94733692640000102350

BIC code: GENO DEF1DTA

Sales tax ID no. DE254613132

tax number 127/124/32207

## Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked "frozen" are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

## Terms of delivery (risk group 1, 2 and 3)

Proficiency tests or reference materials marked with "Risk Group 1" are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with "risk group 2, or risk group 3\*\*", we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

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# General terms and conditions

**The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.**

## § 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.

Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.

If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations.

The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

## § 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.

The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.

The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.

A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

<b>Cancellation notification period:</b>	Permanent registration (D)
	single (one-time) registration €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

## § 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

## § 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments. Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).

The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.

No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order. Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.

The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.

The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.

The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.

If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.

The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.

The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.

All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.

In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.

All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.

The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.

For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

## § 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.

Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.

All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded.

Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

## § 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.

The goods remain the property of DRRR until they have been paid for in full by the customer.

The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.

Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.

The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction).

Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.

Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

## § 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.

The DRRR and its employees may not unauthorizably disclose or exploit business and operating relationships that come to their knowledge in the course of their work.

The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.

If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

## § 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.

The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.

The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

## § 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:

The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.

Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.

Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.

The warranty is limited to the stated expiration date of the reference materials.

This applies to: ieLab, TGZ AQS Baden-Württemberg

# Consumer goods and Packaging

## product catalogue 2025



chemical-physical

organoleptic

immunological, molecular  
biological & microbiological

Image source:  
iStock.com/279photo

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## Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

### Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 500 PT's per year

### Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Accredited PT-provider

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).



### Accreditation DIN EN ISO/IEC 17043:2010 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2010. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-EP-17063-01-00].

Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

### Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

### Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

## Features

The inspectors of the DRRR-team are represent in different national and international committees and working groups. Thus we ensure that the DRRR quality assurance systems are available for new and up-to-date questions in all cases, if the laboratories start to establish the routine method. Due to the intensive professional exchange in the committees, it is ensured that the proficiency testing design is conformed to the new developments and the laboratories have the highest possible benefits in a participation in the proficiency testing.

**National and international committees and working groups**

## Testing with matrix reference

Whenever possible, real matrices e.g. films, textiles, cardboard and cosmetics are used. This ensures that our proficiency testing schemes have an actual matrix reference and the sample preparation is part of the proficiency testing.

**Matrix reference**

## Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

**Evaluation**

## Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

**Market-leading statistical evaluation**

# Individual Proficiency testing



In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

## Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

**Benefit from our high quality standards in all important fields of testing.**

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

**Get in touch with us.**

**We look forward to working with you!**

# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters <sup>[*]</sup>	Period	To view pricing information:
<b>Plastics, plastic film - NEW!</b>				
<a href="#">Login or register</a>				
2011254	<b>Plastic - elements</b>	<input type="checkbox"/> arsenic (As) [mg/kg], bromine (Br) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg], mercury (Hg) [mg/kg], lead (Pb) [mg/kg], sulfur (S) [mg/kg], antimony (Sb) [mg/kg], tin (Sn) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Jun-25	
The determination of various elements is important e.g. for testing compliance with the RoHS Directive. In addition to some regulated elements such as lead, bromine and cadmium, other elements are to be analysed in this proficiency testing. This test can be carried out using e.g. DIN EN 1122; DIN EN 62321-4; VDE 0042-1-4; DIN EN 62321-5; VDE 0042-1-5				
2011255	<b>Plastic - contaminants in recycled PET</b>	<input type="checkbox"/> limonene (CAS 138-86-3) [µg/g], acetaldehyde (CAS 75-07-0) [µg/g], benzene (CAS 71-43-2) [µg/g], 2-methyl-1,3-dioxolan (CAS 497-26-7) [µg/g] (all quantitative)	Nov-25	
The sample material in the PT is PET granulate. Participants can test the samples for the above contaminants using a method of their choice.				
2011256	<b>Plastic - residual solvents (part 1)</b>	<input type="checkbox"/> 1-Butanol (CAS 71-36-3) [mg/m <sup>2</sup> ], 2-Butanol (CAS 78-92-2) [mg/m <sup>2</sup> ], 2-Butanone (CAS 78-93-3) [mg/m <sup>2</sup> ], Butyl acetate (CAS 123-86-4) [mg/m <sup>2</sup> ], Cyclohexane (CAS 110-82-7) [mg/m <sup>2</sup> ], Cyclohexanone (CAS 108-94-1) [mg/m <sup>2</sup> ], Ethanol (CAS 64-17-5) [mg/m <sup>2</sup> ], 2-Ethoxyethanol (CAS 110-80-5) [mg/m <sup>2</sup> ], Ethyl acetate (CAS 141-78-6) [mg/m <sup>2</sup> ], Isobutyl acetate (CAS 110-19-0) [mg/m <sup>2</sup> ], Methanol (CAS 67-56-1) [mg/m <sup>2</sup> ], Methyl acetate (CAS 79-20-9) [mg/m <sup>2</sup> ], 2-Methoxyethyl acetate (CAS 110-49-6) [mg/m <sup>2</sup> ], Toluene (CAS 108-88-3) [mg/m <sup>2</sup> ] (all quantitative)	Nov-25	
2011257	<b>Plastic - residual solvents (part 2)</b>	<input type="checkbox"/> 2-Ethoxyethyl acetate (CAS 111-15-9) [mg/m <sup>2</sup> ], Isopropyl acetate (CAS 108-21-4) [mg/m <sup>2</sup> ], Propyl acetate (CAS 109-60-4) [mg/m <sup>2</sup> ], 2-Methoxyethanol (CAS 109-86-4) [mg/m <sup>2</sup> ], 1-Methoxy-2-propanol (CAS 107-98-2) [mg/m <sup>2</sup> ], 4-Methyl-2-pentanone (CAS 108-10-1) [mg/m <sup>2</sup> ], 2-Methyl-1-propanol (CAS 78-83-1) [mg/m <sup>2</sup> ], Acetone (CAS 67-64-1) [mg/m <sup>2</sup> ], 1-Propanol (CAS 71-23-8) [mg/m <sup>2</sup> ], 2-Propanol (CAS 67-63-0) [mg/m <sup>2</sup> ], Tetrahydrofuran (CAS 109-99-9) [mg/m <sup>2</sup> ] (all quantitative)	Nov-25	
2011258	<b>Plastic - specific migration antioxidant</b>	<input type="checkbox"/> Irganox 1076 (CAS 2082-79-3) (ethanol 95%) [mg/kg] (all quantitative)	Oct-25	
2011259	<b>Plastic - PFAS</b>	<input type="checkbox"/> total perfluorohexane sulfonic acid (CAS 355-46-4) [mg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [mg/kg], total perfluorohexanoic acid (CAS 307-24-4) [mg/kg], total perfluorooctanoic acid (CAS 335-67-1) [mg/kg], total perfluorononanoic acid (CAS 375-95-1) [mg/kg], total perfluorodecanoic acid (CAS 335-76-2) [mg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [mg/kg], total perfluorododecanoic acid (CAS 307-55-1) [mg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [mg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [mg/kg], total fluor (TF) [mg/kg] (all quantitative)	Nov-25	
2011260	<b>Plastic, silicone - siloxanes</b>	<input type="checkbox"/> octamethylcyclotetrasiloxanes (D4) (CAS 556-67-2), decamethylcyclopentasiloxane (D5) (CAS 541-02-6), dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6) (all quantitative)	Aug-25	
2011261	<b>Materials in contact with drinking water - leachable organic substances (EN 15768)</b>	<input type="checkbox"/> identification of various leachable organic substances (qual.), semi-quantification of the identified leachable organic substances [µg/l] (quant.)	Apr-25	
A spiked water is to be analysed for leachable organic substances in accordance with EN 15768. A blank sample is provided in the PT. Both the semi-quantitative concentration estimation and the identification of the detected substances are part of the PT.				
<b>Plastics, plastic film - identification</b>				
2011151	<b>Plastic - screening of SVHC</b>	<input type="checkbox"/> identification of various SVHC (qual.), quantification of the identified SVHC [mg/kg] (quant.)	May-25	
2011152	<b>Plastic - screening of NIAS</b>	<input type="checkbox"/> identification of various IAS & NIAS (qual.), quantification of the identified IAS & NIAS [µg/ml] (quant.)	Jul-25	
2010210	<b>Plastic - identification of granulate</b>	<input type="checkbox"/> identification of plastic granules (all qualitative)	Mar-25	
2010312	<b>Plastic - identification of multi-layer plastic films</b>	<input type="checkbox"/> identification of multi-layer films (all qualitative)	Mar-25	
2010115	<b>Plastic - identification of mono-layer plastic films</b>	<input type="checkbox"/> identification of mono-layer films (all qualitative)	Sep-25	
2010963	<b>Plastic - identification of microplastic</b>	<input type="checkbox"/> identification of microplastics (all qualitative)	Dec-25	
2010167	<b>Plastic - identification of different PA types</b>	<input type="checkbox"/> identification of PA types (all qualitative)	Mar-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>Plastics, plastic film - overall migration</b>				<a href="#">Login or register</a>
2010311	<b>Plastic - overall migration (pouch) EN 1186-3, EN 1186-2</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Sep-25	
2010073	<b>Plastic - overall migration (one-sided contact) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (dist. water) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Oct-25	
2011003	<b>Plastic - overall migration (fatty test food, one-sided contact) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ] (all quantitative)	Oct-25	
2010572	<b>Plastic - overall migration (fatty test food, total immersion) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ] (all quantitative)	Mar-25	
2010570	<b>Plastic - overall migration (article filling) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/kg], overall migration (ethanol 20%) [mg/kg], overall migration (ethanol 50%) [mg/kg], overall migration (acetic acid 3%) [mg/kg] (all quantitative)	Jun-25	
2010304	<b>Plastic - overall migration (total immersion) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (dist. water) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Nov-25	
2010322	<b>Plastic - overall migrat on synthetic samples</b>	<input type="checkbox"/> overall migrate (ethanol 10%) [mg], overall migrate (ethanol 20%) [mg], overall migrate (ethanol 50%) [mg], overall migrate (acetic acid 3%) [mg], overall migrate (dist. water) [mg] (all quantitative)	Jul-25	
2010622	<b>Plastic, silicone - overall migration using MPPO</b>	<input type="checkbox"/> overall migration: 1. migration (MPPO) [mg/dm <sup>2</sup> ], overall migration: 2. migration (MPPO) [mg/dm <sup>2</sup> ], overall migration: 3. migration (MPPO) [mg/dm <sup>2</sup> ] (all quantitative)	Jan-25	
2010574	<b>Plastic - overall migration at high temperatures (EN 1186-13)</b>	<input type="checkbox"/> overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Mar-25	
2011207	<b>Plastic - overall migration (total immersion) (EN 1186-3) (round 2)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (dist. water) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	May-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information: <a href="#">Login or register</a>	
<b>Plastics, plastic film - specific migration</b>					
2010306	<b>Plastic - specific migration 1-octene</b>	<input type="checkbox"/> 1-Octen (CAS 111-66-0) (ethanol 50%) [mg/kg], 1-Octen (CAS 111-66-0) (vegetable oil) [mg/kg], 1-Octen (CAS 111-66-0) (ethanol 95%) [mg/kg] (all quantitative)	Nov-25		
2010308	<b>Plastic - specific migration acrylonitrile (EN 13130-3)</b>	<input type="checkbox"/> acrylonitrile (ethanol 10%) [mg/kg], acrylonitrile (acetic acid 3%) [mg/kg], acrylonitrile (dist. water) [mg/kg], acrylonitrile (vegetable oil) [mg/kg] (all quantitative)	Aug-25		
2010075	<b>Plastic - specific migration caprolactam</b>	<input type="checkbox"/> caprolactam (ethanol 10%) [mg/dm <sup>2</sup> ], caprolactam (ethanol 20%) [mg/dm <sup>2</sup> ], caprolactam (ethanol 50%) [mg/dm <sup>2</sup> ], caprolactam (acetic acid 3%) [mg/dm <sup>2</sup> ], caprolactam (dist. water) [mg/dm <sup>2</sup> ], caprolactam (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Dec-25		
2010628	<b>Plastic - specific migration melamine</b>	<input type="checkbox"/> melamine (CAS 108-78-1) (ethanol 10%) [mg/kg], melamine (CAS 108-78-1) (acetic acid 3%) [mg/kg], melamine (CAS 108-78-1) (dist. water) [mg/kg], melamine (CAS 108-78-1) (vegetable oil) [mg/kg] (all quantitative)	Aug-25		
2010464	<b>Plastic - specific migration metals part 1</b>	<input type="checkbox"/> antimony (Sb) (dist. water) [mg/kg], antimony (Sb) (acetic acid 3%) [mg/kg], arsenic (As) (dist. water) [mg/kg], arsenic (As) (acetic acid 3%) [mg/kg], cadmium (Cd) (dist. water) [mg/kg], cadmium (Cd) (acetic acid 3%) [mg/kg], aluminium (Al) (dist. water) [mg/kg], aluminium (Al) (acetic acid 3%) [mg/kg], nickel (Ni) (dist. water) [mg/kg], nickel (Ni) (acetic acid 3%) [mg/kg] (all quantitative)	Oct-25		
2010466	<b>Plastic - specific migration metals part 2</b>	<input type="checkbox"/> chromium (Cr) (dist. water) [mg/kg], chromium (Cr) (acetic acid 3%) [mg/kg], lead (Pb) (dist. water) [mg/kg], lead (Pb) (acetic acid 3%) [mg/kg], iron (Fe) (dist. water) [mg/kg], iron (Fe) (acetic acid 3%) [mg/kg], barium (Ba) (dist. water) [mg/kg], barium (Ba) (acetic acid 3%) [mg/kg], zinc (Zn) (dist. water) [mg/kg], zinc (Zn) (acetic acid 3%) [mg/kg] (all quantitative)	Oct-25		
2010401	<b>Plastic - specific migration primary aromatic amines 1</b>	<input type="checkbox"/> 4,4'-methylenedianiline (CAS 101-77-9) [µg/kg], o-toluidine (CAS 95-53-4) [µg/kg], benzidine (CAS 92-87-5) [µg/kg], aniline (CAS 62-53-3) [µg/kg], o-anisidine (CAS 90-04-0) [µg/kg] (all quantitative)	May-25		
2010403	<b>Plastic - specific migration primary aromatic amines 2</b>	<input type="checkbox"/> 2-methoxyaniline (CAS 90-04-0) [µg/kg], 4-chloraniline (CAS 106-47-8) [µg/kg], 2-naphthylamine (CAS 91-59-8) [µg/kg], 3,3'-dimethylbenzidine (CAS 119-93-7) [µg/kg] (all quantitative)	Dec-25		
2010310	<b>Plastic - specific migration terephthalic acid</b>	<input type="checkbox"/> terephthalic acid (ethanol 10%) [mg/kg], terephthalic acid (ethanol 50%) [mg/kg], terephthalic acid (acetic acid 3%) [mg/kg], terephthalic acid (dist. water) [mg/kg], terephthalic acid (vegetable oil) [mg/kg] (all quantitative)	Aug-25		
2010630	<b>Plastic - specific migration vinyl acetate</b>	<input type="checkbox"/> vinyl acetate (CAS 108-05-4) (ethanol 10%) [mg/kg], vinyl acetate (CAS 108-05-4) (acetic acid 3%) [mg/kg], vinyl acetate (CAS 108-05-4) (dist. water) [mg/kg], vinyl acetate (CAS 108-05-4) (vegetable oil) [mg/kg] (all quantitative)	Mar-25		
2010925	<b>Adhesive - migration of primary aromatic amines</b>	<input type="checkbox"/> 2,6-Diamino-toluol (CAS 823-40-5) [µg/kg], 2,4-Diamino-toluol (CAS 95-80-7) [µg/kg], 4,4'-Methylenedianiline (CAS 101-77-9) [µg/kg], 2,4-Diamino-diphenylmethan (CAS 1208-52-2) [µg/kg], 2,2-Diamino-diphenylmethan (CAS 6582-52-1) [µg/kg] (all quantitative)	Jun-25		
<b>Plastics, plastic film - food simulating matrices</b>					
2010578	<b>Bisphenol A in food simulants (CEN TS 13130-13)</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) (ethanol 10%) [mg/kg], bisphenol A (CAS 80-05-7) (dist. water) [mg/kg], bisphenol A (CAS 80-05-7) (acetic acid 3%) [mg/kg] (all quantitative)	Sep-25		
2010222	<b>Di-ethylene glycol in food simulants (EN 13130-7)</b>	<input type="checkbox"/> di-ethylene glycol (ethanol 10%) [mg/kg], di-ethylene glycol (ethanol 20%) [mg/kg], di-ethylene glycol (ethanol 50%) [mg/kg], di-ethylene glycol (acetic acid 3%) [mg/kg], di-ethylene glycol (dist. water) [mg/kg], di-ethylene glycol (vegetable oil) [mg/kg] (all quantitative)	Jun-25		
2010220	<b>Ethylene glycol in food simulants (EN 13130-7)</b>	<input type="checkbox"/> ethylene glycol (ethanol 10%) [mg/kg], ethylene glycol (ethanol 20%) [mg/kg], ethylene glycol (ethanol 50%) [mg/kg], ethylene glycol (acetic acid 3%) [mg/kg], ethylene glycol (dist. water) [mg/kg], ethylene glycol (vegetable oil) [mg/kg] (all quantitative)	Jun-25		
2011101	<b>Ethylenediamine in food simulants (CEN TS 13130-21)</b>	<input type="checkbox"/> ethylene diamine (ethanol 10%) [mg/kg], ethylene diamine (dist. water) [mg/kg], ethylene diamine (acetic acid 3%) [mg/kg] (all quantitative)	Oct-25		
2011102	<b>Hexamethylenediamine in food simulants (CEN TS 13130-21)</b>	<input type="checkbox"/> hexamethylene diamine (ethanol 10%) [mg/kg], hexamethylene diamine (dist. water) [mg/kg], hexamethylene diamine (acetic acid 3%) [mg/kg] (all quantitative)	Oct-25		
2010634	<b>Acetaldehyde in food simulants</b>	<input type="checkbox"/> acetaldehyde (CAS 75-07-0) (water) [µg/l] (all quantitative)	Jul-25		
2010580	<b>Formaldehyde in food simulants (CEN TS 13130-23)</b>	<input type="checkbox"/> formaldehyde (CAS 50-00-0) (ethanol 10%) [mg/kg], formaldehyde (CAS 50-00-0) (dist. water) [mg/kg], formaldehyde (CAS 50-00-0) (acetic acid 3%) [mg/kg], formaldehyde (CAS 50-00-0) (vegetable oil) [mg/kg] (all quantitative)	Aug-25		

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>Plastics, plastic film - content determination</b>				<a href="#">Login or register</a>
2011015	<b>Plastic, silicone - volatile fractions</b>	<input type="checkbox"/> Mass fraction of volatile substances [% (m/m)] (all quantitative)	Jun-25	
2010638	<b>Plastic - 1,3 butadiene content (EN 13130-4)</b>	<input type="checkbox"/> 1,3-butadiene (CAS 106-99-0) [mg/kg polymer] (all quantitative)	May-25	
2010636	<b>Plastic - bisphenol content</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg] (all quantitative)	Apr-25	
2010965	<b>Plastic - elemental determination by XRF</b>	<input type="checkbox"/> arsenic (As) [mg/kg], bromine (Br) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg], mercury (Hg) [mg/kg], lead (Pb) [mg/kg], sulfur (S) [mg/kg], antimony (Sb) [mg/kg], tin (Sn) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Sep-25	
2010405	<b>Plastic - PAH content</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	May-25	
2010582	<b>Plastic - phthalate content</b>	<input type="checkbox"/> DBP (CAS 84-74-2) [g/100g], BBP (CAS 85-68-7) [g/100g], DEHP (CAS 117-81-7) [g/100g], DNOP (CAS 117-84-0) [g/100g], DINP (CAS 28553-12-0) [g/100g], DIDP (CAS 26761-40-0) [g/100g], DEP (CAS 84-66-2) [g/100g], DMP (CAS 131-11-3) [g/100g] (all quantitative)	Oct-25	
2010307	<b>Plastic - styrol oligomers in synthetic samples</b>	<input type="checkbox"/> 1,3-diphenylpropane (CAS 1081-75-0) [µg/kg], 2,4-diphenyl-1-butene (CAS 16606-47-6) [µg/kg], trans-1,2-diphenylcyclobutane (CAS 20071-09-4) [µg/kg], 2,4,6-triphenyl-1-hexene (CAS 18964-53-9) [µg/kg], 1-Phenyl-4-(1'-Phenylethyl)Tetralin (CAS 26681-79-8) [µg/kg], cis-1,2-Diphenylcyclobutane (CAS 7694-30-6) [µg/kg] (all quantitative)	Dec-25	
2010584	<b>Plastic - vinylchloride in synthetic sample (ISO 6401)</b>	<input type="checkbox"/> vinyl chloride (CAS 75-01-4) [mg/l] (all quantitative)	Oct-25	
2011153	<b>Plastic - melamine content</b>	<input type="checkbox"/> melamine (CAS 108-78-1) [mg/kg] (all quantitative)	Dec-25	
2010426	<b>Plastic - VOC, SVOC</b>	<input type="checkbox"/> VOC, SVOC (all quantitative)	May-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Paper and board - NEW!</b>				<a href="#">Login or register</a>
2011263	<b>Paper, cardboard - melamine</b>	<input type="checkbox"/> melamine (CAS 108-78-1) [mg/kg] (all quantitative)	Dec-25	
2011264	<b>Paper, cardboard - preservatives</b>	<input type="checkbox"/> o-Phenylphenol (CAS 90-43-7) [mg/kg], BIT (CAS 2634-33-5) [mg/kg], MI (CAS 2682-20-4) [mg/kg], CMI (CAS 26172-55-4) [mg/kg] (all quantitative)	Jul-25	
2011265	<b>Paper, cardboard - migration of PFAS</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) (ethanol 50%) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) (ethanol 50%) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) (ethanol 50%) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) (ethanol 50%) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) (ethanol 50%) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) (ethanol 50%) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) (ethanol 50%) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) (ethanol 50%) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) (ethanol 50%) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) (ethanol 50%) [µg/kg] (all quantitative)	Oct-25	
<b>Paper and board</b>				
2010318	<b>Mineral oil in cardboard</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOSH C10-C35 [mg/kg], MOAH C10-C35 [mg/kg] (all quantitative)	Nov-25	
2010586	<b>Migration of mineral oil from cardboard</b>	<input type="checkbox"/> MOSH C10-C16 [mg/dm <sup>2</sup> ], MOSH C16-C20 [mg/dm <sup>2</sup> ], MOSH C20-C25 [mg/dm <sup>2</sup> ], MOSH C25-C35 [mg/dm <sup>2</sup> ], MOAH C10-C16 [mg/dm <sup>2</sup> ], MOAH C16-C25 [mg/dm <sup>2</sup> ], MOAH C25-C35 [mg/dm <sup>2</sup> ], MOSH C10-C35 [mg/dm <sup>2</sup> ], MOAH C10-C35 [mg/dm <sup>2</sup> ] (all quantitative)	Mar-25	
2010620	<b>Migration from paper, board using MPPO (EN 14338)</b>	<input type="checkbox"/> overall migration (MPPO) [mg/dm <sup>2</sup> ] (all quantitative)	Nov-25	
Proficiency Test for the analysis of mineral oil in foods, such as edible fats and oils, cocoa butter and chocolate, cheese and milk powder, can be found in our catalogue 'Food and Feed' or in the online catalogue (ODIN).				
2011124	<b>Paper, cardboard - PFAS</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluorundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg] (all quantitative)	Jul-25	
2010642	<b>Paper, cardboard - formaldehyde (EN 1541)</b>	<input type="checkbox"/> formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	Jun-25	
2010644	<b>Paper, cardboard - glyoxal</b>	<input type="checkbox"/> glyoxal (CAS 107-22-2) [mg/kg] (all quantitative)	May-25	
2011147	<b>Paper, board - primary aromatic amines (EN 17163)</b>	<input type="checkbox"/> o-toluidine (CAS 95-53-4) [µg/l], benzidine (CAS 92-87-5) [µg/l], aniline (CAS 62-53-3) [µg/l], 3,3'-dichlorobenzidine (CAS 91-94-1) [µg/l], 2-methoxyaniline (CAS 90-04-0) [µg/l], 4-chloraniline (CAS 106-47-8) [µg/l], 2-naphthylamine (CAS 91-59-8) [µg/l], 3,3'-dimethylbenzidine (CAS 119-93-7) [µg/l] (all quantitative)	Sep-25	
2011148	<b>Paper, board - phthalates (EN 16453)</b>	<input type="checkbox"/> DINP (CAS 28553-12-0) [mg/l], DEHP (CAS 117-81-7) [mg/l], DNOP (CAS 117-84-0) [mg/l], DIDP (CAS 26761-40-0) [mg/l], BBP (CAS 85-68-7) [mg/l], DBP (CAS 84-74-2) [mg/l], DIPB (CAS 84-69-5) [mg/l], DPP (CAS 131-18-0) [mg/l], DIHP (CAS 71888-89-6) [mg/l], DMEP (CAS 117-82-8) [mg/l] (all quantitative)	Jun-25	
2010452	<b>Paper, cardboard - 1,3-DCP and 3-MCPD</b>	<input type="checkbox"/> 1,3-dichloro-2-propanol (CAS 96-23-1) [µg/l], 3-monochloro-1,2-propanediol (CAS 96-24-2) [µg/l] (all quantitative)	Jun-25	
2010456	<b>Paper, cardboard - cadmium, lead in aqueous extract (EN 12498)</b>	<input type="checkbox"/> cadmium (Cd) [µg/l], lead (Pb) [µg/l] (all quantitative)	Jul-25	
2011149	<b>Paper, board - mercury in aqueous extract (EN 12497)</b>	<input type="checkbox"/> mercury (Hg) [µg/l] (all quantitative)	Nov-25	
2011099	<b>Paper, cardboard - aluminium</b>	<input type="checkbox"/> aluminium (Al) [mg/l] (all quantitative)	Aug-25	
2010640	<b>Paper, board - pH value (ISO 6588-1, ISO 6588-2)</b>	<input type="checkbox"/> pH value (cold extraction) [ - ], pH value (hot extraction) [ - ] (all quantitative)	Nov-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>Paper and board</b>				<a href="#">Login or register</a>
2010646	<b>Colour fastness of dyed paper (EN 646)</b>	<input type="checkbox"/> colour fastness (dist. Water) [-], colour fastness (acetic acid 3%) [-], colour fastness (olive oil) [-], colour fastness (alkali salt solution) [-] (all quantitative)	May-25	
2010648	<b>Colour fastness of fluorescent whitened paper (EN 648)</b>	<input type="checkbox"/> colour fastness (dist. Water) [-], colour fastness (acetic acid 3%) [-], colour fastness (olive oil) [-], colour fastness (alkali salt solution) [-] (all quantitative)	May-25	
2010448	<b>Testing of benzophenone in food simulating matrix</b>	<input type="checkbox"/> benzophenon (CAS 119-61-9) (ethanol 10%) [mg/kg], benzophenon (CAS 119-61-9) (ethanol 95%) [mg/kg] (all quantitative)	Apr-25	
2010454	<b>Paper, cardboard - PCBs (ISO 15318)</b>	<input type="checkbox"/> PCB 52 (CAS 35693-99-3) [mg/kg], PCB 101 (CAS 37680-73-2) [mg/kg], PCB 138 (CAS 35065-28-2) [mg/kg], PCB 28 (CAS 7012-37-5) [mg/kg], PCB 153 (CAS 35065-27-1) [mg/kg], PCB 180 (CAS 35065-29-3) [mg/kg] (all quantitative)	Sep-25	
2010460	<b>Thermal paper - bisphenol S</b>	<input type="checkbox"/> bisphenol S (CAS 80-09-1) [mg/kg paper] (all quantitative)	Aug-25	
2011011	<b>Paper, cardboard - total chlorine and organically bound chlorine (ISO 11480)</b>	<input type="checkbox"/> total chlorine [mg/kg], organically bound chlorine [mg/kg] (all quantitative)	Jul-25	
2010450	<b>Paper, cardboard - DIPN (EN 14719)</b>	<input type="checkbox"/> DIPN [mg/kg] (all quantitative)	May-25	
2010442	<b>Paper, cardboard - overall migration (fatty test food, solvent extract) (EN 15519)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ] (all quantitative)	Apr-25	
2011023	<b>Pulps - Kappa number (ISO 302)</b>	<input type="checkbox"/> Kappa number (all quantitative)	Jun-25	
<b>Printing inks</b>				
2010314	<b>Migration of printing ink constituents (round 1)</b>	<input type="checkbox"/> CAS 94108-97-1 (ethanol 50%) [µg/kg], CAS 94108-97-1 (ethanol 95%) [µg/kg], CAS 57472-68-1 (ethanol 50%) [µg/kg], CAS 57472-68-1 (ethanol 95%) [µg/kg], CAS 119313-12-1 (ethanol 50%) [µg/kg], CAS 119313-12-1 (ethanol 95%) [µg/kg], CAS 84434-11-7 (ethanol 50%) [µg/kg], CAS 84434-11-7 (ethanol 95%) [µg/kg] (all quantitative)	Jul-25	
2010316	<b>Migration of printing ink constituents (round 2)</b>	<input type="checkbox"/> CAS 272460-97-6 (ethanol 50%) [µg/kg], CAS 272460-97-6 (ethanol 95%) [µg/kg], CAS 162881-26-7 (ethanol 50%) [µg/kg], CAS 162881-26-7 (ethanol 95%) [µg/kg], CAS 42978-66-5 (ethanol 50%) [µg/kg], CAS 42978-66-5 (ethanol 95%) [µg/kg], CAS 15625-89-5 (ethanol 50%) [µg/kg], CAS 15625-89-5 (ethanol 95%) [µg/kg] (all quantitative)	Nov-25	
3010019	<b>Printing ink constituents synthetic samples - initiators and monomers</b>	<input type="checkbox"/> CAS 272460-97-6 [µg/kg], CAS 162881-26-7 [µg/kg], CAS 119344-86-4 [µg/kg], CAS 84434-11-7 [µg/kg], Di-TMPTA (CAS 94108-97-1) [µg/kg], DPGDA (CAS 57472-68-1) [µg/kg], TPGDA (CAS 42978-66-5) [µg/kg], TMPTA (CAS 15625-89-5) [µg/kg] (all quantitative)	Nov-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>Kitchen utensils and dishes - NEW!</b>				<a href="#">Login or register</a>
2011274	<b>Metals and alloys - migration of metals part 1</b>	<input type="checkbox"/> aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag) [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Jun-25	
In this PT, the migration of selected metals is to be tested by filling with simulant artificial tap water (acc. to EN 16889:2016-10) and 0.5 % citric acid (based on the EDQM Guide 2013).				
2011275	<b>Metals and alloys - migration of metals part 2</b>	<input type="checkbox"/> envelope volume [cm <sup>3</sup> ], aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag) [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Nov-25	
In this PT, the migration of selected metals is to be tested by filling with simulant artificial tap water (acc. to EN 16889:2016-10) and 0.5 % citric acid (based on the EDQM Guide 2013).				
<b>Kitchen utensils and dishes</b>				
2010407	<b>Release of metals from enamel (ISO 4531)</b>	<input type="checkbox"/> cadmium (Cd) [µg/l], cobalt (Co) [µg/l], nickel (Ni) [µg/l], lead (Pb) [µg/l], lithium (Li) [µg/l], aluminium (Al) [µg/l], manganese (Mn) [µg/l] (all quantitative)	Oct-25	
2010411	<b>Ceramics - release of lead and cadmium (EN 1388-1)</b>	<input type="checkbox"/> lead (Pb) [mg/l], cadmium (Cd) [mg/l] (all quantitative)	Oct-25	
2010414	<b>Ceramics - specific migration metals</b>	<input type="checkbox"/> cobalt (Co) (4% acetic acid) [mg/l], cobalt (Co) (0,5% citric acid) [mg/l], aluminium (Al) (4% acetic acid) [mg/l], aluminium (Al) (0,5% citric acid) [mg/l], arsenic (As) (4% acetic acid) [mg/l], arsenic (As) (0,5% citric acid) [mg/l], barium (Ba) (4% acetic acid) [mg/l], barium (Ba) (0,5% citric acid) [mg/l], chromium (Cr) (4% acetic acid) [mg/l], chromium (Cr) (0,5% citric acid) [mg/l], nickel (Ni) (4% acetic acid) [mg/l], nickel (Ni) (0,5% citric acid) [mg/l], antimony (Sb) (4% acetic acid) [mg/l], antimony (Sb) (0,5% citric acid) [mg/l], zinc (Zn) (4% acetic acid) [mg/l], zinc (Zn) (0,5% citric acid) [mg/l] (all quantitative)	Oct-25	
2010171	<b>Metal - elemental determination by XRF</b>	<input type="checkbox"/> nickel (Ni) [%], copper (Cu) [%], zinc (Zn) [%], lead (Pb) [%], gold (Au) [%], silver (Ag) [%], manganese (Mn) [%], iron (Fe) [%], tin (Sn) [%], cadmium (Cd) [%], chromium (Cr) [%], mercury (Hg) [%] (all quantitative)	Jul-25	
<b>Rubber</b>				
2010853	<b>Rubber - PAH content</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], anthracene (CAS 120-12-7) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], fluoranthene (CAS 206-44-0) [mg/kg] (all quantitative)	Sep-25	
2011130	<b>Rubber - overall migration (one-sided contact)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Jan-25	
2011131	<b>Rubber - overall migration (total immersion)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ] (all quantitative)	Oct-25	
2011132	<b>Rubber - overall migration (substitute test, one-sided contact)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ] (all quantitative)	Dec-25	
2011133	<b>Rubber - specific migration metals</b>	<input type="checkbox"/> zinc (Zn) (dist. water) [mg/kg], zinc (Zn) (acetic acid 3%) [mg/kg], aluminium (Al) (dist. water) [mg/kg], aluminium (Al) (acetic acid 3%) [mg/kg], lead (Pb) (dist. water) [mg/kg], lead (Pb) (acetic acid 3%) [mg/kg] (all quantitative)	Nov-25	
2011134	<b>Rubber - specific migration antioxidant</b>	<input type="checkbox"/> poly(dicyclopentadiene-co-p-cresole) (CAS 68610-51-5) (ethanol 95%) [mg/kg], poly(dicyclopentadiene-co-p-cresole) (CAS 68610-51-5) (ISO octane) [mg/kg] (all quantitative)	Jan-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>Cosmetic - NEW!</b>				<a href="#">Login or register</a>
2011272	<b>Cosmetics - phthalates</b>	<input type="checkbox"/> MnHexP (CAS 24539-57-9) [mg/kg], DnHexP (CAS 84-75-3) [mg/kg], DBP (CAS 84-74-2) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DMEP (CAS 117-82-8) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIPP (CAS 605-50-5) [mg/kg] (all quantitative)	Sep-25	
2011273	<b>Cosmetics - PFAS</b>	<input type="checkbox"/> total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], total fluor (TF) [mg/kg] (all quantitative)	Jun-25	
<p>PFAS are subject to various restrictions in the European Union. The placing on the market and use of PFOS, PFOA and PFHxS, for example, is regulated in the POP Regulation (Regulation (EU) 2019/1021), while C9-C14 PFCAs are subject to the provisions of the REACH Regulation (Regulation (EC) No 1907/2006). This proficiency test offers you the opportunity to check your analyses of a large number of perfluorinated compounds.</p>				
<b>Cosmetic</b>				
2010700	<b>Cosmetics - heavy metals (ISO 21392)</b>	<input type="checkbox"/> lead (Pb) [mg/kg], arsenic (As) [mg/kg], antimony (Sb) [mg/kg], nickel (Ni) [mg/kg], cobalt (Co) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg] (all quantitative)	Nov-25	
2010206	<b>Care products</b>	<input type="checkbox"/> Methyl 4-hydroxybenzoate calculated as acid [g/100g], Ethyl 4-hydroxybenzoate calculated as acid [g/100g], Propyl 4-hydroxybenzoate calculated as acid [g/100g], n-Butyl 4-hydroxybenzoate calculated as acid [g/100g], 2-phenoxyethanol [g/100g], benzoic acid [g/100g], sorbic acid [g/100g], methylisothiazolinone [mg/kg], Isobutyl 4-hydroxybenzoate calculated as acid [g/100g] (all quantitative)	Oct-25	
3010015	<b>Shampoo, lotion</b>	<input type="checkbox"/> density [g/ml], pH value [-], dry matter [g/100g], water content [g/100g], urea [g/100g], aw value [-] (all quantitative)	Aug-25	
2010201	<b>Cream, lotion</b>	<input type="checkbox"/> dexpanthenol [g/100g], α-tocopherolacetat [g/100g], retinolpalmitate [g/100g] (all quantitative)	Dec-25	
3010017	<b>Dental care - total fluoride</b>	<input type="checkbox"/> total fluoride [g/100g] (all quantitative)	Oct-25	
2010332	<b>Cosmetics - metals</b>	<input type="checkbox"/> aluminium (Al) [mg/kg], copper (Cu) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Apr-25	
2010334	<b>Cosmetics - UV filters</b>	<input type="checkbox"/> EHS (CAS 118-60-5) [g/100g], BMDM (CAS 70356-09-1) [g/100g], EHT (CAS 88122-99-0) [g/100g], PBSA (CAS 27503-81-7) [g/100g], OC calculated as acid (CAS 6197-30-4) [g/100g], titanium dioxide (CAS 13463-67-7) [g/100g], HMS (CAS 118-56-9) [g/100g], BEMT (CAS 187393-00-6) [g/100g], DHHB (CAS 302776-68-7) [g/100g], DEBT (CAS 154702-15-5) [g/100g], PDTA (CAS 180898-37-7) [g/100g], TDSA (CAS 90457-82-2) [g/100g], BZ4 (CAS 4065-45-6) [g/100g], BZ3 (CAS 131-57-7) [g/100g], IMC (CAS 71617-10-2) [g/100g], MBC (CAS 36861-47-9) [g/100g], EHDP (CAS 21245-02-3) [g/100g], EHMC (CAS 5466-77-3) [g/100g], MBBT (CAS 103597-45-1) [g/100g], P15 (CAS 207574-74-1) [g/100g] (all quantitative)	Jun-25	
2010336	<b>Cosmetics - PAHs</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], anthracene (CAS 120-12-7) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], naphthalene (CAS 91-20-3) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Jul-25	
2010558	<b>Cosmetics - mineral oil</b>	<input type="checkbox"/> MOSH C10-C50 [g/100g], MOAH C10-C50 [g/100g] (all quantitative)	Dec-25	
2010650	<b>Cosmetics - anti-dandruff products</b>	<input type="checkbox"/> pirocton-olamine (CAS 68890-66-4) [g/100g], zinc pyrithione (CAS 13463-41-7) [g/100g] (all quantitative)	Dec-25	
2010652	<b>Cosmetics - solvents</b>	<input type="checkbox"/> acetone (CAS 67-64-1) [g/100g], ethanol (CAS 64-17-5) [g/100g], propylene glycol (CAS 57-55-6) [g/100g], isopropyl (CAS 67-63-0) [g/100g] (all quantitative)	Dec-25	
2010397	<b>Self-tanner</b>	<input type="checkbox"/> free formaldehyde (CAS 50-00-0) [mg/kg], dihydroxyacetone (CAS 96-26-4) [g/100 g] (all quantitative)	Jun-25	
2011022	<b>Cosmetics - rheology (ISO 3219)</b>	<input type="checkbox"/> viscosity (all quantitative)	Jun-25	
2011100	<b>Cosmetics - 3-iodoprop-2-yn-1-yl butylcarbamate (IPBC)</b>	<input type="checkbox"/> IPBC (CAS 55406-53-6) [g/100 g] (all quantitative)	Sep-25	
2011129	<b>Cosmetics - AOX</b>	<input type="checkbox"/> AOX [mg/kg calculated as chlorine] (all quantitative)	Aug-25	
2011141	<b>Cosmetic products – pesticides</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Nov-25	
2011158	<b>Cosmetic products - allergenic fragrances</b>	<input type="checkbox"/> identification of various allergenic fragrances (qual.), quantification of the identified fragrances [mg/kg] (quant.)	Oct-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information: <a href="#">Login or register</a>
<b>Leather - NEW!</b>				
2011251	<b>Leather - chromium (VI)</b>	<input type="checkbox"/> chromium VI (Cr VI) [mg/kg] (all quantitative)	Oct-25	
2011252	<b>Footwear materials - phthalates</b>	<input type="checkbox"/> DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg] (all quantitative)	Aug-25	
2011253	<b>Footwear materials - N-nitrosamines</b>	<input type="checkbox"/> NDBzA (CAS 5336-53-8) [mg/kg], NDBA (CAS 924-16-3) [mg/kg], NDELA (CAS 1116-54-7) [mg/kg], NDEA (CAS 55-18-5) [mg/kg], NDIBA (CAS 997-95-5) [mg/kg], NDINA (CAS 1027995-62-7) [mg/kg], NDIPA (CAS 601-77-4) [mg/kg], NDMA (CAS 62-75-9) [mg/kg], NDPA (CAS 621-64-7) [mg/kg], NMEA (CAS 10595-95-6) [mg/kg], NMOR (CAS 59-89-2) [mg/kg], NEPhA (CAS 612-64-6) [mg/kg], NMPHA (CAS 614-00-6) [mg/kg], NPIP (CAS 100-75-4) [mg/kg], NPYR (CAS 930-55-2) [mg/kg] (all quantitative)	Sep-25	
<b>Leather</b>				
2010189	<b>Leather – total metal content (ISO 17072-2)</b>	<input type="checkbox"/> chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], zirconium (Zr) [mg/kg], iron (Fe) [mg/kg], aluminium (Al) [mg/kg], titanium (Ti) [mg/kg] (all quantitative)	May-25	
2010192	<b>Leather - volatile matter (ISO 4684)</b>	<input type="checkbox"/> Mass fraction of volatile substances [%] (all quantitative)	Jun-25	
2010198	<b>Leather - aromatic amines from azo dyes (ISO 17234-1)</b>	<input type="checkbox"/> o-toluidine (CAS 95-53-4) [mg/kg], o-anisidine (CAS 90-04-0) [mg/kg], 5-nitro-o-toluidine (CAS 99-55-8) [mg/kg] (all quantitative)	Jul-25	
2010200	<b>Leather - 4-aminoazobenzene (ISO 17234-2)</b>	<input type="checkbox"/> 4-aminoazobenzene (CAS 60-09-3) [mg/kg] (all quantitative)	Jul-25	
2010211	<b>Leather – alkylphenols, ethoxylates (ISO 18218-1,-2)</b>	<input type="checkbox"/> nonylphenol ethoxylat (CAS 68412-54-4) [mg/kg], octylphenol ethoxylate (CAS 9002-93-1) [mg/kg], 4-nonylphenol isomer mixture (CAS 84852-15-3) [mg/kg], 4-tert-octylphenol (CAS 140-66-9) [mg/kg] (all quantitative)	Aug-25	
2011145	<b>Leather - bisphenols (ISO 11936)</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [mg/kg], bisphenol B (CAS 77-40-7) [mg/kg], bisphenol F (CAS 620-92-8) [mg/kg], bisphenol S (CAS 80-09-1) [mg/kg] (all quantitative)	Apr-25	
2011143	<b>Leather - PFAS (ISO 23702-1)</b>	<input type="checkbox"/> total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg] (all quantitative)	Sep-25	
2011005	<b>Footwear materials - dimethyl fumarate (DMFU) (ISO 16186)</b>	<input type="checkbox"/> Dimethyl fumarate (CAS 624-49-7) [mg/kg] (all quantitative)	Aug-25	
2011007	<b>Footwear materials - dimethylformamide (DMF) (ISO 16189)</b>	<input type="checkbox"/> Dimethylformamide (CAS 68-12-2) [mg/kg] (all quantitative)	Aug-25	
2011146	<b>Footwear materials - PAHs (ISO 16190)</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Oct-25	
2010265	<b>Footwear - organotin compounds</b>	<input type="checkbox"/> n-butyltintrichloride (as cation) (CAS 1118-46-3) [µg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [µg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [µg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [µg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [µg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [µg/kg], tricyclohexyltinchloride (as cation) (CAS 3091-32-5) [µg/kg], tetra-n-butyltin (CAS 1461-25-2) [µg/kg] (all quantitative)	Aug-25	
2010202	<b>Leather – chlorophenols (ISO 17070)</b>	<input type="checkbox"/> 4-chlorphenol (CAS 106-48-9) [mg/kg], 2,4-dichlorphenol (CAS 120-83-2) [mg/kg], 2,6-dichlorophenol (CAS 87-65-0) [mg/kg], 2,4,5-trichlorophenol (CAS 95-95-4) [mg/kg], 2,4,6-trichlorophenol (CAS 88-06-2) [mg/kg], 2,3,4,6-tetrachlorphenol (CAS 58-90-2) [mg/kg], pentachlorophenol (CAS 87-86-5) [mg/kg] (all quantitative)	Nov-25	
2010196	<b>Leather – formaldehyde content (ISO 17226-1)</b>	<input type="checkbox"/> free and hydrolysed formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	Oct-25	
2011122	<b>Leather - pesticide residues content (ISO 22517)</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Oct-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information: <a href="#">Login or register</a>
<b>Textiles - NEW!</b>				
2011262	<b>Textiles - bisphenols</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [mg/kg], bisphenol B (CAS 77-40-7) [mg/kg], bisphenol F (CAS 620-92-8) [mg/kg], bisphenol S (CAS 80-09-1) [mg/kg] (all quantitative)	May-25	
<b>Textiles</b>				
2010185	<b>Textiles - formaldehyde (ISO 14184-1)</b>	<input type="checkbox"/> free and hydrolysed formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)	May-25	
2010328	<b>Textiles - aromatic amines from azo dyes (ISO 14362-1)</b>	<input type="checkbox"/> o-toluidine (CAS 95-53-4) [mg/kg], o-anisidine (CAS 90-04-0) [mg/kg], o-dianisidine (CAS 119-90-4) [mg/kg] (all quantitative)	Nov-25	
2011013	<b>Textiles - extractable dyestuffs (ISO 16373-2)</b>	<input type="checkbox"/> identification of various allergenic and carcinogenic dyes (qual.), quantification of the identified dyes (quant.)	Jun-25	
2010181	<b>Textiles - phthalate content (ISO 14389)</b>	<input type="checkbox"/> DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIPB (CAS 84-69-5) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIHP (CAS 71888-89-6) [mg/kg], DMEP (CAS 117-82-8) [mg/kg] (all quantitative)	Aug-25	
2010179	<b>Textiles - metal content (EN 16711-1)</b>	<input type="checkbox"/> chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], copper (Cu) [mg/kg] (all quantitative)	Sep-25	
2010324	<b>Textiles - extractable metals (EN 16711-2)</b>	<input type="checkbox"/> chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], antimony (Sb) [mg/kg], arsenic (As) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], barium (Ba) [mg/kg], manganese (Mn) [mg/kg], selenium (Se) [mg/kg], zinc (Zn) [mg/kg] (all quantitative)	Jul-25	
2010430	<b>Textiles - lead release (saliva simulant, EN 16711-3)</b>	<input type="checkbox"/> lead release [µg/cm <sup>2</sup> /h] (all quantitative)	May-25	
2010173	<b>Textiles - organotin compounds (ISO 22744-1; 22744-2)</b>	<input type="checkbox"/> n-Butyltintrichloride (as cation) (CAS 1118-46-3) [µg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [µg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [µg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [µg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [µg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [µg/kg], tricyclohexyltinchloride (as cation) (CAS 3091-32-5) [µg/kg], tetra-n-butyltin (CAS 1461-25-2) [µg/kg] (all quantitative)	Oct-25	
2010175	<b>Textiles - PFAS</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [mg/kg], total perfluorooctanoic acid (CAS 335-67-1) [mg/kg], total perfluorononanoic acid (CAS 375-95-1) [mg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [mg/kg], total perfluorohexanoic acid (CAS 307-24-4) [mg/kg], total perfluorodecanoic acid (CAS 335-76-2) [mg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [mg/kg], total perfluorododecanoic acid (CAS 307-55-1) [mg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [mg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [mg/kg], 6:2 FTOH (CAS 647-42-7) [mg/kg], 8:2 FTOH (CAS 678-39-7) [mg/kg], 10:2 FTOH (CAS 865-86-1) [mg/kg], 12:2 FTOH (CAS 39239-77-5) [mg/kg], 6:2 FTA (CAS 17527-29-6) [mg/kg], 8:2 FTA (CAS 27905-45-9) [mg/kg], 10:2 FTA (CAS 17741-60-5) [mg/kg], 6:2 FTMA (CAS 2144-53-8) [mg/kg], 8:2 FTMA (CAS 1996-88-9) [mg/kg], total fluor (TF) [mg/kg] (all quantitative)	Oct-25	
2010527	<b>Textiles - PAH (EN 17132)</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], naphthalene (CAS 91-20-3) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Aug-25	
2010226	<b>Textiles - alkylphenols, ethoxylates (ISO 21084)</b>	<input type="checkbox"/> nonylphenol ethoxylat (CAS 68412-54-4) [mg/kg], octylphenol ethoxylate (CAS 9002-93-1) [mg/kg], 4-nonylphenol isomer mixture (CAS 84852-15-3) [mg/kg], 4-tert-octylphenol (CAS 140-66-9) [mg/kg] (all quantitative)	Nov-25	
2010326	<b>Textiles - phosphorus flame retardants (ISO 17881-2)</b>	<input type="checkbox"/> tributyl phosphate (CAS 126-73-8) [mg/kg], o-triskresyl phosphate (CAS 78-30-8) [mg/kg], tris(2-chloroethyl)-phosphate (CAS 115-96-8) [mg/kg], tris(2,3-dibrompropyl)-phosphate (CAS 126-72-7) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg] (all quantitative)	Dec-25	
2010935	<b>Mineral oil in jute bags</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg] (all quantitative)	Oct-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information: <a href="#">Login or register</a>
<b>Textiles</b>				
2011017	<b>Textiles - chlorobenzenes and chlorotoluenes (EN 17137)</b>	<input type="checkbox"/> 2-Chlorotoluene (CAS 95-49-8) [mg/kg], 3-Chlorotoluene (CAS 108-41-8) [mg/kg], 4-Chlorotoluene (CAS 106-43-4) [mg/kg], 2,3-Dichlorotoluene (CAS 32768-54-0) [mg/kg], 2,4-Dichlorotoluene (CAS 95-73-8) [mg/kg], 2,5-Dichlorotoluene (CAS 19398-61-9) [mg/kg], 2,6-Dichlorotoluene (CAS 118-69-4) [mg/kg], 3,4-Dichlorotoluene (CAS 95-75-0) [mg/kg], 2,3,6-Trichlorotoluene (CAS 2077-46-5) [mg/kg], 2,4,5-Trichlorotoluene (CAS 6639-30-1) [mg/kg], Pentachlorotoluene (CAS 877-11-2) [mg/kg], 1,2-Dichlorobenzene (CAS 95-50-1) [mg/kg], 1,3-Dichlorobenzene (CAS 541-73-1) [mg/kg], 1,4-Dichlorobenzene (CAS 106-46-7) [mg/kg], 1,2,3-Trichlorobenzene (CAS 87-61-6) [mg/kg], 1,2,4-Trichlorobenzene (CAS 120-82-1) [mg/kg], 1,3,5-Trichlorobenzene (CAS 108-70-3) [mg/kg], 1,2,3,4-Tetrachlorobenzene (CAS 634-66-2) [mg/kg], 1,2,3,5-Tetrachlorobenzene (CAS 634-90-2) [mg/kg], 1,2,4,5-Tetrachlorobenzene (CAS 95-94-3) [mg/kg] (all quantitative)	May-25	
2010227	<b>Textiles - chlorophenoles</b>	<input type="checkbox"/> 4-chlorphenol (CAS 106-48-9) [mg/kg], 2,4-dichlorphenol (CAS 120-83-2) [mg/kg], 2,6-dichlorophenol (CAS 87-65-0) [mg/kg], 2,4,5-trichlorophenol (CAS 95-95-4) [mg/kg], 2,4,6-trichlorophenol (CAS 88-06-2) [mg/kg], 2,3,4,6-tetrachlorphenol (CAS 58-90-2) [mg/kg], pentachlorophenol (CAS 87-86-5) [mg/kg] (all quantitative)	Nov-25	
2011144	<b>Textiles - rPET share</b>	<input type="checkbox"/> rPET share [%] (all quantitative)	Jul-25	
2010177	<b>Textiles - pesticides</b>	<input type="checkbox"/> identification of various pesticides (qual.), quantification of the identified pesticides [mg/kg] (quant.)	Sep-25	
<b>Tattoo ink - NEW!</b>				
2011269	<b>Tattoo ink - PAKs</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg] (all quantitative)	Dec-25	
2011270	<b>Tattoo ink - residual solvents</b>	<input type="checkbox"/> benzene (CAS 71-43-2) [µg/kg], toluene (CAS 108-88-3) [µg/kg], ethylbenzen (CAS 100-41-1) [µg/kg], xylene (CAS 1330-20-7) [µg/kg] (all quantitative)	Dec-25	
2011271	<b>Tattoo ink- N-nitrosamine</b>	<input type="checkbox"/> NDPA (CAS 621-64-7) [µg/kg], NDMA (CAS 62-75-9) [µg/kg], NDELA (CAS 1116-54-7) [µg/kg] (all quantitative)	Dec-25	
<b>Tattoo ink</b>				
2010338	<b>Tattoo ink - preservatives</b>	<input type="checkbox"/> BIT (CAS 2634-33-5) [mg/kg] (all quantitative)	Apr-25	
2010340	<b>Tattoo ink - aromatic amines</b>	<input type="checkbox"/> aniline (CAS 62-53-3) [mg/kg], o-anisidine (CAS 90-04-0) [mg/kg], o-toluidine (CAS 95-53-4) [mg/kg], 5-nitro-o-toluidine (CAS 99-55-8) [mg/kg] (all quantitative)	Apr-25	
2010560	<b>Tattoo ink - elements</b>	<input type="checkbox"/> nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], zinc (Zn) [mg/kg], arsenic (As) [mg/kg], iron (Fe) [mg/kg], aluminium (Al) [mg/kg], copper (Cu) [mg/kg], mercury (Hg) [mg/kg] (all quantitative)	Apr-25	

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## Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>Toys - NEW!</b>				<a href="#">Login or register</a>
2011266	<b>Toys - phthalates (CPSC-CH-C1001-09.4)</b>	<input type="checkbox"/> DBP (CAS 84-74-2) [% (w/w)], DIBP (CAS 84-69-5) [% (w/w)], DPP (CAS 131-18-0) [% (w/w)], DHEXP (CAS 84-75-3) [% (w/w)], DCHP (CAS 84-61-7) [% (w/w)], DEHP (CAS 117-81-7) [% (w/w)], BBP (CAS 85-68-7) [% (w/w)] (all quantitative)	Jun-25	
2011267	<b>Toys - lead in paint (CPSC-CH-E1003-09.1)</b>	<input type="checkbox"/> lead (Pb) [µg/g] (all quantitative)	Jun-25	
2011268	<b>Toys, elastomers - N-nitrosamine</b>	<input type="checkbox"/> NDELA (CAS 1116-54-7) [µg/kg], NDMA (CAS 62-75-9) [µg/kg], NDEA (CAS 55-18-5) [µg/kg], NDPA (CAS 621-64-7) [µg/kg], NDBA (CAS 924-16-3) [µg/kg], NDiBA (CAS 997-95-5) [µg/kg], NDiNA (CAS 1207995-62-7) [µg/kg], NMOR (CAS 59-89-2) [µg/kg], NPIP (CAS 100-75-4) [µg/kg], NDBzA (CAS 5336-53-8) [µg/kg], NMPPhA (CAS 614-00-6) [µg/kg], NEPhA (CAS 612-64-6) [µg/kg] (all quantitative)	Nov-25	
<b>Toys</b>				
2010562	<b>Scrapped-off materials - elements (EN 71-3)</b>	<input type="checkbox"/> tin (Sn) [mg/kg], zinc (Zn) [mg/kg], nickel (Ni) [mg/kg], strontium (Sr) [mg/kg], antimony (Sb) [mg/kg], barium (Ba) [mg/kg], cadmium (Cd) [mg/kg], cobalt (Co) [mg/kg], lead (Pb) [mg/kg], chromium III (Cr III) [mg/kg], chromium VI (Cr VI) [mg/kg], chromium (Cr) [mg/kg], aluminium (Al) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], manganese (Mn) [mg/kg], mercury (Hg) [mg/kg], selenium (Se) [mg/kg] (all quantitative)	Nov-25	
2011157	<b>Toys - organotin, scrapped-off materials (EN 71-3)</b>	<input type="checkbox"/> methyltin trichloride (as cation) (CAS 993-16-8) [mg/kg], dimethyltin dichloride (as cation) (CAS 753-73-1) [mg/kg], n-Butyltintrichloride (as cation) (CAS 1118-46-3) [mg/kg], tri-n-butyltinchloride (as cation) (CAS 1461-22-9) [mg/kg], n-octyltintrichloride (as cation) (CAS 3091-25-6) [mg/kg], di-n-octyltindichloride (as cation) (CAS 3542-36-7) [mg/kg], di-n-butyltindichloride (as cation) (CAS 683-18-1) [mg/kg], di-n-propyltindichloride (as cation) (CAS 867-36-7) [mg/kg], tetra-n-butyltin (CAS 1461-25-2) [mg/kg], diphenyltindichloride (as cation) (CAS 1135-99-5) [mg/kg], triphenyltinchloride (as cation) (CAS 639-58-7) [mg/kg] (all quantitative)	Sep-25	
2010299	<b>Wobble mass, slime - boron (EN 71-3)</b>	<input type="checkbox"/> boron (B) [mg/kg] (all quantitative)	Sep-25	
2010309	<b>Finger paint - primary aromatic amines (EN 71-7)</b>	<input type="checkbox"/> 4,4'-methylenedianiline (CAS 101-77-9) [mg/kg], o-toluidine (CAS 95-53-4) [mg/kg], benzidine (CAS 92-87-5) [mg/kg], aniline (CAS 62-53-3) [mg/kg], 3,3'-dichlorobenzidine (CAS 91-94-1) [mg/kg], 2-naphthylamine (CAS 91-59-8) [mg/kg] (all quantitative)	Dec-25	
2010440	<b>Finger paint - preservatives (EN 71-7)</b>	<input type="checkbox"/> benzoic acid [g/100g], sorbic acid [g/100g], Methyl 4-hydroxybenzoate calculated as acid [g/100g], Ethyl 4-hydroxybenzoate calculated as acid [g/100g], Propyl 4-hydroxybenzoate calculated as acid [g/100g], n-Butyl 4-hydroxybenzoate calculated as acid [g/100g], Isobutyl 4-hydroxybenzoate calculated as acid [g/100g], 2-phenoxyethanol [g/100g] (all quantitative)	Aug-25	
2011154	<b>Toys - migration of plasticizers (EN 71-9)</b>	<input type="checkbox"/> triphenylphosphate (CAS 115-86-6) [mg/l], tri-o-tolylphosphate (CAS 78-30-8) [mg/l], tri-m-tolylphosphate (CAS 563-04-2) [mg/l], tri-p-tolylphosphate (CAS 78-32-0) [mg/l] (all quantitative)	Sep-25	
2010626	<b>Liquid toys - preservatives (EN 71-10, EN 71-11)</b>	<input type="checkbox"/> BIT (CAS 2634-33-5) [mg/kg], MI (CAS 2682-20-4) [mg/kg] (all quantitative)	Apr-25	
2011155	<b>Toys - wood preservative (EN 71-10, EN 71-11)</b>	<input type="checkbox"/> 2,4-dichlorophenol (CAS 120-83-2) [mg/kg], 2,4,6-trichlorophenol (CAS 88-06-2) [mg/kg], 2,4,5-trichlorophenol (CAS 95-95-4) [mg/kg], 2,3,4,6-tetrachlorophenol (CAS 58-90-2) [mg/kg], pentachlorophenol (CAS 87-86-5) [mg/kg], lindane (CAS 58-89-9) [mg/kg], cyfluthrin (CAS 68359-37-5) [mg/kg], cypermethrin (CAS 52315-07-8) [mg/kg], deltamethrin (CAS 52918-63-5) [mg/kg], permethrin (CAS 52645-53-1) [mg/kg] (all quantitative)	Jun-25	
2010257	<b>Toys - migration monomeres (EN 71-11)</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [mg/l], phenol (CAS 108-95-2) [mg/l], acrylamide (CAS 79-06-1) [mg/l], formaldehyde (CAS 50-00-0) [mg/l], styrene (CAS 100-42-5) [mg/l] (all quantitative)	Aug-25	
2010255	<b>Toys - dyes (EN 71-11)</b>	<input type="checkbox"/> Detection of dyes in toy material extract [ - ] (all qualitative)	Jul-25	
2010253	<b>Finger paint - NDELA (EN 71-12)</b>	<input type="checkbox"/> NDELA (CAS 1116-54-7) [µg/kg] (all quantitative)	Apr-25	
2010301	<b>Formaldehyde release (EN 717-3) (use of a model matrix)</b>	<input type="checkbox"/> formaldehyde release (bottle value Fv) (CAS 50-00-0) [mg/kg] (all quantitative)	Oct-25	
2010564	<b>Toys - colourfastness (DIN 53160)</b>	<input type="checkbox"/> colour fastness (artificial saliva) [-], colour fastness (artificial sweat) [-] (all quantitative)	Jun-25	
2011009	<b>Toys - lead, cadmium (CPSC-CH-E1004-11, CPSC-CH-E1002-08.3)</b>	<input type="checkbox"/> lead (Pb) [mg/kg], cadmium (Cd) [µg Cd] (all quantitative)	Jul-25	
<b>Jewellery</b>				
2010568	<b>Jewellery (acc. to EN 1811)</b>	<input type="checkbox"/> surface area [cm <sup>2</sup> ], nickel release [µg/cm <sup>2</sup> /week] (all quantitative)	Jul-25	
2010969	<b>Lead and cadmium in jewelry</b>	<input type="checkbox"/> lead (Pb) [mg/kg], cadmium (Cd) [mg/kg] (all quantitative)	Oct-25	

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# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type [A]	Parameters [*]	Period	To view pricing information:
<b>E-cigarettes</b>				<a href="#">Login or register</a>
2010264	<b>Liquids from e-cigarettes (ISO 20714)</b>	<input type="checkbox"/> glycerol (CAS 56-81-5) [mg/g], propylene glycol (CAS 57-55-6) [mg/g], nicotine (CAS 54-11-5) [mg/g] (all quantitative)	Sep-25	
<b>Cleaning agent</b>				
2010914	<b>Organic acids</b>	<input type="checkbox"/> citric acid (anhydrous) [g/100 ml], formic acid [g/100 ml], sulfamic acid [g/100 ml] (all quantitative)	Oct-25	
2010916	<b>Oxidizing agent</b>	<input type="checkbox"/> sodium hypochlorite [g/100g], hydrogen peroxide [g/100g], sodium percarbonate [g/100g] (all quantitative)	Oct-25	
2010920	<b>Acid, alkali cleaning agent</b>	<input type="checkbox"/> pH value [-], acid reserve [g NaOH/100g], alkali reserve [g NaOH/100g] (all quantitative)	Apr-25	
2010432	<b>Hygienic rinsing agent - disinfectant</b>	<input type="checkbox"/> DDAC-C10 (CAS 7173-51-5) [mg/l], BAC C12-C16 (CAS 68424-85-1) [mg/l] (all quantitative)	Jul-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

[\*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our [online portal \(ODIN\)](#).

# Proficiency testing - organoleptic



Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters <sup>[*]</sup>	Period	To view pricing information:
<b>films</b>				<a href="#">Login or register</a>
3010011	<b>Sensory testing of food contact materials and articles (FCM) (DIN 10955)</b>	<input type="checkbox"/> sensory analysis - sample preparation, intensity estimation, descriptive testing (minimum number of participants: 6 assessors)	Sep-25	
<b>paper and board</b>				
3010024	<b>Sensory of board and paper acc. to EN 1230</b>	<input type="checkbox"/> sensory analysis - sample preparation, intensity estimation, descriptive testing	Sep-25	
3010022	<b>Threshold value examination off flavour</b>	<input type="checkbox"/> threshold value	Aug-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Canning, glass</b>					<a href="#">Login or register</a>
2010172	Mesophilic sterility testing tinned food	<input type="checkbox"/> mesophilic germ load (all qualitative)	risk group 1	Sep-25	
2010928	Thermophilic sterility testing tinned food	<input type="checkbox"/> thermophilic germ load (55°C) (all qualitative)	risk group 1	Sep-25	
2010950	Anaerobic mesophilic sterility testing tinned food	<input type="checkbox"/> anaerobic mesophilic germ load (all qualitative)	risk group 2	Sep-25	
<b>Plastic surface - NEW!</b>					
2011299	Enterobacteriaceae plastic surface	<input type="checkbox"/> Enterobacteriaceae [cfu/100qcm] (all quantitative)	risk group 1	Sep-25	
2011300	Listeria spp. plastic surface	<input type="checkbox"/> Listeria spp. [cfu/100qcm] (all quantitative)	risk group 2	Sep-25	
<b>Plastic surface</b>					
2010119	Moulds plastic surface	<input type="checkbox"/> moulds [cfu/100qcm] (all quantitative)	risk group 1	Sep-25	
2010191	Aerobic total count plastic surface	<input type="checkbox"/> aerobic total count [cfu/100qcm] (all quantitative)	risk group 1	Sep-25	
<b>Paper and board - NEW!</b>					
2011304	Aerobic bacteria on paper, board (ISO 8784-2)	<input type="checkbox"/> aerobic total count (all quantitative)	risk group 1	Nov-25	
2011305	Moulds on paper, board (ISO 8784-2)	<input type="checkbox"/> moulds (all quantitative)	risk group 1	Nov-25	
<b>Paper and board</b>					
2010279	Paper - transition of antimicrobial components (EN 1104)	<input type="checkbox"/> antibacterial effect Bacillus subtilis [mm], antimycotic effect Aspergillus niger [mm] (all qualitative)		Nov-25	
<b>Cosmetic</b>					
2010085	Challenge test	<input type="checkbox"/> Ps.aeruginosa [CFU/g], S.aureus [CFU/g], E.coli [CFU/g], C.albicans [CFU/g], A.brasiliensis [CFU/g] (all quantitative)	risk group 2	Apr-25	
2010071	Aerobic Bacteria O W-emulsion	<input type="checkbox"/> aerobic total count [cfu/g] (all quantitative)	risk group 1	Oct-25	
2010079	Moulds O W-emulsion	<input type="checkbox"/> moulds [cfu/g] (all quantitative)	risk group 1	Oct-25	
2010077	Identification of germs O W-emulsion	<input type="checkbox"/> identification of germs (all qualitative)	risk group 2	Oct-25	
2010356	S.aureus O W-emulsion	<input type="checkbox"/> S.aureus (all qualitative)	risk group 2	Oct-25	
2010358	E.coli O W-emulsion	<input type="checkbox"/> E.coli (all qualitative)	risk group 2	Oct-25	
2010360	C.albicans O W-emulsion	<input type="checkbox"/> C.albicans (all qualitative)	risk group 2	Oct-25	
2010362	Ps.aeruginosa O W-emulsion	<input type="checkbox"/> Ps.aeruginosa (all qualitative)	risk group 2	Oct-25	
<b>Textiles</b>					
2010076	Antimicrobial Fabric Test textiles - AATCC 100	<input type="checkbox"/> antibacterial activity S.aureus [% reduction], antibacterial activity K.pneumoniae [% reduction] (all quantitative)		May-25	
2010078	Antibacterial Parallel Streak textiles - AATCC 147	<input type="checkbox"/> antibacterial activity S.aureus, antibacterial activity K.pneumoniae (all qualitative)		May-25	
2010080	Antibacterial Activity textiles - ISO 20743	<input type="checkbox"/> antibacterial activity S.aureus [log10 reduction], antibacterial activity K.pneumoniae [log10 reduction] (all quantitative)		May-25	
2011104	Antibacterial Activity textiles - AATCC 90	<input type="checkbox"/> antibacterial activity S.aureus [mm], antibacterial activity K.pneumoniae [mm] (all qualitative)		May-25	
2010147	Cotton (GMO)	<input type="checkbox"/> detection of screening elements P-35S, T-NOS and pat (qual.), relative amount T304-40 [%] (quant.), relative amount DAS-81910-7 [%] (quant.)		Dec-25	
<b>tattoo ink</b>					
2010354	Aerobic bacteria in tattoo ink	<input type="checkbox"/> aerobic total count [cfu/g] (all quantitative)	risk group 1	Oct-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information: <a href="#">Login or register</a>
<b>disinfectant - NEW!</b>					
2011307	<b>Disinfectant bactericidal activity (EN 14561)</b>	<input type="checkbox"/> bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
2011308	<b>Disinfectant levurocidal activity (EN 14562)</b>	<input type="checkbox"/> Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
2011309	<b>Wipes (4-field test) bactericidal activity (EN 16615)</b>	<input type="checkbox"/> bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml] (all quantitative)		Jun-24	
2011310	<b>Wipes (4-field test) levurocidal activity (EN 16615)</b>	<input type="checkbox"/> Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml] (all quantitative)		Jun-24	
2011311	<b>Disinfectant bactericidal activity (EN 17387, EN 13697)</b>	<input type="checkbox"/> bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
2011312	<b>Disinfectant levurocidal activity (EN 17387, EN 13697)</b>	<input type="checkbox"/> Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
<b>disinfectant</b>					
2010686	<b>Disinfectant bactericidal activity (EN 13727, EN 1276)</b>	<input type="checkbox"/> bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
2010688	<b>Disinfectant levurocidal activity (EN 13624, EN 1650)</b>	<input type="checkbox"/> Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
2010690	<b>Disinfectant mycobactericidal activity (EN 14348)</b>	<input type="checkbox"/> mycobactericidal effect M.terrae conc. 1 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 2 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 3 [log10 cfu/ml] (all quantitative)		Jun-24	
2010692	<b>Disinfectant sporocidal activity (EN 17126)</b>	<input type="checkbox"/> sporocidal activity B.subtilis [log10 pfu/ml], sporocidal activity B.cereus [log10 pfu/ml] (all quantitative)		Jun-24	
2010694	<b>Disinfectant virucidal activity (EN 14476)</b>	<input type="checkbox"/> virucidal activity (Vacciniavirus) [log10 pfu/ml] (all quantitative)		Jun-24	
<b>toys - NEW!</b>					
2011302	<b>Salmonella spp. toys containing aqueous media</b>	<input type="checkbox"/> Salmonella spp. (all qualitative)	<b>risk group 2</b>	Jul-24	
2011303	<b>Enterobacteriaceae toys containing aqueous media</b>	<input type="checkbox"/> Enterobacteriaceae [cfu/g] (all quantitative)	<b>risk group 1</b>	Jul-24	

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# registration form proficiency testing



Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
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_____	_____
_____	_____

**For questions and suggestions do not hesitate to contact the DRRR-team!**

+49(0)831/960 878-0

[info@DRRR.de](mailto:info@DRRR.de)

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**For proficiency testing schemes labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG) in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancellation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

This registration is permanent-registration and valid until my cancellation  
 An offer with the total costs is needed  
 A Purchase order from the purchasing department will follow

Order by e-mail: [info@DRRR.de](mailto:info@DRRR.de)

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

_____	<b>DRRR-customer number</b>
_____	<b>company</b>
_____	<b>additional line</b>
_____	<b>contact person</b>
_____	<b>street</b>
_____	<b>post code / city</b>
_____	<b>country</b>
_____	<b>email</b>
_____	<b>VAT-ID (EU)</b>

Date:

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 Reinhartser Straße 31 | 87437 Kempten  
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# reference material

## Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

## Description reference material

## Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivative reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

## Profit with our high quality standards for your lab work

## Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

**Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.**

## Identification

The reference materials listed on the following pages have specific article numbers to identify the materials. To supply our customers with consistently high quality the DRRR-reference materials will be replaced regularly by corresponding materials during the year.

Currently available reference materials and its corresponding reference values will be sent on request. We reserve our right to send you always the latest materials.

## Availability and order request of reference material

## Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Plastics, plastic film</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1151001	<b>Plastic - overall migration (one-sided contact) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (dist. water) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ]	
1151002	<b>Plastic - overall migration (total immersion) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/dm <sup>2</sup> ], overall migration (ethanol 20%) [mg/dm <sup>2</sup> ], overall migration (ethanol 50%) [mg/dm <sup>2</sup> ], overall migration (acetic acid 3%) [mg/dm <sup>2</sup> ], overall migration (dist. water) [mg/dm <sup>2</sup> ], overall migration (vegetable oil) [mg/dm <sup>2</sup> ]	
1151044	<b>Plastic - overall migration (article filling) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 10%) [mg/kg], overall migration (ethanol 20%) [mg/kg], overall migration (ethanol 50%) [mg/kg], overall migration (acetic acid 3%) [mg/kg]	
1151045	<b>Plastic - overall migration (fatty test food, total immersion) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ]	
1151056	<b>Plastic, silicone - overall migration using MPPO</b>	<input type="checkbox"/> overall migration: 1. migration (MPPO) [mg/dm <sup>2</sup> ], overall migration: 2. migration (MPPO) [mg/dm <sup>2</sup> ], overall migration: 3. migration (MPPO) [mg/dm <sup>2</sup> ]	
1151167	<b>Plastic - overall migration (fatty test food, one-sided contact) (EN 1186-3)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ]	
1151003	<b>Plastic - specific migration caprolactam</b>	<input type="checkbox"/> caprolactam (ethanol 10%) [mg/dm <sup>2</sup> ], caprolactam (ethanol 20%) [mg/dm <sup>2</sup> ], caprolactam (ethanol 50%) [mg/dm <sup>2</sup> ], caprolactam (acetic acid 3%) [mg/dm <sup>2</sup> ], caprolactam (dist. water) [mg/dm <sup>2</sup> ], caprolactam (vegetable oil) [mg/dm <sup>2</sup> ]	
1151004	<b>Plastic - specific migration terephthalic acid</b>	<input type="checkbox"/> terephthalic acid (ethanol 10%) [mg/kg], terephthalic acid (ethanol 50%) [mg/kg], terephthalic acid (acetic acid 3%) [mg/kg], terephthalic acid (dist. water) [mg/kg], terephthalic acid (vegetable oil) [mg/kg]	
1151005	<b>Plastic - specific migration acrylonitrile (EN 13130-3)</b>	<input type="checkbox"/> acrylonitrile (ethanol 10%) [mg/kg], acrylonitrile (acetic acid 3%) [mg/kg], acrylonitrile (dist. water) [mg/kg], acrylonitrile (vegetable oil) [mg/kg]	
1151158	<b>Plastic - specific migration metals part 1</b>	<input type="checkbox"/> antimony (Sb) (dist. water) [mg/kg], antimony (Sb) (acetic acid 3%) [mg/kg], arsenic (As) (dist. water) [mg/kg], arsenic (As) (acetic acid 3%) [mg/kg], cadmium (Cd) (dist. water) [mg/kg], cadmium (Cd) (acetic acid 3%) [mg/kg], aluminium (Al) (dist. water) [mg/kg], aluminium (Al) (acetic acid 3%) [mg/kg], nickel (Ni) (dist. water) [mg/kg], nickel (Ni) (acetic acid 3%) [mg/kg]	
1151159	<b>Plastic - specific migration metals part 2</b>	<input type="checkbox"/> chromium (Cr) (dist. water) [mg/kg], chromium (Cr) (acetic acid 3%) [mg/kg], lead (Pb) (dist. water) [mg/kg], lead (Pb) (acetic acid 3%) [mg/kg], iron (Fe) (dist. water) [mg/kg], iron (Fe) (acetic acid 3%) [mg/kg], barium (Ba) (dist. water) [mg/kg], barium (Ba) (acetic acid 3%) [mg/kg], zinc (Zn) (dist. water) [mg/kg], zinc (Zn) (acetic acid 3%) [mg/kg]	
1151050	<b>Plastic - phthalate content</b>	<input type="checkbox"/> DBP (CAS 84-74-2) [g/100g], BBP (CAS 85-68-7) [g/100g], DEHP (CAS 117-81-7) [g/100g], DNOP (CAS 117-84-0) [g/100g], DINP (CAS 28553-12-0) [g/100g], DIDP (CAS 26761-40-0) [g/100g], DEP (CAS 84-66-2) [g/100g], DMP (CAS 131-11-3) [g/100g]	
1151062	<b>Plastic - bisphenol content</b>	<input type="checkbox"/> bisphenol A (CAS 80-05-7) [µg/kg], bisphenol B (CAS 77-40-7) [µg/kg], bisphenol F (CAS 620-92-8) [µg/kg], bisphenol S (CAS 80-09-1) [µg/kg]	
1151132	<b>Plastic - PAH content</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg]	
1151173	<b>Plastic, silicone - volatile fractions</b>	<input type="checkbox"/> Mass fraction of volatile substances [% (m/m)]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

# Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Paper and board</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1151015	<b>Mineral oil in cardboard</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOSH C10-C35 [mg/kg], MOAH C10-C35 [mg/kg]	
1151052	<b>Migration of mineral oil from cardboard</b>	<input type="checkbox"/> MOSH C10-C16 [mg/dm <sup>2</sup> ], MOSH C16-C20 [mg/dm <sup>2</sup> ], MOSH C20-C25 [mg/dm <sup>2</sup> ], MOSH C25-C35 [mg/dm <sup>2</sup> ], MOAH C10-C16 [mg/dm <sup>2</sup> ], MOAH C16-C25 [mg/dm <sup>2</sup> ], MOAH C25-C35 [mg/dm <sup>2</sup> ], MOSH C10-C35 [mg/dm <sup>2</sup> ], MOAH C10-C35 [mg/dm <sup>2</sup> ]	
1151161	<b>Mineral oil in jute bags</b>	<input type="checkbox"/> MOSH C10-C16 [mg/kg], MOSH C16-C20 [mg/kg], MOSH C20-C25 [mg/kg], MOSH C25-C35 [mg/kg], MOSH C35-C40 [mg/kg], MOSH C40-C50 [mg/kg], MOAH C10-C16 [mg/kg], MOAH C16-C25 [mg/kg], MOAH C25-C35 [mg/kg], MOAH C35-C50 [mg/kg], MOSH C10-C50 [mg/kg], MOAH C10-C50 [mg/kg]	
1151055	<b>Migration from paper, board using MPPO (EN 14338)</b>	<input type="checkbox"/> overall migration (MPPO) [mg/dm <sup>2</sup> ]	
1151067	<b>Colour fastness of dyed paper (EN 646)</b>	<input type="checkbox"/> colour fastness (dist. Water) [-], colour fastness (acetic acid 3%) [-], colour fastness (olive oil) [-], colour fastness (alkali salt solution) [-]	
1151149	<b>Paper, cardboard - overall migration (fatty test food, solvent extract) (EN 15519)</b>	<input type="checkbox"/> overall migration (ethanol 95%) [mg/dm <sup>2</sup> ], overall migration (ISO octane) [mg/dm <sup>2</sup> ]	
1151187	<b>Paper, cardboard - PFAS</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg]	
<b>Kitchen utensils and dishes</b>			
1151134	<b>Ceramics - release of lead and cadmium (EN 1388-1)</b>	<input type="checkbox"/> lead (Pb) [mg/l], cadmium (Cd) [mg/l]	
1151201	<b>Metals and alloys - migration of metals part 1</b>	<input type="checkbox"/> aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag) [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg]	
1151202	<b>Metals and alloys - migration of metals part 2</b>	<input type="checkbox"/> envelope volume [cm <sup>3</sup> ], aluminum (Al) [mg/kg], antimony (Sb) [mg/kg], chromium (Cr) [mg/kg], cobalt (Co) [mg/kg], copper (Cu) [mg/kg], iron (Fe) [mg/kg], magnesium (Mg) [mg/kg], manganese (Mn) [mg/kg], molybdenum (Mo) [mg/kg], nickel (Ni) [mg/kg], silver (Ag) [mg/kg], tin (Sn) [mg/kg], titanium (Ti) [mg/kg], vanadium (V) [mg/kg], zinc (Zn) [mg/kg]	
<b>Rubber</b>			
1151144	<b>Rubber - PAH content</b>	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], anthracene (CAS 120-12-7) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], fluoranthene (CAS 206-44-0) [mg/kg]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

## Reference material - chemical-physical

Art. no.	material description	Parameters [*]	additional information / packaging unit / price:
<b>Cosmetics</b>			on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
1151023	Care products	<input type="checkbox"/> Methyl 4-hydroxybenzoate calculated as acid [g/100g], Ethyl 4-hydroxybenzoate calculated as acid [g/100g], Propyl 4-hydroxybenzoate calculated as acid [g/100g], n-Butyl 4-hydroxybenzoate calculated as acid [g/100g], 2-phenoxyethanol [g/100g], benzoic acid [g/100g], sorbic acid [g/100g], methylisothiazolinone [mg/kg], Isobutyl 4-hydroxybenzoate calculated as acid [g/100g]	
1151024	Shampoo, lotion	<input type="checkbox"/> density [g/ml], pH value [-], dry matter [g/100g], water content [g/100g], urea [g/100g], aw value [-]	
1151026	Dental care - total fluoride	<input type="checkbox"/> total fluoride [g/100g]	
1151071	Cosmetics - heavy metals (ISO 21392)	<input type="checkbox"/> lead (Pb) [mg/kg], arsenic (As) [mg/kg], antimony (Sb) [mg/kg], nickel (Ni) [mg/kg], cobalt (Co) [mg/kg], cadmium (Cd) [mg/kg], chromium (Cr) [mg/kg]	
1151028	Cosmetics - UV filters	<input type="checkbox"/> EHS (CAS 118-60-5) [g/100g], BMDM (CAS 70356-09-1) [g/100g], EHT (CAS 88122-99-0) [g/100g], PBSA (CAS 27503-81-7) [g/100g], OC calculated as acid (CAS 6197-30-4) [g/100g], titanium dioxide (CAS 13463-67-7) [g/100g], HMS (CAS 118-56-9) [g/100g], BEMT (CAS 187393-00-6) [g/100g], DHHB (CAS 302776-68-7) [g/100g], DEBT (CAS 154702-15-5) [g/100g], PDTA (CAS 180898-37-7) [g/100g], TDSA (CAS 90457-82-2) [g/100g], BZ4 (CAS 4065-45-6) [g/100g], BZ3 (CAS 131-57-7) [g/100g], IMC (CAS 71617-10-2) [g/100g], MBC (CAS 36861-47-9) [g/100g], EHDP (CAS 21245-02-3) [g/100g], EHMC (CAS 5466-77-3) [g/100g], MBBT (CAS 103597-45-1) [g/100g], P15 (CAS 207574-74-1) [g/100g]	
<b>Leather</b>			
1151094	Leather – total metal content (ISO 17072-2)	<input type="checkbox"/> chromium (Cr) [mg/kg], nickel (Ni) [mg/kg], cadmium (Cd) [mg/kg], lead (Pb) [mg/kg], zirconium (Zr) [mg/kg], iron (Fe) [mg/kg], aluminium (Al) [mg/kg], titanium (Ti) [mg/kg]	
1151194	Leather - PFAS (ISO 23702-1)	<input type="checkbox"/> total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg], total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg], total perfluorohexanoic acid (CAS 307-24-4) [µg/kg], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg], total perfluorononanoic acid (CAS 375-95-1) [µg/kg], total perfluorodecanoic acid (CAS 335-76-2) [µg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [µg/kg], total perfluorododecanoic acid (CAS 307-55-1) [µg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [µg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [µg/kg], 6:2 FTOH (CAS 647-42-7) [µg/kg], 8:2 FTOH (CAS 678-39-7) [µg/kg], 10:2 FTOH (CAS 865-86-1) [µg/kg], 12:2 FTOH (CAS 39239-77-5) [µg/kg], 6:2 FTA (CAS 17527-29-6) [µg/kg], 8:2 FTA (CAS 27905-45-9) [µg/kg], 10:2 FTA (CAS 17741-60-5) [µg/kg], 6:2 FTMA (CAS 2144-53-8) [µg/kg], 8:2 FTMA (CAS 1996-88-9) [µg/kg], total fluor (TF) [mg/kg]	
1151200	Footwear materials - phthalates	<input type="checkbox"/> DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg]	
<b>Textiles</b>			
1151020	Textiles – phosphorus flame retardants (ISO 17881-2)	<input type="checkbox"/> tributyl phosphate (CAS 126-73-8) [mg/kg], o-triskresyl phosphate (CAS 78-30-8) [mg/kg], tris(2-chloroethyl)-phosphate (CAS 115-96-8) [mg/kg], tris(2,3-dibrompropyl)-phosphate (CAS 126-72-7) [mg/kg], tris(2-chloro-1-methylethyl)-phosphate (CAS 13674-84-5) [mg/kg]	
1151087	Textiles - PFAS	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [mg/kg], total perfluorooctanoic acid (CAS 335-67-1) [mg/kg], total perfluorononanoic acid (CAS 375-95-1) [mg/kg], total perfluorohexane sulfonic acid (CAS 355-46-4) [mg/kg], total perfluorohexanoic acid (CAS 307-24-4) [mg/kg], total perfluorodecanoic acid (CAS 335-76-2) [mg/kg], total perfluoroundecanoic acid (CAS 2058-94-8) [mg/kg], total perfluorododecanoic acid (CAS 307-55-1) [mg/kg], total perfluorotridecanoic acid (CAS 72629-94-8) [mg/kg], total perfluorotetradecanoic acid (CAS 376-06-7) [mg/kg], 6:2 FTOH (CAS 647-42-7) [mg/kg], 8:2 FTOH (CAS 678-39-7) [mg/kg], 10:2 FTOH (CAS 865-86-1) [mg/kg], 12:2 FTOH (CAS 39239-77-5) [mg/kg], 6:2 FTA (CAS 17527-29-6) [mg/kg], 8:2 FTA (CAS 27905-45-9) [mg/kg], 10:2 FTA (CAS 17741-60-5) [mg/kg], 6:2 FTMA (CAS 2144-53-8) [mg/kg], 8:2 FTMA (CAS 1996-88-9) [mg/kg], total fluor (TF) [mg/kg]	
1151090	Textiles - phthalate content (ISO 14389)	<input type="checkbox"/> DINP (CAS 28553-12-0) [mg/kg], DEHP (CAS 117-81-7) [mg/kg], DNOP (CAS 117-84-0) [mg/kg], DIDP (CAS 26761-40-0) [mg/kg], BBP (CAS 85-68-7) [mg/kg], DBP (CAS 84-74-2) [mg/kg], DIBP (CAS 84-69-5) [mg/kg], DPP (CAS 131-18-0) [mg/kg], DIHP (CAS 71888-89-6) [mg/kg], DMEP (CAS 117-82-8) [mg/kg]	
1151091	Textiles - PAH (EN 17132)	<input type="checkbox"/> benzo[a]pyrene (CAS 50-32-8) [mg/kg], benzo[a]anthracene (CAS 56-55-3) [mg/kg], chrysene (CAS 218-01-9) [mg/kg], naphthalene (CAS 91-20-3) [mg/kg], benzo[e]pyrene (CAS 192-97-2) [mg/kg], benzo[b]fluoranthene (CAS 205-99-2) [mg/kg], benzo[j]fluoranthene (CAS 205-82-3) [mg/kg], benzo[k]fluoranthene (CAS 207-08-9) [mg/kg], dibenzo[a,h]anthracene (CAS 53-70-3) [mg/kg]	
<b>Toys</b>			
1151040	Scrapped-off materials - elements (EN 71-3)	<input type="checkbox"/> tin (Sn) [mg/kg], zinc (Zn) [mg/kg], nickel (Ni) [mg/kg], strontium (Sr) [mg/kg], antimony (Sb) [mg/kg], barium (Ba) [mg/kg], cadmium (Cd) [mg/kg], cobalt (Co) [mg/kg], lead (Pb) [mg/kg], chromium III (Cr III) [mg/kg], chromium VI (Cr VI) [mg/kg], chromium (Cr) [mg/kg], aluminium (Al) [mg/kg], arsenic (As) [mg/kg], copper (Cu) [mg/kg], manganese (Mn) [mg/kg], mercury (Hg) [mg/kg], selenium (Se) [mg/kg]	
<b>Jewellery</b>			
1151043	Jewellery (acc. to EN 1811)	<input type="checkbox"/> surface area [cm <sup>2</sup> ], nickel release [µg/cm <sup>2</sup> /week]	

[\*] = In individual cases it can happen that there is no reference value available for a listed parameter

Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Canning, glass</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2251004	Mesophilic sterility testing tinned food	<input type="checkbox"/> mesophilic germ load (pos./neg.)	risk group 1	
2251019	Thermophilic sterility testing tinned food	<input type="checkbox"/> thermophilic germ load (55°C) (pos./neg.)	risk group 1	
2251020	Anaerobic mesophilic sterility testing tinned food	<input type="checkbox"/> anaerobic mesophilic germ load (pos./neg.)	risk group 2	
<b>Plastic surface</b>				
2251001	Moulds plastic surface	<input type="checkbox"/> moulds [cfu/100qcm]	risk group 1	
2251002	Aerobic total count plastic surface	<input type="checkbox"/> aerobic total count [cfu/100qcm]	risk group 1	
2251037	Enterobacteriaceae plastic surface	<input type="checkbox"/> Enterobacteriaceae [cfu/100qcm]	risk group 1	
2251038	Listeria spp. plastic surface	<input type="checkbox"/> Listeria spp. [cfu/100qcm]	risk group 2	
<b>Paper and board</b>				
2251029	Paper - transition of antimicrobial components (EN 1104)	<input type="checkbox"/> antibacterial effect Bacillus subtilis [mm], antimycotic effect Aspergillus niger [mm] (pos./neg.)		
2251039	Aerobic bacteria on paper, board (ISO 8784-2)	<input type="checkbox"/> aerobic total count	risk group 1	
2251040	Moulds on paper, board (ISO 8784-2)	<input type="checkbox"/> moulds	risk group 1	
<b>Cosmetic</b>				
2251005	Aerobic Bacteria O W-emulsion	<input type="checkbox"/> aerobic total count [cfu/g]	risk group 1	
2251006	Moulds O W-emulsion	<input type="checkbox"/> moulds [cfu/g]	risk group 1	
2251007	E.coli O W-emulsion	<input type="checkbox"/> E.coli (pos./neg.)	risk group 2	
2251008	S.aureus O W-emulsion	<input type="checkbox"/> S.aureus (pos./neg.)	risk group 2	
2251009	Identification of germs O W-emulsion	<input type="checkbox"/> identification of germs	risk group 2	
2251010	C.albicans O W-emulsion	<input type="checkbox"/> C.albicans (pos./neg.)	risk group 2	
2251011	Ps.aeruginosa O W-emulsion	<input type="checkbox"/> Ps.aeruginosa (pos./neg.)	risk group 2	
2251028	Challenge test	<input type="checkbox"/> Ps.aeruginosa [CFU/g], S.aureus [CFU/g], E.coli [CFU/g], C.albicans [CFU/g], A.brasiliensis [CFU/g]	risk group 2	
<b>Textiles</b>				
2251024	Antimicrobial Fabric Test textiles - AATCC 100	<input type="checkbox"/> antibacterial activity S.aureus [% reduction], antibacterial activity K.pneumoniae [% reduction]		
2251025	Antibacterial Parallel Streak textiles - AATCC 147	<input type="checkbox"/> antibacterial activity S.aureus, antibacterial activity K.pneumoniae (pos./neg.)		
2251026	Antibacterial Activity textiles - ISO 20743	<input type="checkbox"/> antibacterial activity S.aureus [log10 reduction], antibacterial activity K.pneumoniae [log10 reduction]		
<b>Tattoo ink</b>				
2251012	Aerobic bacteria in tattoo ink	<input type="checkbox"/> aerobic total count [cfu/g]	risk group 1	

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

# Reference material - immunological, molecular biological & microbiological



Art. no.	material description	Parameters [*]	risk group	additional information / packaging unit / price:
<b>Disinfectant</b>				on request: <a href="mailto:info@drrr.de">info@drrr.de</a>
2251013	<b>Disinfectant bactericidal activity (EN 13727, EN 1276)</b>	<input type="checkbox"/> bactericidal effect S.aureus conc. 1 [log10 cfu/ml], bactericidal effect S.aureus conc. 2 [log10 cfu/ml], bactericidal effect S.aureus conc. 3 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 1 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 2 [log10 cfu/ml], bactericidal effect Ps.aeruginosa conc. 3 [log10 cfu/ml]		
2251014	<b>Disinfectant levurocidal activity (EN 13624, EN 1650)</b>	<input type="checkbox"/> Levurocidal effect C.albicans conc. 1 [log10 cfu/ml], Levurocidal effect C.albicans conc. 2 [log10 cfu/ml], Levurocidal effect C.albicans conc. 3 [log10 cfu/ml]		
2251015	<b>Disinfectant mycobactericidal activity (EN 14348)</b>	<input type="checkbox"/> mycobactericidal effect M.terrae conc. 1 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 2 [log10 cfu/ml], mycobactericidal effect M.terrae conc. 3 [log10 cfu/ml]		
2251016	<b>Disinfectant sporocidal activity (EN 17126)</b>	<input type="checkbox"/> sporocidal activity B.subtilis [log10 pfu/ml], sporocidal activity B.cereus [log10 pfu/ml]		
2251017	<b>Disinfectant virucidal activity (EN 14476)</b>	<input type="checkbox"/> virucidal activity (Vacciniavirus) [log10 pfu/ml]		

[\*] = Sometimes we used more than one method per parameter. The values of the germ contents varies for each material from 10<sup>2</sup> to 10<sup>5</sup> KbE/g or KbE/ml and can be asked before order.

# order form reference material



Quantity

material type / material description / article no.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**For questions and suggestions do not hesitate to contact the DRRR-team!**

+49(0)831/960 878-0

[info@DRRR.de](mailto:info@DRRR.de)

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(changes reserved)

**For reference materials labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

Please notice that we process orders only at a minimum order value of 50 €.

- An offer with the total costs is needed
- A Purchase order from the purchasing department will follow

Order by e-mail:

[info@DRRR.de](mailto:info@DRRR.de)

Hereby we confirm obligatorily the order for the reference materials

_____
_____
_____
_____
_____
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_____
_____
_____
_____

**DRRR-customer number**

**company**

**additional line**

**contact person**

**street**

**post code / city**

**country**

**email**

**VAT-ID (EU)**

Date:

**Deutsches Referenzbüro**  
für Ringversuche und Referenzmaterialien GmbH  
Reinhartser Straße 31 | 87437 Kempten  
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99  
[www.DRRR.de](http://www.DRRR.de) | [info@DRRR.de](mailto:info@DRRR.de)

# ODIN - proficiency testing online

## Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

- Fast and easy online registration / online announcement in our online catalogue
- Direct management and booking of the proficiency testing
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates
- Supervisor rights available to overview all PTs of a multi-site company
- Saving of costs through booking and submission of your results via ODIN

## Secure payment with IRIS (Internet Remuneration Information Service).

- Easy and safe payment by credit card
- Overview about all invoices
- Fast and secure online access

*You can also pay your invoice via banktransfer or bank check.*



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➤ Proficiency testing catalog



Enter Results Online

➤ Booked proficiency testings



Download Reports and  
Certificates

➤ Booked proficiency testings

# Proficiency testing organisation

- A precise planning and organisation of each proficiency testing round
- 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

• According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

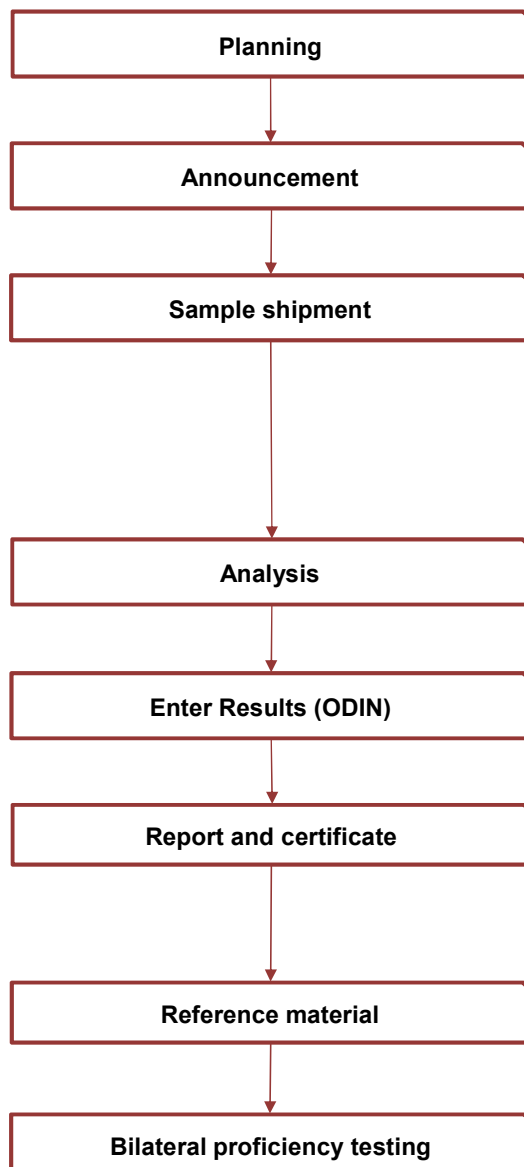
- After receiving the samples you will have a period of 4 weeks for analysing

• Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

• At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

• After the proficiency testing we can offer you reference materials

• Possibility to perform a bilateral proficiency testing (bPT)



# Benefits of proficiency testing

## Why take part in proficiency testing?

- Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers
- Participants can compare, assure and improve their own performance and quality against other laboratories worldwide
- Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories
- Saving on the costs of testing
- Unquestionable lab performance towards customers, authorities and certification authorities
- Saving on the costs of lab development and maintenance
- Saving on the costs of lab development and maintenance
- Saving on production costs by avoiding waste of raw material

## Your benefits in DRRR proficiency testing schemes

- Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories
- Saving the costs, because you have the opportunity to analyze more samples and more parameters in one proficiency testing
- External demonstration of your performance with the results of the proficiency testing
- Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence
- Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us

GOOD  
BETTER  
BEST

Image source:  
iStock.com/3dts

## We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogenous and stable sample material

## Laboratory performance:

by calculation of the following parameters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

## Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics (Hampel estimator, Q-method)
- Robust statistics (Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the  $\chi^2$ -fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



## z'-score > 2: What to do?

### You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.

These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

### Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually\*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.

(\* normally not longer than 1 - 2 weeks)

The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

### The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.

You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

### Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager). Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

**On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.**

**Please do not hesitate to contact us.**

### IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarities for the IR calibration of selected food will be discussed. The specific peculiarities of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical exercise calibration data sets will be tested for suitability and critical data sets will be identified.

### Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

### User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

### Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classic misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

### Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test,  $q_{i^2}$ -adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.

## Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

**You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.**

## Inhouse-Training

We consider lectures, training and seminars as an important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

**For special requirements we also offer customised training programmes.**

**For questions about contents and conditions do not hesitate to contact us.**

# Sales terms and delivery conditions

## Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.

Terms of payment: 8 days net, without deduction

Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:

Raiffeisenbank in Allgäuer Land / bank code 733 692 64

Account 102350 / IBAN DE 94733692640000102350

BIC code: GENO DEF1DTA

Sales tax ID no. DE254613132

tax number 127/124/32207

## Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked "frozen" are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

## Terms of delivery (risk group 1, 2 and 3)

Proficiency tests or reference materials marked with "Risk Group 1" are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with "risk group 2, or risk group 3\*\*\*", we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

© DRRR rev.: 30.10.2024 (changes reserved)

**The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.**

## § 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.

Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.

If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations.

The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

## § 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.

The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.

The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.

A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

<b>Cancellation notification period:</b>	Permanent registration (D)
	single (one-time) registration €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

## § 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

## § 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments. Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).

The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.

No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order. Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.

The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.

The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.

The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.

If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.

The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.

The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.

All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.

In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.

All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.

The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.

For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

## § 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.

Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.

All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded.

Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

## § 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.

The goods remain the property of DRRR until they have been paid for in full by the customer.

The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.

Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.

The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction).

Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.

Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

## § 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.

The DRRR and its employees may not unauthorizably disclose or exploit business and operating relationships that come to their knowledge in the course of their work.

The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.

If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

## § 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.

The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.

The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

## § 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:

The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.

Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.

Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.

The warranty is limited to the stated expiration date of the reference materials.

This applies to: ieLab, TGZ AQS Baden-Württemberg

# Material testing

## Product catalogue 2025



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## Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

### Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 500 PT's  
per year

### Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Accredited PT-provider

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).



### Accreditation DIN EN ISO/IEC 17043:2010 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2010. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-EP-17063-01-00].

Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

### Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference  
material

### Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent  
contact persons

## Special characteristics

For most of the Proficiency testing schemes the participants get 2 different samples on different testing levels. So we can ensure that the laboratory has competence for a wide range of test results.

The testing levels are on industry standard and reflect the laboratory routine.

Different testing levels

## Cooperation partners

For each testing field of the material testing (plastics, textiles, building material, paper) we work together with accredited and established laboratories and experts from the industries they serve. So we can ensure to provide practical testing material. You can find a list of our partners on our homepage.

Competent partners

## Reports easy-to-understand

A clear presentation of our test results and your laboratory performance is important for us. Despite the huge volume of data and many statistical values we present the results easy-to-understand and transparent in our reports and certificates.

Reports easy-to-understand

## Precision data acc. to ISO 5725-2

By using our market-leading statistical evaluation we calculate precision data in accordance with ISO 5725-2 for each proficiency test of the material testing. These data are important for the laboratories and can be used in the every day work.

Market-leading statistical evaluation

## Technical assistance

You can contact our technical experts at any time e.g. the participant sees potential for improvement in the lab performance. It is also possible to order our reference materials for additional testing.

Technical assistance

In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

## Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

**Benefit from our high quality standards in all important fields of testing.**

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

**Get in touch with us.**

**We look forward to working with you!**

# Proficiency tests - Thermoplastics

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Plastics - mechanical properties (ISO):</b>				<a href="#">Login or register</a>
2010988	ISO 527-1,-2	<input type="checkbox"/> Tensile test	Apr-25	
2010765	ISO 527-1,-2	<input type="checkbox"/> Tensile Test at +80°C	Apr-25	
2010766	ISO 527-1,-2	<input type="checkbox"/> Tensile Test at -30°C	Apr-25	
2010881	ISO 899-1	<input type="checkbox"/> Tensile creep	Apr-25	
2010989	ISO 178	<input type="checkbox"/> Flexural test	Apr-25	
2010004	ISO 16770	<input type="checkbox"/> Full-notch creep test (FNCT)	Apr-25	
2010756	ISO 604	<input type="checkbox"/> Compression test (strength, elongation)	Apr-25	
2010773	ISO 179-1 (1eU)	<input type="checkbox"/> Charpy impact	Apr-25	
2010782	ISO 179-1 (1eA)	<input type="checkbox"/> Notched Charpy impact	Apr-25	
2010824	ISO 179-1	<input type="checkbox"/> Charpy impact at -30°C	Apr-25	
2010774	ISO 180	<input type="checkbox"/> Izod impact	Apr-25	
2010884	DIN 53435	<input type="checkbox"/> Impact test on dynstat test specimens	Apr-25	
2010885	DIN 53435	<input type="checkbox"/> Bending test on dynstat test specimens	Apr-25	
2010977	ISO 8256	<input type="checkbox"/> Tensile-impact strength	Apr-25	
2010882	ISO 6603-2	<input type="checkbox"/> Instrumented impact test	Apr-25	
2010757	ISO 6721-5	<input type="checkbox"/> Dynamic-mechanical-Analysis (DMA)	Apr-25	
<b>Plastics - mechanical properties (ASTM):</b>				
2010886	ASTM D638	<input type="checkbox"/> Tensile test	Apr-25	
2010888	ASTM D790	<input type="checkbox"/> Flexural test	Apr-25	
2010006	ASTM D256	<input type="checkbox"/> Izod impact properties +23 °C	Apr-25	
2010883	ASTM D3763	<input type="checkbox"/> Instrumented impact test	Apr-25	
<b>Specimen injection moulding (type 1A):</b>				
2010785	ISO 527-1,-2	<input type="checkbox"/> Injection moulding of specimen (type 1A) and tensile test	Apr-25	
2010786	ISO 178	<input type="checkbox"/> Injection moulding of specimen (type 1A) and flexural test	Apr-25	
2010787	ISO 179-1	<input type="checkbox"/> Injection moulding of specimen (type 1A) and Charpy impact resistance	Apr-25	
<b>Cutting of specimen:</b>				
2010813	ISO 527-1,-2	<input type="checkbox"/> Cutting of specimen (type 1B) and tensile test	Apr-25	
2010814	ISO 527-1,-2	<input type="checkbox"/> Cutting of specimen (type 5A) and tensile test	Apr-25	
<b>Plastics - polyamide 6 and 6.6:</b>				
2010815	ISO 527-1,-2	<input type="checkbox"/> Tensile test polyamide 6 and 66	Apr-25	
2010816	ISO 178	<input type="checkbox"/> Flexural test polyamide 6 and 66	Apr-25	
2010817	ISO 179-1	<input type="checkbox"/> Charpy flexural impact test polyamide 6 and 66	Apr-25	
<b>Plastics - Dimensions of test specimens:</b>				
2010978	freely selectable	<input type="checkbox"/> Width and thickness of specimen (type 1A)	Apr-25	
<b>Plastics - water content   water absorption:</b>				
2010793	ISO 15512	<input type="checkbox"/> Water content (Karl-Fischer)	Apr-25	
2010865	ISO 15512	<input type="checkbox"/> Water content (Aquatrac®) CaH <sub>2</sub> -Method	Apr-25	
2010796	ISO 62	<input type="checkbox"/> Water absorption	Apr-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

# Proficiency tests - Thermoplastics

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Plastics - density   hardness   ash content:</b>				<a href="#">Login or register</a>
2010769	<b>ISO 1183-1 and ASTM D792 (Apr.)</b>	<input type="checkbox"/> Density	Apr-25	
2010984	<b>ISO 1183-1 and ASTM D792 (Oct.)</b>	<input type="checkbox"/> Density	Oct-25	
2010741	<b>ISO 1172 and ISO 3451-1</b>	<input type="checkbox"/> Ash content	Apr-25	
2010651	<b>ASTM D5630</b>	<input type="checkbox"/> Ash content	Apr-25	
2010742	<b>ISO 868</b>	<input type="checkbox"/> Shore-D-Hardness	Apr-25	
2010811	<b>ISO 2039-1</b>	<input type="checkbox"/> Ball indentation hardness	Apr-25	
<b>Plastics - rheological properties:</b>				
2010825	<b>ISO 1133-1 and ASTM D1238 (Mar.)</b>	<input type="checkbox"/> Melt flow and volume index (MFR-MVR)	Mar-25	
2010008	<b>ISO 1133-1 and ASTM D1238 (Oct.)</b>	<input type="checkbox"/> Melt flow and volume index (MFR-MVR)	Oct-25	
2010861	<b>ISO 1133</b>	<input type="checkbox"/> Melt flow - volume rate (high temperature above 300°C)	Mar-25	
2010213	<b>ISO 1133-2</b>	<input type="checkbox"/> MFR-MVR (moisture sensitive material)	Mar-25	
2010795	<b>ISO 307</b>	<input type="checkbox"/> Viscosity number (sulfuric acid)	Mar-25	
2010858	<b>ISO 307</b>	<input type="checkbox"/> Viscosity number (formic acid)	Mar-25	
2010859	<b>ISO 1628-5</b>	<input type="checkbox"/> Viscosity number of PBT	Mar-25	
2010788	<b>ISO 11443</b>	<input type="checkbox"/> Fluidity of plastics - capillary rheometer	Mar-25	
2010789	<b>ISO 6721-10</b>	<input type="checkbox"/> Complex shear viscosity (parallel-plate)	Mar-25	
<b>Plastics - thermal properties, Infrared spectroscopy:</b>				
2010743	<b>ISO 11357-3 and ASTM D3418 (Mar.)</b>	<input type="checkbox"/> DSC-analysis - Melting temperature and enthalpy	Mar-25	
2010985	<b>ISO 11357-3 and ASTM D3418 (Oct.)</b>	<input type="checkbox"/> DSC-analysis - Melting temperature and enthalpy	Oct-25	
2010854	<b>ISO 11357-2 and ASTM D3418</b>	<input type="checkbox"/> DSC-analysis - Glass transition temperature	Mar-25	
2010855	<b>ISO 11357-6 and ASTM D3895</b>	<input type="checkbox"/> DSC-analysis - Oxidation Induction time (OIT)	Mar-25	
2010297	<b>ISO 11357-4</b>	<input type="checkbox"/> DSC-Analysis - specific heat capacity	Mar-25	
2010745	<b>ISO 11358</b>	<input type="checkbox"/> Thermogravimetry (TGA) - filler content	Mar-25	
2010653	<b>ASTM E1131</b>	<input type="checkbox"/> Thermogravimetry (TGA) - filler content	Mar-25	
2010303	<b>ISO 6964</b>	<input type="checkbox"/> Carbon black content calcination and pyrolysis	Mar-25	
2010758	<b>ISO 11359</b>	<input type="checkbox"/> Coefficient of linear thermal expansion (CTLE)	Apr-25	
2010775	<b>ISO 306</b>	<input type="checkbox"/> Vicat softening point	Apr-25	
2010790	<b>ISO 75</b>	<input type="checkbox"/> Temperature of deflection under load	Apr-25	
2010818	<b>freely selectable</b>	<input type="checkbox"/> Quantitative Infrared spectroscopy	Mar-25	
<b>Recommendation from category "consumer goods":</b>				
2010210	<b>freely selectable</b>	<input type="checkbox"/> Identification of plastic granulates	Mar-25	
2010167	<b>freely selectable</b>	<input type="checkbox"/> Identification PA types (e.g. PA6, PA 11)	Mar-25	
<b>Plastics - emissions:</b>				
2010851	<b>VDA 270 - PV 3900</b>	<input type="checkbox"/> Odourtest	Mar-25	
2010555	<b>GMW 3205</b>	<input type="checkbox"/> Odour test	Mar-25	
2010869	<b>VDA 275 - PV 3925</b>	<input type="checkbox"/> Formaldehyde emission	Mar-25	
2010843	<b>VDA 277 - PV 3341</b>	<input type="checkbox"/> Total carbon emission	Mar-25	
2010870	<b>VDA 278</b>	<input type="checkbox"/> Thermal desorption analysis	Mar-25	
2010797	<b>DIN 75201</b>	<input type="checkbox"/> Fogging behaviour (method A)	Mar-25	
2010557	<b>GMW 3235</b>	<input type="checkbox"/> Fogging behaviour (method A)	Mar-25	
2010798	<b>DIN 75201 - PV 3015</b>	<input type="checkbox"/> Fogging behaviour (method B)	Mar-25	
2010559	<b>GMW 3235</b>	<input type="checkbox"/> Fogging behaviour (method B)	Mar-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Plastics - surfaces:</b>				<a href="#">Login or register</a>
2010722	<b>ISO 2813</b>	<input type="checkbox"/> Specular gloss	Mar-25	
2010649	<b>ASTM D523</b>	<input type="checkbox"/> Specular Gloss	Mar-25	
2010821	<b>DIN 53236-A</b>	<input type="checkbox"/> Colour Measurement 8°	Mar-25	
2010771	<b>DIN 53236-B</b>	<input type="checkbox"/> Colour Measurement 45°	Mar-25	
2011106	<b>VW 50195</b>	<input type="checkbox"/> Automotive Paint Finish - Colorimetric Evaluation	May-25	
2010822	<b>PV 3952</b>	<input type="checkbox"/> Scratch resistance	Mar-25	
2010823	<b>ISO 1518-1</b>	<input type="checkbox"/> Erichsen Hardness test pencil	Mar-25	
2011049	<b>ISO 22557</b>	<input type="checkbox"/> Scratch test spring-loaded pen	Mar-25	
2010871	<b>ISO 19403-2</b>	<input type="checkbox"/> Contact angle and surface energy	Mar-25	
2010893	<b>ISO 9352</b>	<input type="checkbox"/> Abrasion by abrasive wheels (Taber)	Mar-25	
2010981	<b>PV 3987</b>	<input type="checkbox"/> Micro scratch resistance	Jan-25	
2010699	<b>PV 3974</b>	<input type="checkbox"/> Mar Resistance of Surfaces	Apr-25	
2010719	<b>PV 3991</b>	<input type="checkbox"/> Skin abrasion test	Apr-25	
2010693	<b>PV 3966</b>	<input type="checkbox"/> Stress Whitening Properties (Ball Drop Test)	Apr-25	
2010717	<b>PV 3989</b>	<input type="checkbox"/> Ball Drop Test	Apr-25	
2011205	<b>ISO 8296, ASTM D2578</b>	<input type="checkbox"/> Wetting tension (red test ink)	May-25	
2011206	<b>ISO 8296, ASTM D2578</b>	<input type="checkbox"/> Wetting tension (green test ink)	May-25	
<b>Plastics - paintwork:</b>				
2010972	<b>ISO 2409</b>	<input type="checkbox"/> Cross-cutting test	May-25	
2010539	<b>PV 3964</b>	<input type="checkbox"/> Cream resistance	May-25	
2010849	<b>DBL 5425</b>	<input type="checkbox"/> Multiple stone impact test	May-25	
2010221	<b>ISO 20567-1</b>	<input type="checkbox"/> Multiple stone impact test	May-25	
2011042	<b>SAE J400</b>	<input type="checkbox"/> Chip Resistance	May-25	
2010845	<b>DBL 5425</b>	<input type="checkbox"/> Steam jet test	May-25	
2010703	<b>TL 211 (ISO 16925-C)</b>	<input type="checkbox"/> Steam-jet test	May-25	
2011045	<b>IEC 60068-2-70</b>	<input type="checkbox"/> Abrasion caused by rubbing	May-25	
2010217	<b>PV 1200</b>	<input type="checkbox"/> Environmental Cycle Test	May-25	
2010541	<b>ISO 2808 (6A, Var. 1)</b>	<input type="checkbox"/> Film thickness - Cross sectioning by grinding	May-25	
2010641	<b>ISO 2808 (6A, Var. 2)</b>	<input type="checkbox"/> Film thickness - Cross sectioning by cutting	May-25	
2010543	<b>DBL 5425 (A.1.17)</b>	<input type="checkbox"/> Wash scratch resistance (Amtec-Kistler)	May-25	
2010545	<b>DBL 5425 (A.1.17)</b>	<input type="checkbox"/> Wipe scratch resistance (Crockmeter)	May-25	
2010721	<b>PV 3.3.3</b>	<input type="checkbox"/> Scratch Resistance of Clear Coats	May-25	
<b>Plastics - electroplating:</b>				
2010239	<b>ISO 1456 (ISO 1463, ISO 2177)</b>	<input type="checkbox"/> Coating thickness (Cu-Ni-Cr)	May-25	
2010241	<b>ISO 16866, ASTM B764</b>	<input type="checkbox"/> Coating thicknesses, potential difference (nickel layers)	May-25	
2010243	<b>DIN 53100</b>	<input type="checkbox"/> Number of micropores - microcracks	May-25	
2010219	<b>DBL 1665</b>	<input type="checkbox"/> Corrosion testing CASS (48 h)	May-25	
2010661	<b>PV 1058</b>	<input type="checkbox"/> Micro-crack pattern	May-25	
2010663	<b>PV 1063</b>	<input type="checkbox"/> Micropore Density	May-25	
2010665	<b>PV 1065</b>	<input type="checkbox"/> Potential Differences, Layer Thicknesses of Nickel	Sep-25	

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# Proficiency tests - Thermoplastics | Metals

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Plastics - Light fastness / Exposure tests</b>				<a href="#">Login or register</a>
Evaluation: Color change with grey scale and instrumental				
2010799	<b>ISO 105-B06</b>	<input type="checkbox"/> Light fastness	Apr-25	[P]
2010667	<b>PV 1303</b>	<input type="checkbox"/> Xenon Arc Light Aging	Mar-25	
2010867	<b>ISO 4892-2</b>	<input type="checkbox"/> Light fastness Xenon Arc light (cycle 1)	Apr-25	[P]
2010866	<b>ASTM G155</b>	<input type="checkbox"/> Light fastness Xenon Arc light (cycle 1)	Apr-25	[P]
2010868	<b>ISO 4892-3 and ASTM G154</b>	<input type="checkbox"/> Exposure to laboratory light (UV lamps)	Apr-25	[P]
2010128	<b>PV 3929</b>	<input type="checkbox"/> Weathering (Dry, Hot) - Kalahari test	Apr-25	
2010130	<b>PV 3930</b>	<input type="checkbox"/> Weathering (Humid, Hot) - Florida test	Apr-25	
2010846	<b>DIN 75220 D-IN1-T, VDA 230-219</b>	<input type="checkbox"/> Sunlight simulation	Apr-25	[P]
[P] = return of the tested samples is required				
Evaluation: Change of mechanical properties				
2010016	<b>ISO 4892-2</b>	<input type="checkbox"/> Light fastness cycle 1 (mechanics)	Apr-25	
<b>Assessing - Change in colour / Staining / Blistering:</b>				
2010026	<b>ISO 105 A02, A03</b>	<input type="checkbox"/> Visual evaluation with grey scale	Apr-25	
2010919	<b>ISO 105 A04, A05</b>	<input type="checkbox"/> Instrumental assessment	Apr-25	
2010701	<b>ISO 4628-2</b>	<input type="checkbox"/> Degree of blistering (quantity and size)	Apr-25	
2011046	<b>ISO 4628-3</b>	<input type="checkbox"/> Degree of rusting	Apr-25	
<b>Metals - corrosion testing:</b>				
2010820	<b>ISO 9227</b>	<input type="checkbox"/> Corrosion testing (NSS)	Apr-25	
2010018	<b>ISO 9227</b>	<input type="checkbox"/> Corrosion testing (CASS)	Apr-25	
2010561	<b>ISO 9227</b>	<input type="checkbox"/> Corrosion testing (AASS)	Apr-25	
2010020	<b>ASTM B117</b>	<input type="checkbox"/> Salt Spray test	Apr-25	
2010022	<b>GMW 14872</b>	<input type="checkbox"/> Exterior Cyclic Corrosion	Apr-25	
2010520	<b>DBL 7381.10 (KWT 1 steel)</b>	<input type="checkbox"/> Corrosion cycle test	May-25	
2010921	<b>DBL 7381.20 (CCT 2 steel, galvanized)</b>	<input type="checkbox"/> Corrosion cycle test	May-25	
2011043	<b>PV 1210</b>	<input type="checkbox"/> Corrosion Test	May-25	
2011044	<b>ISO 11997-1 (cycle A)</b>	<input type="checkbox"/> Corrosion Test	May-25	
2011047	<b>ISO 22479</b>	<input type="checkbox"/> Saturated atmosphere SO <sub>2</sub> (Kesternich)	May-25	
<b>Aluminum - corrosion testing:</b>				
2010850	<b>DBL 7381.50</b>	<input type="checkbox"/> Aluminum corrosion (Filiform and CASS)	Jun-25	
<b>Metals - paintwork:</b>				
2010024	<b>ISO 6270-2</b>	<input type="checkbox"/> Condensation atmosphere constant humidity (CH)	Mar-25	
2010295	<b>ISO 2360</b>	<input type="checkbox"/> Coating thickness Amplitude-sensitive eddy-current method	May-25	
2010615	<b>ISO 2178</b>	<input type="checkbox"/> Coating thickness - Magnetic method	May-25	
2010927	<b>DBL 7381.30</b>	<input type="checkbox"/> Technical-mechanical tests	Oct-25	
<b>Metals - X-ray fluorescence analysis (XRF)</b>				
2010171	<b>freely selectable</b>	<input type="checkbox"/> Determination of elements by X-ray fluorescence analysis (XRF), e.g. nickel, copper, zinc, lead	Jul-25	
2010371	<b>ISO 3497</b>	<input type="checkbox"/> Coating thickness - X-ray spectrometric method	Mar-25	
<b>Metals - surfaces</b>				
<b>Technical Cleanliness of components</b>				
2011172	<b>VDA 19.1, ISO 16232</b>	<input type="checkbox"/> Cleanliness (gravimetric)	May-25	

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# Proficiency tests - Thermoplastics | Pipes

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Burning behaviour / Fire hazard / Electrical properties:</b>				<a href="#">Login or register</a>
2010819	<b>FMVSS 302 and DIN 75200</b>	<input type="checkbox"/> Plastics - burning rate	Mar-25	
2010862	<b>UL 94 HB and IEC 60695-11-10</b>	<input type="checkbox"/> Burning rate	Mar-25	
2010863	<b>UL 94 V and IEC 60695-11-10</b>	<input type="checkbox"/> Burning rate	Mar-25	
2010655	<b>TL 1010</b>	<input type="checkbox"/> Burning behavior	Mar-25	
2010659	<b>TL 1011</b>	<input type="checkbox"/> Flammability	Mar-25	
2010547	<b>IEC 62631-3-2, VDE 0307-3-2</b>	<input type="checkbox"/> Surface resistance	May-25	
2010549	<b>IEC 62631-3-1, VDE 0307-3-1</b>	<input type="checkbox"/> Volume resistivity	May-25	
2010864	<b>IEC 60695-2-13</b>	<input type="checkbox"/> Glow wire ignitability temperature (GWIT)	Mar-25	
2010979	<b>IEC 60112</b>	<input type="checkbox"/> CTI - Tracking	Mar-25	
<b>Plastic pipes / pipe materials (PE)</b>				
2010792	<b>ISO 1167-1 -2</b>	<input type="checkbox"/> Resistance to internal pressure	Mar-25	
2010890	<b>ISO 17454</b>	<input type="checkbox"/> Adhesion of multilayer pipes	Mar-25	
2010891	<b>ISO 9969</b>	<input type="checkbox"/> Thermoplastics pipes - ring stiffness	Mar-25	
2010980	<b>freely selectable</b>	<input type="checkbox"/> Wall thickness measurement of plastic pipes	Mar-25	
2010004	<b>ISO 16770</b>	<input type="checkbox"/> Full-notch creep test (FNCT)	Apr-25	
2010118	<b>ISO 18488</b>	<input type="checkbox"/> Strain Hardening Modulus	Apr-25	
2010120	<b>ISO 18489</b>	<input type="checkbox"/> Crack growth - cracked round bar (CRB)	Apr-25	
2010529	<b>ISO 10147</b>	<input type="checkbox"/> Degree of crosslinking of PE-X	Apr-25	
<b>Plastic films</b>				
2010777	<b>ISO 527-3</b>	<input type="checkbox"/> Tensile test on plastic films	Mar-25	
2010970	<b>ISO 7765-1</b>	<input type="checkbox"/> Impact resistance - free-falling dart	Mar-25	
2010878	<b>ISO 6383-1</b>	<input type="checkbox"/> Tear resistance - Trouser tear method	Mar-25	
2010838	<b>ISO 6383-2, ASTM D1922</b>	<input type="checkbox"/> Tear resistance - Elmendorf method	Mar-25	
2010779	<b>ISO 4593</b>	<input type="checkbox"/> Film thickness	Mar-25	
2010780	<b>ISO 8295</b>	<input type="checkbox"/> Coefficients of friction	Mar-25	
2010879	<b>ISO 11339</b>	<input type="checkbox"/> T-Peel test	Mar-25	
2010880	<b>DIN 55529</b>	<input type="checkbox"/> Sealed-seam strength	Mar-25	
2010847	<b>ISO 15106-3</b>	<input type="checkbox"/> Water vapour transmission rate	Mar-25	
2010844	<b>ISO 15105-2</b>	<input type="checkbox"/> Gas transmission rate	Mar-25	
2010518	<b>ISO 15106-2</b>	<input type="checkbox"/> Water vapour transmission rate (IR sensor)	Mar-25	
2010781	<b>ISO 14782</b>	<input type="checkbox"/> Transparency - Haze	Mar-25	
2010012	<b>DIN 55543-5</b>	<input type="checkbox"/> Films - Adhesion strength	Mar-25	
2010312	<b>freely selectable</b>	<input type="checkbox"/> Identification of multi layer films	Mar-25	
2010115	<b>freely selectable</b>	<input type="checkbox"/> Identification of mono layer films	Sep-25	
2011205	<b>ISO 8296, ASTM D2578</b>	<input type="checkbox"/> Wetting tension (red test ink)	May-25	
2011237	<b>EN 14477</b>	<input type="checkbox"/> Puncture resistance	Mar-25	
2011238	<b>freely selectable</b>	<input type="checkbox"/> Multi layer film - layer thickness microtome cut	Mar-25	
2011239	<b>ASTM F88, EN 868-5 Appendix D</b>	<input type="checkbox"/> Plastic film construction - Sealed-seam strength	Mar-25	

**Migration testing:**  
Proficiency Tests for overall and specific migration can be found in the category consumer goods or in our online catalogue

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# Proficiency tests - Rubber and TPE | Geosynthetics

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Rubber and TPE:</b>				<a href="#">Login or register</a>
2010727	<b>ISO 2781</b>	<input type="checkbox"/> Density of rubber	May-25	
2010728	<b>ISO 37</b>	<input type="checkbox"/> Tensile properties (specimen S2)	May-25	
2010729	<b>ISO 37</b>	<input type="checkbox"/> Tensile properties (specimen S3A)	May-25	
2011033	<b>VDI 2019</b>	<input type="checkbox"/> Adhesion of thermoplastic elastomers (TPE)	May-25	
2010894	<b>ASTM D412</b>	<input type="checkbox"/> Tensile properties	May-25	
2010897	<b>ISO 34-1</b>	<input type="checkbox"/> Tear strength - trouser test piece	May-25	
2010761	<b>ISO 34-1</b>	<input type="checkbox"/> Tear strength - Angle test piece (without nick)	May-25	
2010760	<b>ISO 34-1</b>	<input type="checkbox"/> Tear strength - Angle test piece (with nick)	May-25	
2010895	<b>ISO 815</b>	<input type="checkbox"/> Compression set	May-25	
2010900	<b>ISO 815-2</b>	<input type="checkbox"/> Compression set at lower temperature	May-25	
2010896	<b>ISO 2285</b>	<input type="checkbox"/> Tension set	May-25	
2010731	<b>ISO 48-4 and ISO 868</b>	<input type="checkbox"/> Shore-A-Hardness	May-25	
2010898	<b>ASTM D2240</b>	<input type="checkbox"/> Shore-A-Hardness	May-25	
2010748	<b>ISO 48-2</b>	<input type="checkbox"/> Hardness IRHD, M	May-25	
2010899	<b>ISO 48-2</b>	<input type="checkbox"/> Hardness IRHD, N	May-25	
2010267	<b>ISO 48-4</b>	<input type="checkbox"/> Hardness Shore D	May-25	
2010762	<b>ISO 4662</b>	<input type="checkbox"/> Rebound resilience	May-25	
2010763	<b>ISO 4649</b>	<input type="checkbox"/> Abrasion resistance	May-25	
2010746	<b>ISO 11357-2 (rubber)</b>	<input type="checkbox"/> DSC-Analysis - glass transition temperature	May-25	
2010875	<b>ISO 1407</b>	<input type="checkbox"/> Solvent extract	May-25	
2010764	<b>ISO 289-1</b>	<input type="checkbox"/> Mooney viscosity	May-25	
2010749	<b>ISO 1817</b>	<input type="checkbox"/> Increase in mass	May-25	
2010750	<b>ISO 11358</b>	<input type="checkbox"/> Thermogravimetry - black carbon content (TGA)	May-25	
2010269	<b>ISO 1431-1</b>	<input type="checkbox"/> Resistance to ozone cracking	May-25	
2010508	<b>ISO 188</b>	<input type="checkbox"/> Accelerated ageing and heat resistance	May-25	
2010671	<b>PV 3305</b>	<input type="checkbox"/> Ozone Resistance and Permanent Deformation	May-25	
2010673	<b>PV 3307</b>	<input type="checkbox"/> Plastic and Elastic Deformability	May-25	
2010675	<b>PV 3330</b>	<input type="checkbox"/> O-Rings - Compression Set	May-25	
2010697	<b>PV 3973</b>	<input type="checkbox"/> O-Rings - Tensile test	May-25	
2010677	<b>PV 3366</b>	<input type="checkbox"/> Wear Characteristics of Flocking	May-25	
2010715	<b>PV 3988 (4.1)</b>	<input type="checkbox"/> Anti-Friction Coating - Coating thickness	Sep-25	
<b>Geosynthetics (geomembrane):</b>				
2010901	<b>ISO 527-1,-3</b>	<input type="checkbox"/> Tensile test geosynthetics	Mar-25	
2010902	<b>ASTM D6693</b>	<input type="checkbox"/> Tensile Properties of PE - PP Geomenbranes	Mar-25	
2010903	<b>ASTM D1004</b>	<input type="checkbox"/> Tear Resistance (Graves Tear)	Mar-25	
2010904	<b>ISO 12236</b>	<input type="checkbox"/> Static Puncture Test (CBR-Test)	Mar-25	
2010906	<b>ISO 9863-1</b>	<input type="checkbox"/> Thickness at specified pressures	Mar-25	
2010909	<b>EN1107-2</b>	<input type="checkbox"/> Dimensional stability	Mar-25	
2010759	<b>ISO 11358</b>	<input type="checkbox"/> Carbon black content (TGA)	Apr-25	

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# Proficiency tests - Foams | Composites | Paper

Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Foams (ISO / DBL / ASTM):</b>				<a href="#">Login or register</a>
2010848	<b>ISO 845</b>	<input type="checkbox"/> Cellular plastics - Apparent density	Apr-25	
2010829	<b>ISO 1798</b>	<input type="checkbox"/> Cellular plastics - Tensile test	Apr-25	
2010034	<b>ISO 8067</b>	<input type="checkbox"/> Cellular plastics - Tear strenght (method B)	Apr-25	
2010730	<b>ISO 1856</b>	<input type="checkbox"/> Cellular plastics - Compression set	Apr-25	
2010036	<b>ISO 3385</b>	<input type="checkbox"/> Cellular plastics - Fatigue	Apr-25	
2010831	<b>ISO 3386-1, DBL 5452</b>	<input type="checkbox"/> Cellular plastics - Compression	Apr-25	
2010038	<b>ISO 2439</b>	<input type="checkbox"/> Cellular plastics - Hardness	Apr-25	
2010874	<b>FMVSS 302 and DBL 5307</b>	<input type="checkbox"/> Cellular plastics - Burning rate	Apr-25	
2010040	<b>ASTM D3574 B1</b>	<input type="checkbox"/> Cellular plastics - Indentation Force	Apr-25	
2010042	<b>ASTM D3574 C</b>	<input type="checkbox"/> Cellular plastics - Compression Force	Apr-25	
2010044	<b>ASTM D3574 D</b>	<input type="checkbox"/> Cellular plastics - Compression Set	Apr-25	
2010046	<b>ASTM D3574 E</b>	<input type="checkbox"/> Cellular plastics - Tensile Test	Apr-25	
2010048	<b>ASTM D3574 F</b>	<input type="checkbox"/> Cellular plastics - Tear Resistance	Apr-25	
2010050	<b>ASTM D3574 I3</b>	<input type="checkbox"/> Cellular plastics - Fatigue	Apr-25	
2010052	<b>ASTM D3574 J</b>	<input type="checkbox"/> Cellular plastics - Steam Autoclave Aging	Apr-25	
2010054	<b>ASTM D3574 K</b>	<input type="checkbox"/> Cellular plastics - Dry Heat Aging	Apr-25	
2010152	<b>ASTM D3574 L</b>	<input type="checkbox"/> Cellular plastics - Wet Heat Aging	Apr-25	
2010412	<b>ASTM D3574 N</b>	<input type="checkbox"/> Cellular plastics - Hysteresis Loss	Apr-25	
<b>Composites - Fibre-reinforced plastics:</b>				
2010971	<b>ASTM D2583, EN 59</b>	<input type="checkbox"/> Barcol hardness	May-25	
2010060	<b>EN 2564</b>	<input type="checkbox"/> Fibre-, resin- and void contents	May-25	
2010726	<b>ISO 14125</b>	<input type="checkbox"/> Flexural properties	May-25	
2010724	<b>ISO 14126</b>	<input type="checkbox"/> Compressive properties	May-25	
2010725	<b>ISO 14129</b>	<input type="checkbox"/> 45° tension test method	May-25	
2010772	<b>ISO 14130</b>	<input type="checkbox"/> Apparent interlaminar shear strength	May-25	
2010723	<b>ISO 527-1,-4</b>	<input type="checkbox"/> Tensile properties	May-25	
2010768	<b>ISO 527-1,-5</b>	<input type="checkbox"/> Tensile properties	May-25	
2010522	<b>ASTM D5379</b>	<input type="checkbox"/> Shear Properties (V-Notched Beam)	May-25	
2011048	<b>ASTM D7078</b>	<input type="checkbox"/> Rail Shear Method	May-25	
2010524	<b>ISO 13003</b>	<input type="checkbox"/> Fatigue properties (cyclic loading conditions)	May-25	
2010062	<b>ISO 2555</b>	<input type="checkbox"/> Resins - apparent viscosity	May-25	
2010068	<b>ISO 3219</b>	<input type="checkbox"/> Resins - viscosity	May-25	
<b>Cured-in-place pipes (CIPP):</b>				
2010537	<b>ISO 11296-4</b>	<input type="checkbox"/> CIPP - Short-term flexural properties	May-25	
<b>Paper   Board:</b>				
2011024	<b>ISO 2528</b>	<input type="checkbox"/> Sheet materials - Water vapour transmission rate	Oct-25	
2011025	<b>ISO 535</b>	<input type="checkbox"/> Paper and board - Water absorptiveness (Cobb)	Oct-25	
2011026	<b>ISO 5636-3</b>	<input type="checkbox"/> Paper and board - Air permeance (Bendtsen)	Oct-25	
2011027	<b>ISO 5636-5</b>	<input type="checkbox"/> Paper and board - Air permeance (Gurley)	Oct-25	
2011028	<b>ISO 536</b>	<input type="checkbox"/> Paper and board - Grammage	Oct-25	
2011029	<b>ISO 534</b>	<input type="checkbox"/> Paper and board - Thickness, density, specific volume	Oct-25	
2011030	<b>ISO 12625-3</b>	<input type="checkbox"/> Tissue products - Thickness	Oct-25	
2011031	<b>ISO 12625-8</b>	<input type="checkbox"/> Tissue products - Water-absorption capacity	Oct-25	
2011032	<b>ISO 12625-6</b>	<input type="checkbox"/> Tissue products - Grammage	Oct-25	

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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Textiles - Fabric properties:</b>				<a href="#">Login or register</a>
2010733	<b>EN 12127 ISO 3801</b>	<input type="checkbox"/> Mass per unit area of fibre materials	May-25	
2010983	<b>freely selectable</b>	<input type="checkbox"/> Construction of fabric	May-25	
2010732	<b>ISO 9073-2</b>	<input type="checkbox"/> Thickness of nonwovens	May-25	
2010070	<b>ISO 9073-4</b>	<input type="checkbox"/> Tear resistance nonwovens	May-25	
2010635	<b>ISO 9073-3</b>	<input type="checkbox"/> Tensile properties of nonwovens	May-25	
2010734	<b>ISO 13934-1</b>	<input type="checkbox"/> Tensile properties - strip method	May-25	
2010837	<b>ISO 13934-2</b>	<input type="checkbox"/> Tensile properties - grab method	May-25	
2010778	<b>ISO 13937-1</b>	<input type="checkbox"/> Tear properties - Elmendorf method	May-25	
2010800	<b>ISO 13937-2</b>	<input type="checkbox"/> Tear properties - trouser shaped specimen	May-25	
2010801	<b>ISO 13937-3</b>	<input type="checkbox"/> Tear properties - wing shaped specimen	May-25	
2010802	<b>ISO 12947-2</b>	<input type="checkbox"/> Abrasion resistance - Martindale	May-25	
2010637	<b>ISO 12947-3</b>	<input type="checkbox"/> Abrasion resistance Martindale (mass loss)	May-25	
2010803	<b>ISO 12945-1</b>	<input type="checkbox"/> Pilling properties - Pilling box	May-25	
2010804	<b>ISO 12945-2</b>	<input type="checkbox"/> Pilling properties - Martindale	May-25	
2010841	<b>ISO 13936-1</b>	<input type="checkbox"/> Slippage resistance yarn - Fixed seam opening	May-25	
2011103	<b>ISO 13936-2</b>	<input type="checkbox"/> Slippage resistance yarns - Fixed load	May-25	
2010072	<b>ISO 13935-1</b>	<input type="checkbox"/> Maximum force seam	May-25	
2011177	<b>ISO 13935-2</b>	<input type="checkbox"/> Maximum force seam - grab method	May-25	
2010842	<b>ISO 13938-2</b>	<input type="checkbox"/> Bursting strength and Bursting distension	May-25	
2010751	<b>ISO 3071</b>	<input type="checkbox"/> pH value of textiles	May-25	
2010973	<b>DIN 54278-1</b>	<input type="checkbox"/> Textiles - materials soluble	May-25	
2011178	<b>ISO 16322-2</b>	<input type="checkbox"/> Textiles - spirality after laundering	May-25	
2011179	<b>ISO 15487</b>	<input type="checkbox"/> Textiles - Self-flatness behavior	May-25	
2011228	<b>ISO 20932-1</b>	<input type="checkbox"/> Elasticity of fabrics (strip test)	May-25	
<b>Textiles - fabric and functional properties (Automotive):</b>				
2010669	<b>PV 2034</b>	<input type="checkbox"/> Floating Roller Peel Test	Jan-25	
2010679	<b>PV 3906</b>	<input type="checkbox"/> Abrasion Behavior	May-25	
2010681	<b>PV 3908</b>	<input type="checkbox"/> Wear Resistance	May-25	
2010683	<b>PV 3909</b>	<input type="checkbox"/> Static and Permanent Elongation	May-25	
2011105	<b>PV 3949</b>	<input type="checkbox"/> Upholstery Cover Materials - Snag Test	May-25	
2010689	<b>PV 3955</b>	<input type="checkbox"/> Trim Cover Material - Seam Slippage Resistance	Jan-25	
2010691	<b>PV 3961</b>	<input type="checkbox"/> Trim Cover Material - Hook Fastener Test	Jan-25	
<b>Textiles - Functional properties</b>				
2010805	<b>freely selectable</b>	<input type="checkbox"/> Colour measurement diffuse 8°-geometry	May-25	
2010839	<b>ISO 811</b>	<input type="checkbox"/> Hydrostatic pressure test	May-25	
2011175	<b>UN, ECE R118 appendix 8</b>	<input type="checkbox"/> Vertical burning rate	May-25	
2011176	<b>ISO 6941</b>	<input type="checkbox"/> Textiles - Burning behaviour vertically oriented specimens	May-25	
2010840	<b>ISO 5077 - ISO 6330</b>	<input type="checkbox"/> Dimensional change in washing	May-25	
2010807	<b>ISO 15797</b>	<input type="checkbox"/> Industrial washing and colour change	May-25	
2010832	<b>ISO 9237</b>	<input type="checkbox"/> Permeability to air	May-25	
2010808	<b>FMVSS 302 and DIN 75200</b>	<input type="checkbox"/> Textiles - burning rate	May-25	
2010995	<b>ISO 11092</b>	<input type="checkbox"/> Thermal and water vapour resistance	May-25	
2010237	<b>ASTM E96 (BW)</b>	<input type="checkbox"/> Water Vapor Transmission	May-25	
2010074	<b>AATCC 22</b>	<input type="checkbox"/> Spray test - resistance to surface wetting ISO 4920	May-25	
2010319	<b>ISO 9865</b>	<input type="checkbox"/> Bundesmann Rain-shower test	May-25	
2010092	<b>ISO 14419</b>	<input type="checkbox"/> Oil repellency	May-25	
2010514	<b>EN 13758-1</b>	<input type="checkbox"/> Solar UV protective properties	May-25	



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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Textiles - Colour fastness:</b>				<a href="#">Login or register</a>
2010809	<b>ISO 105-B02</b>	<input type="checkbox"/> Colour fastness to light - Xenon arc	Oct-25	
2010810	<b>ISO 105-B04</b>	<input type="checkbox"/> Colour fastness to light - Xenon arc	Oct-25	
2010510	<b>ISO 105-B07</b>	<input type="checkbox"/> Colour fastness to light - artificial perspiration	Oct-25	
2010833	<b>ISO 105-C06 (C2S)</b>	<input type="checkbox"/> Colour fastness to washing 60°	Oct-25	
2010735	<b>ISO 105-X12</b>	<input type="checkbox"/> Colour fastness to rubbing - Crockmeter	Oct-25	
2010834	<b>ISO 105-C08</b>	<input type="checkbox"/> Colour Fastness to washing 60°C	Oct-25	
2010629	<b>ISO 105-C10</b>	<input type="checkbox"/> Colour fastness to washing with soap (and soda)	Oct-25	
2010835	<b>ISO 105-D01</b>	<input type="checkbox"/> Colour Fastness to dry cleaning	Oct-25	
2010512	<b>ISO 105-D02</b>	<input type="checkbox"/> Colour fastness to rubbing - organic solvents	Oct-25	
2010752	<b>ISO 105-E01</b>	<input type="checkbox"/> Colour Fastness to water	Oct-25	
2010223	<b>ISO 105-E02</b>	<input type="checkbox"/> Colour Fastness to sea water	Oct-25	
2010229	<b>ISO 105-E03</b>	<input type="checkbox"/> Colour Fastness to chlorinated water	Oct-25	
2010736	<b>ISO 105-E04</b>	<input type="checkbox"/> Colour Fastness to perspiration	Oct-25	
2010633	<b>ISO 105-N01</b>	<input type="checkbox"/> Colour fastness to bleaching - hypochlorite	Oct-25	
2010917	<b>ISO 105-N02</b>	<input type="checkbox"/> Colour fastness to bleaching - peroxide	Oct-25	
2010231	<b>ISO 105-X05</b>	<input type="checkbox"/> Colour fastness to organic solvents	Oct-25	
2010235	<b>ISO 105-X11</b>	<input type="checkbox"/> Colour fastness to hot pressing	Oct-25	
Further Proficiency Tests for chemical textile testing can be found in the category "consumer goods" or the online catalogue: <b>e.g. heavy metals, formaldehyde, flame retardants, azo dyes, pesticides, chlorophenols, phthalates, PAH, ...</b>				
<b>Assessing - Change in colour / Staining:</b>				
2010026	<b>ISO 105 A02, A03</b>	<input type="checkbox"/> Visual evaluation with grey scale	Apr-25	
2010919	<b>ISO 105 A04, A05</b>	<input type="checkbox"/> Instrumental assessment	Apr-25	
<b>Textilien - Bestimmung einer Fasermischung:</b>				
2010974	<b>freely selectable</b>	<input type="checkbox"/> Qualitative determination of a fibre blend	May-25	
2010737	<b>ISO 1833-11</b>	<input type="checkbox"/> Fibre blend - Proportion of cotton fibres	May-25	
2010776	<b>ISO 1833-12</b>	<input type="checkbox"/> Fibre blend - Proportion of acrylic fibres	May-25	
2010738	<b>ISO 1833-4</b>	<input type="checkbox"/> Fibre blend - Proportion of protein fibres	May-25	
2010739	<b>ISO 1833-6</b>	<input type="checkbox"/> Fibre blend - Proportion of viscose fibres	May-25	
2010740	<b>ISO 1833-7</b>	<input type="checkbox"/> Fibre blend - Proportion of polyamide fibres	May-25	
<b>Coated / laminated fabrics:</b>				
2010990	<b>ISO 32100</b>	<input type="checkbox"/> Coated fabrics - flex resistance (flexometer)	May-25	
2010991	<b>ISO 1421</b>	<input type="checkbox"/> Coated fabrics - tensile properties	May-25	
2011050	<b>ISO 2411</b>	<input type="checkbox"/> Coated fabrics - adhesion	May-25	
2010631	<b>ISO 4674-1</b>	<input type="checkbox"/> Coated fabrics - tear resistance (B)	May-25	
2010150	<b>ISO 2286-3</b>	<input type="checkbox"/> Coated fabrics - Thickness	May-25	
2010086	<b>ISO 7854-A</b>	<input type="checkbox"/> Resistance to damage by flexing (De Mattia)	May-25	
2010088	<b>ISO 7854-C</b>	<input type="checkbox"/> Resistance to damage by flexing (crumple - flex)	May-25	
2010090	<b>ISO 5470-2</b>	<input type="checkbox"/> Abrasion resistance (Martindale)	May-25	
<b>Individual fibres:</b>				
2010975	<b>ISO 1973</b>	<input type="checkbox"/> Linear density	May-25	
2010976	<b>ISO 5079</b>	<input type="checkbox"/> Textile fibres - tensile test	May-25	

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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Leather:</b>				<a href="#">Login or register</a>
2010770	<b>FMVSS 302 and DBL 5307</b>	<input type="checkbox"/> Leather - burning rate	Apr-25	
2010028	<b>ISO 3376</b>	<input type="checkbox"/> Leather tensile test	Apr-25	
2010030	<b>ISO 3377-1</b>	<input type="checkbox"/> Leather - tear load - single edge tear	Apr-25	
2010032	<b>ISO 3377-2</b>	<input type="checkbox"/> Leather - tear load - double edge tear	Apr-25	
2010066	<b>ISO 2589</b>	<input type="checkbox"/> Leather - Thickness	Apr-25	
2010713	<b>ISO 11640</b>	<input type="checkbox"/> Colour fastness to cycles of rubbing	Apr-25	
2010709	<b>ISO 17186</b>	<input type="checkbox"/> Surface coating thickness	Apr-25	
2010516	<b>VDA 270</b>	<input type="checkbox"/> Odour test (variant D4 and D5)	Apr-25	
2010645	<b>ISO 4045</b>	<input type="checkbox"/> Leather - pH value and difference figure	Apr-25	
2010643	<b>ISO 11641</b>	<input type="checkbox"/> Leather - colour fastness to perspiration	Apr-25	
2010647	<b>ISO 11642</b>	<input type="checkbox"/> Leather - colour fastness to water	Apr-25	
2011173	<b>ISO 14268</b>	<input type="checkbox"/> Leather - water vapour permeability	Apr-25	
2010695	<b>PV 3968</b>	<input type="checkbox"/> Soiling Behavior	Apr-25	
Proficiency Tests for chemical leather testing can be found in the category "consumer goods" or the online catalogue: <b>e.g. metal content, preservatives, formaldehyde, chlorophenols, volatile substances, organotin compounds</b>				
<b>Protective clothing (general):</b>				
2010094	<b>ISO 13996</b>	<input type="checkbox"/> Puncture resistance	May-25	
2010096	<b>EN 1149-1</b>	<input type="checkbox"/> Surface resistivity	May-25	
2010098	<b>EN 1149-2</b>	<input type="checkbox"/> Vertical resistance	May-25	
2010100	<b>EN 1149-3</b>	<input type="checkbox"/> Charge decay	May-25	
2010102	<b>ISO 15025</b>	<input type="checkbox"/> Limited flame spread	May-25	
2010104	<b>ISO 9185</b>	<input type="checkbox"/> Resistance to molten metal splash	May-25	
2011182	<b>ISO 6530</b>	<input type="checkbox"/> Resistance of materials to penetration by liquids	May-25	
2011183	<b>ISO 17493</b>	<input type="checkbox"/> Convective heat resistance (hot air circulating oven)	May-25	
2011229	<b>ISO 6942 (method B)</b>	<input type="checkbox"/> Source of radiant heat - protective effect	May-25	
2011230	<b>ISO 9151</b>	<input type="checkbox"/> Heat transmission on exposure to flame	May-25	
<b>Protective gloves:</b>				
2010639	<b>EN 388</b>	<input type="checkbox"/> Protective gloves against mechanical risks	May-25	
2011036	<b>ISO 13997</b>	<input type="checkbox"/> Protective gloves - resistance to cutting	May-25	
2011180	<b>ISO 21420</b>	<input type="checkbox"/> Protective gloves - length and finger dexterity	May-25	
<b>Filtering half masks:</b>				
2010551	<b>EN 149+A1, EN 13274-7</b>	<input type="checkbox"/> Filtering half masks - penetration	May-25	
2010321	<b>EN 14683</b>	<input type="checkbox"/> Test method Medical face masks	May-25	
2010621	<b>EN 14683 (ISO 22609)</b>	<input type="checkbox"/> Medical face masks - Splash Resistance	May-25	
<b>High visibility clothing:</b>				
2010106	<b>ISO 20471 (5.1)</b>	<input type="checkbox"/> Color measurement (background material)	May-25	
2010108	<b>ISO 20471 (6.1)</b>	<input type="checkbox"/> Retroreflection (retroreflective material)	May-25	
<b>Microplastics from textile sources:</b>				
2010625	<b>AATCC TM 212, ISO 4484-1</b>	<input type="checkbox"/> Microplastics - mass loss textile	May-25	
2011174	<b>ISO 4484-2</b>	<input type="checkbox"/> Qual. and quant. evaluation of microplastics	May-25	

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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
In cooperation with:  and 				
<a href="#">Login or register</a>				
<b>Environmental testing</b>				
2011035	<b>IEC 60068-2-6, -2-64</b>	<input type="checkbox"/> Vibration	Mar-25	
2011107	<b>IEC 60068-2-6, -2-64 (round 2)</b>	<input type="checkbox"/> Vibration	Jan-25	
2011196	<b>IEC 60068-2-6, -2-64 (round 3)</b>	<input type="checkbox"/> Vibration	Jan-25	
2011034	<b>IEC 60068-2-27</b>	<input type="checkbox"/> Shock	May-25	
2011194	<b>IEC 60068-2-14</b>	<input type="checkbox"/> Change of temperature - Test N	Mar-25	
2011195	<b>IEC 60068-2-30, -2-38</b>	<input type="checkbox"/> Damp heat and temperature-humidity cyclic	Mar-25	
2011250	<b>IEC 60068-2-30, -2-38 (round 2)</b>	<input type="checkbox"/> Damp heat and temperature-humidity cyclic	May-25	
<b>Electromagnetic compatibility (EMC)</b>				
<b>Part I - Radiated emissions / disturbance:</b>				
2011065	<b>RTCA DO-160 (sec. 21)</b>	<input type="checkbox"/> Emission of Radio Frequency Energy 2 MHz - 6 GHz	Apr-25	
2011066	<b>MIL-STD461 (RE102) - AECTP 500 (NRE02) - VG95373-12 (SA04G)</b>	<input type="checkbox"/> Radiated Emissions - Electric Field 10 kHz - 18 GHz	Aug-25	
2011072	<b>CISPR 25</b>	<input type="checkbox"/> Radiated emissions assemblies - Anechoic chamber 150 kHz - 6 GHz	Aug-25	
2011074	<b>UN ECE R10 (6.5, 6.6)</b>	<input type="checkbox"/> Broadband and narrowband electromagnetic interference (ESA) - 30 MHz - 1 GHz (BB and NB)	Aug-25	
2010931	<b>CISPR 16-2-3 - EN 55016-2-3 - EN 55011</b>	<input type="checkbox"/> Radiated disturbance 30 MHz - 6 GHz Antenna distance 3 m, (EN 55011 up to 1 GHz)	Apr-25	
<b>Part II - Radiated susceptibility:</b>				
2011077	<b>RTCA DO-160 (sec. 20)</b>	<input type="checkbox"/> Radio Frequency Susceptibility (Radiated) 100 MHz - 8 GHz   test level: Cat R	Apr-25	
2011078	<b>MIL-STD461 (RS103) - AECTP 500 (NRS02) - VG95373-13 (SF03G)</b>	<input type="checkbox"/> Radiated susceptibility - electric field 10 kHz - 40 GHz   test level: 50 V/m	Aug-25	
2011084	<b>ISO 11452-2</b>	<input type="checkbox"/> Electrical disturbances - Absorber-lined shielded enclosure 200 MHz - 6 GHz   Limit value / test level: bis 100 V/m	Aug-25	
2011085	<b>UN ECE R10 (6.8)</b>	<input type="checkbox"/> Immunity (ESA) - electromagnetic radiation - free field 20 MHz - 2000 MHz   Limit value / test level: 30 V/m	Aug-25	
2010933	<b>IEC 61000-4-3</b>	<input type="checkbox"/> Radiated, radio-frequency, electromagn. field immunity 80 MHz - 6 GHz   Limit value / test level: 10 V/m, 3 V/m	Apr-25	
<b>Part III - Conducted emissions / disturbance:</b>				
2011054	<b>CISPR 16-2-1 - EN 55016-2-1 - EN 55011</b>	<input type="checkbox"/> Conducted disturbance 150 kHz - 30 MHz	May-25	
2011240	<b>CISPR 25</b>	<input type="checkbox"/> Conducted disturbances 150 kHz - 108 MHz	Oct-25	
2011241	<b>RTCA DO-160 (sec. 21)</b>	<input type="checkbox"/> Conducted RF emissions 10 kHz - 200 MHz	Oct-25	
2011242	<b>MIL-STD461 (CE101)</b>	<input type="checkbox"/> Conducted emissions, audio frequency currents, power leads 30 Hz to 10 kHz	Oct-25	
2011243	<b>MIL-STD461 (CE102)</b>	<input type="checkbox"/> Conducted emissions, audio frequency currents, power leads 10 kHz to 10 MHz	Oct-25	
2011244	<b>ISO 7637-2 - UN ECE R10 (6.7)</b>	<input type="checkbox"/> Emission of transient conducted disturbances on supply lines slow (ms) and fast (ns und µs) pulses	Oct-25	

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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Electromagnetic compatibility (EMC):</b>				<a href="#">Login or register</a>
<b>Part IV - Conducted susceptibility:</b>				
2011055	<b>IEC 61000-4-2</b>	<input type="checkbox"/> Electrostatic discharge immunity	May-25	
2011057	<b>IEC 61000-4-4</b>	<input type="checkbox"/> Electrical fast transient immunity	May-25	
2011058	<b>IEC 61000-4-5</b>	<input type="checkbox"/> Surge immunity	May-25	
2011059	<b>IEC 61000-4-6</b>	<input type="checkbox"/> Immunity - conducted disturbances (radio-frequency fields)	May-25	
2011060	<b>IEC 61000-4-8</b>	<input type="checkbox"/> Power frequency magnetic field immunity	May-25	
2011061	<b>IEC 61000-4-9</b>	<input type="checkbox"/> Impulse magnetic field immunity	May-25	
2011063	<b>IEC 61000-4-11</b>	<input type="checkbox"/> Voltage dips, short interruptions, voltage variations immunity	May-25	
2011245	<b>ISO 11452-4 - UN ECE R10 (6.8)</b>	<input type="checkbox"/> Immunity (ESA) - bulk current injection (BCI) 10 kHz - 400 MHz	Oct-25	
2011246	<b>RTCA DO-160 (sec. 20)</b>	<input type="checkbox"/> Conducted Susceptibility (BCI) 10 kHz - 400 MHz	Oct-25	
2011247	<b>MIL-STD461 (CS114)</b>	<input type="checkbox"/> Conducted susceptibility, bulk cable injection (BCI) 4 kHz - 200 MHz	Oct-25	
2011248	<b>ISO 7637-2 - UN ECE R10 (6.9)</b>	<input type="checkbox"/> Transient disturbances conducted along supply lines Pulse 1, 2a, 2b, 3a, 3b und 4	Oct-25	
2011249	<b>ISO 10605 (8.3)</b>	<input type="checkbox"/> Electrostatic discharge (powered-up direct discharges)	May-25	

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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Hardened concrete:</b>				<a href="#">Login or register</a>
2010288	<b>EN 12390-7 und -3</b>	<input type="checkbox"/> Hardened concrete - Density and Compressive strength	Dec-25	
2010290	<b>EN 12390-5</b>	<input type="checkbox"/> Flexural strength of test specimens	Dec-25	
2010589	<b>EN 12390-6</b>	<input type="checkbox"/> Tensile splitting strength	Dec-25	
2010591	<b>EN 12390-8</b>	<input type="checkbox"/> Depth of penetration of water under pressure	Dec-25	
2010205	<b>EN 14629</b>	<input type="checkbox"/> Chloride content in hardened concrete	Nov-25	
<b>Fresh concrete: [sample preparation by the participant]</b>				
2010593	<b>EN 12350-4,-5,-6,-7</b>	<input type="checkbox"/> Fresh concrete	Dec-25	
<b>Cement:</b>				
2010284	<b>EN 196-1</b>	<input type="checkbox"/> Compressive and flexural strength	Nov-25	
2010266	<b>EN 196-2</b>	<input type="checkbox"/> Chloride content of cement	Nov-25	
2010268	<b>EN 196-2</b>	<input type="checkbox"/> Loss of ignition of cement	Nov-25	
2010569	<b>EN 196-2</b>	<input type="checkbox"/> Total sulphate content	Nov-25	
2011236	<b>EN 196-2</b>	<input type="checkbox"/> Residue insoluble (hydrochloric acid - sodium carbonate)	Nov-25	
2010595	<b>EN 196-3</b>	<input type="checkbox"/> Setting times and soundness	Nov-25	
2010597	<b>EN 196-6</b>	<input type="checkbox"/> Fineness	Nov-25	
2011184	<b>EN 196-10</b>	<input type="checkbox"/> Cement - water-soluble chromium (VI)	Nov-25	
<b>Mortar for masonry: [sample preparation by the participant]</b>				
2010599	<b>EN 1015-1</b>	<input type="checkbox"/> Particle size distribution (by sieve analysis)	Dec-25	
2010601	<b>EN 1015-3,-6,-7</b>	<input type="checkbox"/> Fresh mortar	Dec-25	
2010276	<b>EN 1015-10</b>	<input type="checkbox"/> Dry bulk density of hardened mortar	Dec-25	
2010298	<b>EN 1015-11</b>	<input type="checkbox"/> Flexural and compressive strength	Dec-25	
2010300	<b>EN 1015-12</b>	<input type="checkbox"/> Adhesive strength of hardened mortars	Dec-25	
<b>Masonry units:</b>				
2010603	<b>EN 772-1</b>	<input type="checkbox"/> Compressive strength	Nov-25	
2010605	<b>EN 772-21</b>	<input type="checkbox"/> Water absorption by cold water absorption	Nov-25	
<b>Mineral building materials:</b>				
2010571	<b>ISO 12570</b>	<input type="checkbox"/> Moisture content	Nov-25	
2010573	<b>ISO 12571</b>	<input type="checkbox"/> Hygroscopic sorption properties	Nov-25	

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Art. no.	Standard	Proficiency testing type <sup>[A]</sup>	Period	To view pricing information:
<b>Aggregates:</b>				<a href="#">Login or register</a>
2010611	<b>EN 933-1</b>	<input type="checkbox"/> Particle size distribution - Sieving method	Dec-25	
2010613	<b>EN 933-4</b>	<input type="checkbox"/> Particle shape - Shape index	Dec-25	
2011185	<b>EN 933-9</b>	<input type="checkbox"/> Fines - Methylene blue test	Nov-25	
2011186	<b>EN 933-10</b>	<input type="checkbox"/> Fines - Grading of filler aggregates	Nov-25	
2010575	<b>EN 1097-3</b>	<input type="checkbox"/> Loose bulk density and voids	Nov-25	
2010579	<b>EN 1097-6</b>	<input type="checkbox"/> Particle density and water absorption	Nov-25	
2010581	<b>EN 1744-1</b>	<input type="checkbox"/> Water-soluble chloride salts - Volhard method	Nov-25	
2011187	<b>EN 1744-1</b>	<input type="checkbox"/> Water-soluble chloride salts - potentiometry	Nov-25	
2010583	<b>EN 1744-1</b>	<input type="checkbox"/> Total sulfur content, Acid soluble sulfates	Nov-25	
2011234	<b>EN 1367-1</b>	<input type="checkbox"/> Resistance to freezing and thawing	Nov-25	
2011235	<b>EN 933-7</b>	<input type="checkbox"/> Shell content	Nov-25	
<b>Bituminous mixtures &amp; Bitumen:</b>				
2011191	<b>EN 12697-1</b>	<input type="checkbox"/> Bituminous mixtures - Soluble binder content	Dec-25	
2011192	<b>EN 1426</b>	<input type="checkbox"/> Bitumen - needle penetration	Dec-25	
2011193	<b>EN 1427</b>	<input type="checkbox"/> Bitumen - softening point	Dec-25	
2011197	<b>EN 12697-6</b>	<input type="checkbox"/> Bulk density of bituminous specimens (Procedure B)	Dec-25	
<b>Thermal insulating material:</b>				
2010587	<b>ISO 29470</b>	<input type="checkbox"/> Thermal insulating products - Apparent density	Dec-25	
2010607	<b>EN 1607</b>	<input type="checkbox"/> Tensile strength perpendicular to faces	Dec-25	
2011040	<b>EN 12089</b>	<input type="checkbox"/> Bending behaviour	Dec-25	
2010609	<b>ISO 29469</b>	<input type="checkbox"/> Compression behaviour	Dec-25	
2010286	<b>EN 29052-1</b>	<input type="checkbox"/> Dynamic stiffness	Dec-25	
2010280	<b>EN 12667</b>	<input type="checkbox"/> Thermal resistance	Dec-25	
2011188	<b>ISO 16535</b>	<input type="checkbox"/> Long term water absorption by immersion (2A)	Dec-25	
2011189	<b>EN 1604</b>	<input type="checkbox"/> Thermal insulating products - dimensional stability	Dec-25	
2011190	<b>EN 12086</b>	<input type="checkbox"/> Thermal insulating products - water vapour transmission	Dec-25	
2011231	<b>ISO 16546</b>	<input type="checkbox"/> Freeze-thaw resistance	Dec-25	
2011232	<b>EN 12430</b>	<input type="checkbox"/> Behaviour under point load	Dec-25	
2011233	<b>EN 1605</b>	<input type="checkbox"/> Deformation under compressive load and temperature conditions	Dec-25	
<b>Other building material:</b>				
2010282	<b>ISO 15148</b>	<input type="checkbox"/> Water absorption coefficient by partial immersion	Nov-25	

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Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters <sup>[*]</sup>	risk group	Period	To view pricing information:
<b>Other building materials</b>					<a href="#">Login or register</a>
2010682	<b>moulds building materials (surface contact sample)</b>	<input type="checkbox"/> moulds [cfu/sample]	<b>risk group 2</b>	Apr-25	
2010684	<b>moulds building materials (material sample)</b>	<input type="checkbox"/> moulds qualitative [cfu/g]	<b>risk group 2</b>	Apr-25	
<b>Plastics - surfaces</b>					
2010623	<b>Antibacterial activity plastics - ISO 22196</b>	<input type="checkbox"/> antibacterial activity S.aureus [log10 reduction], antibacterial activity E.coli [log10 reduction]		May-25	

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[\*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our [online portal \(ODIN\)](#).

# registration form proficiency testing



Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type
_____	_____
_____	_____
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**For questions and suggestions do not hesitate to contact the DRRR-team!**

+49(0)831/960 878-0

[info@DRRR.de](mailto:info@DRRR.de)

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**For proficiency testing schemes labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG) in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

- Your registration is an one-time order. It is only valid for one year. Cancellation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.
- This registration is permanent-registration and valid until my cancellation
  - An offer with the total costs is needed
  - A Purchase order from the purchasing department will follow

Order by e-mail: [info@DRRR.de](mailto:info@DRRR.de)  
 Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

_____	<b>DRRR-customer number</b>
_____	<b>company</b>
_____	<b>additional line</b>
_____	<b>contact person</b>
_____	<b>street</b>
_____	<b>post code / city</b>
_____	<b>country</b>
_____	<b>email</b>
_____	<b>VAT-ID (EU)</b>

Date:

**Deutsches Referenzbüro**  
 für Ringversuche und Referenzmaterialien GmbH  
 Reinhartser Straße 31 | 87437 Kempten  
 Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99  
[www.DRRR.de](http://www.DRRR.de) | [info@DRRR.de](mailto:info@DRRR.de)

### Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

Description reference material

### Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivative reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

Profit with our high quality standards for your lab work

### Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.

### Availability

For all Proficiency testing schemes in this catalogue reference material is available. You can contact us for price information or for currently available reference materials.

Availability and order request of reference material

## Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

- Fast and easy online registration / online announcement in our online catalogue
- Direct management and booking of the proficiency testing
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates
- Supervisor rights available to overview all PTs of a multi-site company
- Saving of costs through booking and submission of your results via ODIN

## Secure payment with IRIS (Internet Remuneration Information Service).

- Easy and safe payment by credit card
- Overview about all invoices
- Fast and secure online access

*You can also pay your invoice via banktransfer or bank check.*



Book Ringtrials Online

➤ Proficiency testing catalog



Enter Results Online

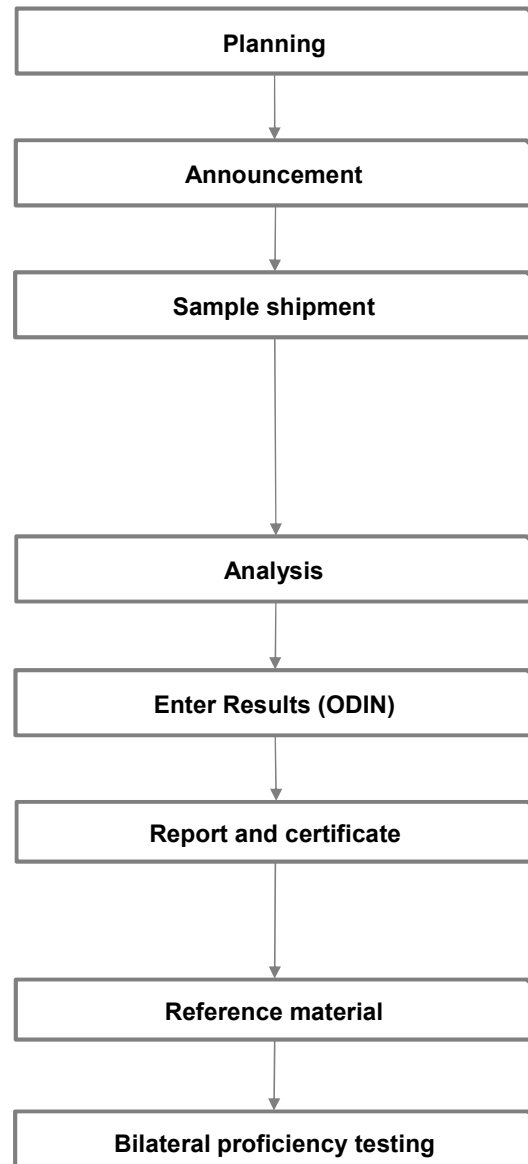
➤ Booked proficiency testings



Download Reports and  
Certificates

➤ Booked proficiency testings

- A precise planning and organisation of each proficiency testing round
- 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details
- According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.  
  
We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.
- After receiving the samples you will have a period of 4 weeks for analysing
- Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN
- At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance
- After the proficiency testing we can offer you reference materials
- Possibility to perform a bilateral proficiency testing (bPT)



# Benefits of proficiency testing

## Why take part in proficiency testing?

- Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers
- Participants can compare, assure and improve their own performance and quality against other laboratories worldwide
- Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories
- Saving on the costs of testing
- Unquestionable lab performance towards customers, authorities and certification authorities
- Saving on the costs of lab development and maintenance
- Saving on the costs of lab development and maintenance
- Saving on production costs by avoiding waste of raw material

## Your benefits in DRRR proficiency testing schemes

- Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories
- Saving the costs, because you have the opportunity to analyze more samples and more parameters in one proficiency testing
- External demonstration of your performance with the results of the proficiency testing
- Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence
- Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us

GOOD  
BETTER  
BEST

Image source:  
iStock.com/3dts

## We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogenous and stable sample material

## Laboratory performance:

by calculation of the following parameters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

## Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics (Hampel estimator, Q-method)
- Robust statistics (Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the  $\chi^2$ -fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



## z'-score > 2: What to do?

### You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.

These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

### Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually\*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.

(\* normally not longer than 1 - 2 weeks)

The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

### The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.

You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

### Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager). Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

**On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.**

**Please do not hesitate to contact us.**

### IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarities for the IR calibration of selected food will be discussed. The specific peculiarities of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical exercise calibration data sets will be tested for suitability and critical data sets will be identified.

### Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

### User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

### Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classic misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

### Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test,  $q_{i^2}$ -adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.

# Sales terms and delivery conditions



## Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.

Terms of payment: 8 days net, without deduction

Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

### Our bank details:

Raiffeisenbank in Allgäuer Land / bank code 733 692 64

Account 102350 / IBAN DE 94733692640000102350

BIC code: GENO DEF1DTA

Sales tax ID no. DE254613132

tax number 127/124/32207

## Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked "frozen" are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

### Terms of delivery (risk group 1, 2 and 3)

Proficiency tests or reference materials marked with "Risk Group 1" are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with "risk group 2, or risk group 3\*\*\*", we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

© DRRR Stand: 17.10.2024  
(changes reserved)

**The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.**

## § 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.

Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.

If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations.

The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

## § 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.

The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.

The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.

A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

<b>Cancellation notification period:</b>	Permanent registration (D)
	single (one-time) registration €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

## § 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

## § 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments.

Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).

The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.

No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order. Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.

The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.

The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.

The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.

If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.

The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.

The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.

All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.

In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.

All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.

The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.

For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

## § 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.

Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.

All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded.

Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

## § 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.

The goods remain the property of DRRR until they have been paid for in full by the customer.

The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.

Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.

The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction).

Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.

Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

## § 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.

The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.

The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.

If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

## § 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.

The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.

The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

## § 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:

The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.

Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.

Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.

The warranty is limited to the stated expiration date of the reference materials.

This applies to: ieLab, TGZ AQS Baden-Württemberg

# Medical devices

## product catalogue 2025



chemical-physical

immunological, molecular  
biological & microbiological

Bildquelle:  
[unsplash.com/photos/pV5arhEZHiA](https://unsplash.com/photos/pV5arhEZHiA)

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## Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

### Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 500 PT's per year

### Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Accredited PT-provider

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).



### Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

### Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

## Features

The inspectors of the DRRR-team are represent in different national and international committees and working groups. Thus we ensure that the DRRR quality assurance systems are available for new and up-to-date questions in all cases, if the laboratories start to establish the routine method. Due to the intensive professional exchange in the committees, it is ensured that the proficiency testing design is conformed to the new developments and the laboratories have the highest possible benefits in a participation in the proficiency testing.

**National and international committees and working groups**

## Testing with matrix reference

Whenever possible, real matrices e.g. films, textiles, cardboard and cosmetics are used. This ensures that our proficiency testing schemes have an actual matrix reference and the sample preparation is part of the proficiency testing.

**Matrix reference**

## Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

**Market-leading statistical evaluation**

## Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

# Individual Proficiency testing



In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

## Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

**Benefit from our high quality standards in all important fields of testing.**

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

**Get in touch with us.**

**We look forward to working with you!**

# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>medical devices - NEW!</b>					<a href="#">Login or register</a>
2011276	<b>Medical devices - TOC und THC</b>	<input type="checkbox"/> total organic carbon (TOC) [µg], total hydrocarbons (THC) [µg] (all quantitative)		Nov-25	
<b>medical devices</b>					
2010375	<b>Medical devices - ethylene oxide residues (ISO 10993-7) 1</b>	<input type="checkbox"/> ethylene oxide (CAS 75-21-8) [mg/kg], ethylene chlorohydrin (CAS 107-07-3) [mg/kg] (all quantitative)		Sep-25	
2010377	<b>Medical devices - ethylene oxide residues (ISO 10993-7) 2</b>	<input type="checkbox"/> ethylene oxide (CAS 75-21-8) [mg/kg], ethylene chlorohydrin (CAS 107-07-3) [mg/kg] (all quantitative)		Sep-25	
2010379	<b>Medical devices - extraction of metals (ISO 10993-12)</b>	<input type="checkbox"/> zinc (Zn) [µg/l], nickel (Ni) [µg/l], cadmium (Cd) [µg/l], lead (Pb) [µg/l], copper (Cu) [µg/l] (all quantitative)		Jun-25	
2010381	<b>Medical devices - qual. characterization (ISO 10993-18)</b>	<input type="checkbox"/> qual. characterization of medical devices (all qualitative)		Jul-25	
2010383	<b>Medical devices - quan. characterization (ISO 10993-18) - XRF</b>	<input type="checkbox"/> determination of the elements using XRF [%] (all quantitative)		Jul-25	
2010385	<b>Medical devices - quan. characterization (ISO 10993-18) - Formaldehyde</b>	<input type="checkbox"/> formaldehyde (CAS 50-00-0) [mg/kg] (all quantitative)		Jul-25	
2010387	<b>Medical devices - degradation products from ceramics (ISO 10993-14) 1</b>	<input type="checkbox"/> mass of the filter residue [mg], mass of the dissolved material [mg] (all quantitative)		May-25	
2010389	<b>Medical devices - degradation products from ceramics (ISO 10993-14) 2</b>	<input type="checkbox"/> quantitative determination of the elements in the test solution [mg/kg] (all quantitative)		May-25	
2010391	<b>Medical devices - loss of polymer mass (ISO 10993-13) 1</b>	<input type="checkbox"/> mass loss of the sample in the test solution water [mg] (all quantitative)		Aug-25	
2010393	<b>Medical devices - loss of polymer mass (ISO 10993-13) 2</b>	<input type="checkbox"/> mass loss of the sample in the test solution water [mg] (all quantitative)		Aug-25	
2011168	<b>Medical devices - gravim.</b>	<input type="checkbox"/> extractables (n-hexane) [mg/dm <sup>2</sup> ], extractables (iso-propanol) [mg/dm <sup>2</sup> ] (all quantitative)		Jul-25	
2011169	<b>Medical devices - extractables &amp; leachables</b>	<input type="checkbox"/> identification of various extractables & leachables (qual.), quantification of the identified extractables & leachables [µg/ml] (quant.)		Aug-25	
2011159	<b>Medical devices - extraction of elements (ISO 10993-12)</b>	<input type="checkbox"/> calcium (Ca), phosphorus (P), magnesium (Mg), fluorine (F), manganese (Mn), chromium (Cr), Iodine (I), selenium (Se) (all quantitative)		Sep-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

[\*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our [online portal \(ODIN\)](#).

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>medical devices - NEW!</b>					<a href="#">Login or register</a>
2011286	Medical devices - in vitro skin irritation (ISO 10993-23)	<input type="checkbox"/> skin irritation (all qualitative)		Oct-25	
2011287	Medical devices - pyrogenic monocyte activation test (Ph. EP 2.6.30)	<input type="checkbox"/> monocyte activation, IL-6 (all qualitative)		Nov-25	
2011288	Medical devices - in vitro skin sensitisation (OECD 442D, KeratinoSens)	<input type="checkbox"/> skin sensitisation (all qualitative)		Dec-25	
2011289	Medical devices - in vitro skin sensitisation (OECD 442E, h-CLAT)	<input type="checkbox"/> skin sensitisation, CD86, CD54 (all qualitative)		Dec-25	
2011290	Medical devices - in vitro eye irritation (OECD492b)	<input type="checkbox"/> in vitro eye irritation (all qualitative)		Sep-25	
2011291	Medical devices - detection of endotoxins (ISO 11737-3)	<input type="checkbox"/> endotoxins (all qualitative)		Oct-25	
2011292	Sterility testing medical devices (Ph. Eur. 2.6.1)	<input type="checkbox"/> aerobic microbial load (all qualitative)	<b>risk group 1</b>	Oct-25	
2011293	Microbiological analysis of water from dental units 1	<input type="checkbox"/> aerobic total count 36°C (all quantitative)	<b>risk group 1</b>	Oct-25	
2011294	Microbiological analysis of water from dental units 2	<input type="checkbox"/> Ps.aeruginosa (all quantitative)	<b>risk group 2</b>	Oct-25	
2011295	Microbiological analysis of water from dental units 3	<input type="checkbox"/> Legionella spp. plating (original sample), Legionella spp. membrane filtration (with acid treatment) (all quantitative)	<b>risk group 2</b>	Oct-25	
2011296	Microbiological analysis of dialysis water 1	<input type="checkbox"/> Aerobic total count 36 °C, Aerobic total count 20 °C (all quantitative)	<b>risk group 1</b>	Oct-25	
2011297	Microbiological analysis of dialysis water 2	<input type="checkbox"/> Ps. aeruginosa (all quantitative)	<b>risk group 2</b>	Oct-25	
2011298	Microbiological analysis of dialysis water 3	<input type="checkbox"/> E.coli, Coliforms (all quantitative)	<b>risk group 1</b>	Oct-25	
<b>medical devices</b>					
2010696	Testing of sterilization of medical devices 1 (ISO 11737-1)	<input type="checkbox"/> aerobic total count [cfu/product] (all quantitative)	<b>risk group 1</b>	Jun-25	
2010964	Testing of sterilization of medical devices 2 (ISO 11737-1)	<input type="checkbox"/> yeasts [cfu/product] (all quantitative)	<b>risk group 1</b>	Jun-25	
2010966	Testing of sterilization of medical devices 3 (ISO 11737-1)	<input type="checkbox"/> moulds [cfu/product] (all quantitative)	<b>risk group 1</b>	Jun-25	
2010968	Testing of sterilization of medical devices 4 (ISO 11737-1)	<input type="checkbox"/> aerobic spores [cfu/product] (all quantitative)	<b>risk group 1</b>	Jun-25	
2011171	Testing of sterilization of medical devices 5 (ISO 11737-1)	<input type="checkbox"/> anaerobic spores [cfu/product] (all quantitative)	<b>risk group 2</b>	Jun-25	
2010281	Tests for in vitro cytotoxicity (ISO 10993-5)	<input type="checkbox"/> in vitro cytotoxicity qualitative (all qualitative)		Nov-25	
2010283	Microbial barrier testing of packaging materials	<input type="checkbox"/> microbial barrier (all qualitative)	<b>risk group 1</b>	Nov-25	
2010657	Identification of microorganisms using MALDI-ToF	<input type="checkbox"/> identification of microorganism MALDI-ToF (all qualitative)	<b>risk group 2</b>	Nov-25	
2010567	Microbiological analysis of endoscopes	<input type="checkbox"/> aerobic total count [cfu/endoscope channel] (quant.), identification of germs (qual.)	<b>risk group 2</b>	Oct-25	
2010961	Medical devices - protein residues	<input type="checkbox"/> protein [µg]§2§		Sep-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

[\*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our [online portal \(ODIN\)](#).

# registration form proficiency testing



Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**For questions and suggestions do not hesitate to contact the DRRR-team!**

+49(0)831/960 878-0

[info@DRRR.de](mailto:info@DRRR.de)

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**For proficiency testing schemes labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG) in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

- Your registration is an one-time order. It is only valid for one year. Cancellation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.
- This registration is permanent-registration and valid until my cancellation
  - An offer with the total costs is needed
  - A Purchase order from the purchasing department will follow

Order by e-mail: [info@DRRR.de](mailto:info@DRRR.de)

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

<b>DRRR-customer number</b>
<b>company</b>
<b>additional line</b>
<b>contact person</b>
<b>street</b>
<b>post code / city</b>
<b>country</b>
<b>email</b>
<b>VAT-ID (EU)</b>

Date:

**Deutsches Referenzbüro**  
 für Ringversuche und Referenzmaterialien GmbH  
 Reinhartser Straße 31 | 87437 Kempten  
 Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99  
[www.DRRR.de](http://www.DRRR.de) | [info@DRRR.de](mailto:info@DRRR.de)

# reference material



## Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

## Description reference material

## Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivative reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

## Profit with our high quality standards for your lab work

## Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

**Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.**

## Availability

For all Proficiency testing schemes in this catalogue reference material is available. You can contact us for price information or for currently available reference materials.

## Availability and order request of reference material

# ODIN - proficiency testing online

## Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

- Fast and easy online registration / online announcement in our online catalogue
- Direct management and booking of the proficiency testing
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates
- Supervisor rights available to overview all PTs of a multi-site company
- Saving of costs through booking and submission of your results via ODIN

## Secure payment with IRIS (Internet Remuneration Information Service).

- Easy and safe payment by credit card
- Overview about all invoices
- Fast and secure online access

*You can also pay your invoice via banktransfer or bank check.*



Book Ringtrials Online

➤ Proficiency testing catalog



Enter Results Online

➤ Booked proficiency testings



Download Reports and  
Certificates

➤ Booked proficiency testings

# Proficiency testing organisation

- A precise planning and organisation of each proficiency testing round
- 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

• According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

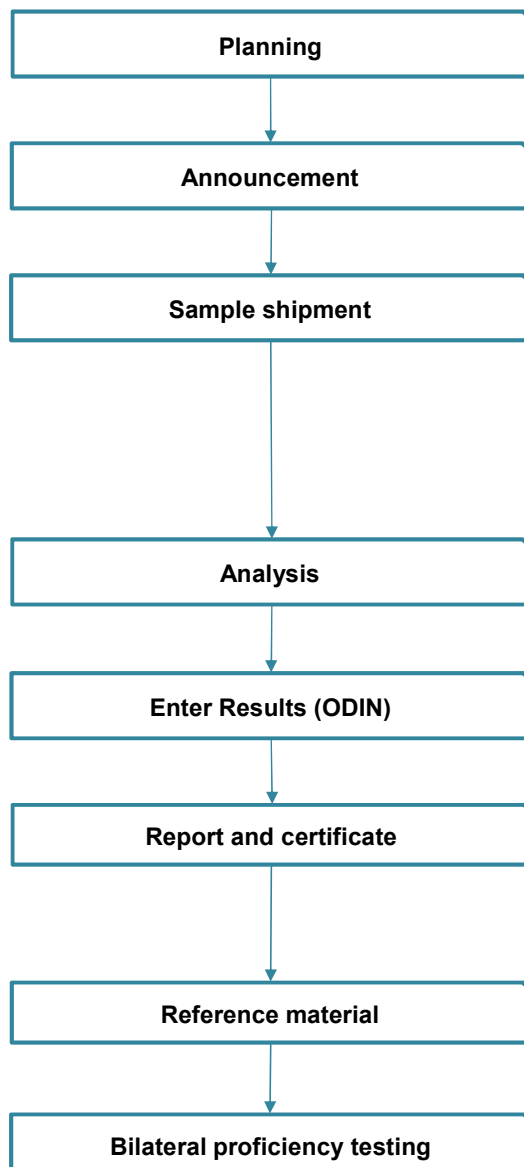
- After receiving the samples you will have a period of 4 weeks for analysing

• Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

• At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

- After the proficiency testing we can offer you reference materials

• Possibility to perform a bilateral proficiency testing (bPT)



# Benefits of proficiency testing

## Why take part in proficiency testing?

- Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers
- Participants can compare, assure and improve their own performance and quality against other laboratories worldwide
- Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories
- Saving on the costs of testing
- Unquestionable lab performance towards customers, authorities and certification authorities
- Saving on the costs of lab development and maintenance
- Saving on the costs of lab development and maintenance
- Saving on production costs by avoiding waste of raw material

## Your benefits in DRRR proficiency testing schemes

- Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories
- Saving the costs, because you have the opportunity to analyze more samples and more parameters in one proficiency testing
- External demonstration of your performance with the results of the proficiency testing
- Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence
- Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



Image source:  
iStock.com/3dts

## We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogenous and stable sample material

## Laboratory performance:

by calculation of the following parameters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

## Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics (Hampel estimator, Q-method)
- Robust statistics (Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the  $\chi^2$ -fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



## z'-score > 2: What to do?

### You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.

These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

### Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually\*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.

(\* normally not longer than 1 - 2 weeks)

The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

### The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.

You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

### Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager). Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

**On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.**

**Please do not hesitate to contact us.**

### IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarities for the IR calibration of selected food will be discussed. The specific peculiarities of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

**The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical exercise calibration data sets will be testes for suitability and critical data sets will be identified.**

### Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

**The sensory measurement uncertainty of each participant will be determined at a practical example.**

### User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

**A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.**

### Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

**The seminar is complemented by practical exercises with the notebook.**

### Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test,  $q_{i^2}$ -adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

**The seminar is complemented by practical exercises with the notebook.**

## Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

**You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.**

## Inhouse-Training

We consider lectures, training and seminars as an important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

**For special requirements we also offer customised training programmes.**

**For questions about contents and conditions do not hesitate to contact us.**

## Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.

Terms of payment: 8 days net, without deduction

Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:

Raiffeisenbank in Allgäuer Land / bank code 733 692 64

Account 102350 / IBAN DE 94733692640000102350

BIC code: GENO DEF1DTA

Sales tax ID no. DE254613132

tax number 127/124/32207

## Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked "frozen" are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

## Terms of delivery (risk group 1, 2 and 3)

Proficiency tests or reference materials marked with "Risk Group 1" are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with "risk group 2, or risk group 3\*\*\*", we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

© DRRR Stand: 29.10.2024 (changes reserved)

**The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.**

## § 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.

Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.

If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations.

The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

## § 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.

The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.

The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.

A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

<b>Cancellation notification period:</b>	Permanent registration (D)
	single (one-time) registration €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

## § 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

## § 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments. Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).

The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.

No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order. Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.

The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.

The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.

The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.

If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.

The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.

The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.

All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.

In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.

All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.

The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.

For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

## § 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.

Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.

All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded.

Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

## § 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.

The goods remain the property of DRRR until they have been paid for in full by the customer.

The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.

Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.

The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction).

Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.

Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

## § 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.

The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.

The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.

If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

## § 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.

The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.

The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

## § 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:

The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.

Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.

Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.

The warranty is limited to the stated expiration date of the reference materials.

This applies to: ieLab, TGZ AQS Baden-Württemberg

# Environmental analytics

## product catalogue 2025



chemical-physical

immunological, molecular  
biological & microbiological

Bildquelle:  
[istock.com/bluejayphoto/469084772](https://www.istock.com/bluejayphoto/469084772)

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## Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)

### Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 500 PT's per year

### Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Accredited PT-provider

Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).



### Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

### Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

## Features

The inspectors of the DRRR-team are represent in different national and international committees and working groups. Thus we ensure that the DRRR quality assurance systems are available for new and up-to-date questions in all cases, if the laboratories start to establish the routine method. Due to the intensive professional exchange in the committees, it is ensured that the proficiency testing design is conformed to the new developments and the laboratories have the highest possible benefits in a participation in the proficiency testing.

**National and international committees and working groups**

## Testing with matrix reference

Whenever possible, real matrices e.g. films, textiles, cardboard and cosmetics are used. This ensures that our proficiency testing schemes have an actual matrix reference and the sample preparation is part of the proficiency testing.

**Matrix reference**

## Statistical evaluation

Take advantage of our statistical evaluation system. The evaluation of the proficiency testing is based on the highest scientific and statistical level. Therefore the participating laboratories have a very precise feedback on their actual performance.

**Evaluation**

## Laboratory Measurement

By using our market-leading statistical evaluation, additional information such as laboratory uncertainty and various scattering of each laboraotires can be presented.

**Market-leading statistical evaluation**

# Individual Proficiency testing



In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

## Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

**Benefit from our high quality standards in all important fields of testing.**

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

**Get in touch with us.**

**We look forward to working with you!**

# Proficiency testing - chemical-physical

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	Period	To view pricing information:
<b>Soil - NEW!</b>				<a href="#">Login or register</a>
2011277	<b>Elution of solids - percolation method (DIN 19528)</b>	<input type="checkbox"/> chromium [µg/l], molybdenum [µg/l], Vanadium [µg/l], sulphate [mg/l], PAH16 [µg/l] (all quantitative)	Oct-25	
2011278	<b>Hydrocarbons in soil (ISO 16703)</b>	<input type="checkbox"/> total petroleum hydrocarbons (TPH) from C <sub>10</sub> to C <sub>40</sub> [mg/kg] (all quantitative)	Dec-25	
<b>Soil</b>				
2011127	<b>PFAS in soil</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [µg/kg dry matter], total perfluorooctanoic acid (CAS 335-67-1) [µg/kg dry matter], total perfluorononanoic acid (CAS 375-95-1) [µg/kg dry matter], total perfluorohexane sulfonic acid (CAS 355-46-4) [µg/kg dry matter] (all quantitative)	Jun-25	
<b>Drinking water</b>				
2011123	<b>PFAS in drinking water</b>	<input type="checkbox"/> total perfluorooctanesulfonic acid (CAS 1763-23-1) [ng/l], total perfluorooctanoic acid (CAS 335-67-1) [ng/l], total perfluorononanoic acid (CAS 375-95-1) [ng/l], total perfluorohexane sulfonic acid (CAS 355-46-4) [ng/l] (all quantitative)	Sep-25	
2010395	<b>Microplastic – particle number</b>	<input type="checkbox"/> particle number [particle number / g] (all quantitative)	Dec-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

[\*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our [online portal \(ODIN\)](#).

Art. no.	Proficiency testing type <sup>[A]</sup>	Parameters [*]	risk group	Period	To view pricing information:
<b>Drinking water</b>					<a href="#">Login or register</a>
2010660	<b>Ps. Aeruginosa drinking water</b>	<input type="checkbox"/> Ps.aeruginosa [cfu/100ml] (all quantitative)	<b>risk group 2</b>	Jul-25	
2010658	<b>Enterococcus drinking water</b>	<input type="checkbox"/> Enterococcus [cfu/100ml] (all quantitative)	<b>risk group 1-2</b>	Apr-25	
2010656	<b>Aerobic total count drinking water</b>	<input type="checkbox"/> aerobic total count 36°C [KbE/ml], aerobic total count 22°C [KbE/ml] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010654	<b>E.coli, Coliforme bacteria drinking water</b>	<input type="checkbox"/> E.coli [cfu/100ml], Coliforms [cfu/100ml] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010114	<b>Legionella spp. drinking water</b>	<input type="checkbox"/> Legionella spp. plating (original sample) [cfu/100ml], Legionella spp. membrane filtration (with acid treatment) [cfu/100ml] (all quantitative)	<b>risk group 2</b>	Sep-25	
<b>Surface- and waste water (bath water)</b>					
2010670	<b>E.coli, Coliforme bacteria surface- and waste water</b>	<input type="checkbox"/> E.coli [cfu/100ml], Coliforms [cfu/100ml] (all quantitative)	<b>risk group 1</b>	Apr-25	
2010672	<b>Enterococcus surface- and waste water (bath water)</b>	<input type="checkbox"/> Enterococcus [cfu/100ml] (all quantitative)	<b>risk group 1-2</b>	Apr-25	
<b>Recooling water</b>					
2010958	<b>Legionella recooling water</b>	<input type="checkbox"/> Legionella spp. membrane filtration (after heat treatment) [cfu/100ml], Legionella spp. membrane filtration (with acid treatment) [cfu/100ml], Legionella spp. plating (original sample) [cfu/100ml], Legionella spp. plating (after heat treatment) [cfu/100ml], Legionella spp. plating (with acid treatment) [cfu/100ml] (all quantitative)	<b>risk group 2</b>	Sep-25	
2010960	<b>Pseudomonas aeruginosa recooling water</b>	<input type="checkbox"/> Ps.aeruginosa [cfu/100ml] (all quantitative)	<b>risk group 2</b>	Jul-25	
2010962	<b>Total count recooling water</b>	<input type="checkbox"/> aerobic total count 36°C [cfu/ml], aerobic total count 22°C [cfu/ml] (all quantitative)	<b>risk group 2</b>	Jul-25	
<b>Indoor air - NEW!</b>					
2011301	<b>Identification moulds in indoor air</b>	<input type="checkbox"/> identification of moulds (all qualitative)	<b>risk group 1</b>	Jul-25	
<b>Indoor air</b>					
2010954	<b>Enumeration moulds indoor air</b>	<input type="checkbox"/> moulds [cfu/filter] (all quantitative)	<b>risk group 1</b>	Jul-25	
<b>Biodegradation</b>					
2011136	<b>CO2 evolution test (ISO 9439, OECD 301B)</b>	<input type="checkbox"/> CO2 [mg] (all quantitative)		Sep-25	
2011137	<b>Zahn-Wellens, EMPA test (ISO 9888, OECD 302B)</b>	<input type="checkbox"/> Final degree of degradation [%], Biodegradation t = 3 h [%], Biodegradation t = 1 d [%], Biodegradation t = 3 d [%], Biodegradation t = 7 d [%], Biodegradation t = 10 d [%], Biodegradation t = 14 d [%], Biodegradation t = 17 d [%], Biodegradation t = 23 d [%], Biodegradation t = 28 d [%] (all quantitative)		Sep-25	
2011138	<b>Plastic materials - aerobic biodegradability (ISO 14855-2, ASTM D5338-15)</b>	<input type="checkbox"/> Biodegradation via CO2 [%] (all quantitative)		Oct-25	
2011139	<b>Plastic materials - anaerobic biodegradability (ASTM D5511)</b>	<input type="checkbox"/> Biodegradation via CO2 and CH4 development [%] (all quantitative)		Oct-25	

[A] = For accredited and non-accredited status please see our [Catalogue/ Shop \(ODIN\)](#)

[\*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our [online portal \(ODIN\)](#).

# registration form proficiency testing



Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**For questions and suggestions do not hesitate to contact the DRRR-team!**

+49(0)831/960 878-0

[info@DRRR.de](mailto:info@DRRR.de)

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**For proficiency testing schemes labelled with "risk group 2, or 3\*\*" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

- Your registration is an one-time order. It is only valid for one year. Cancellation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.
- This registration is permanent-registration and valid until my cancellation
  - An offer with the total costs is needed
  - A Purchase order from the purchasing department will follow

Order by e-mail: [info@DRRR.de](mailto:info@DRRR.de)

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

<b>DRRR-customer number</b>
<b>company</b>
<b>additional line</b>
<b>contact person</b>
<b>street</b>
<b>post code / city</b>
<b>country</b>
<b>email</b>
<b>VAT-ID (EU)</b>

Date:

**Deutsches Referenzbüro**  
 für Ringversuche und Referenzmaterialien GmbH  
 Reinhartser Straße 31 | 87437 Kempten  
 Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99  
[www.DRRR.de](http://www.DRRR.de) | [info@DRRR.de](mailto:info@DRRR.de)

# reference material

## Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

## Description reference material

## Benefit of using certified reference materials

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivative reference materials. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials. The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

## Profit with our high quality standards for your lab work

## Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

**Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference materials.**

## Availability

For all Proficiency testing schemes in this catalogue reference material is available. You can contact us for price information or for currently available reference materials.

## Availability and order request of reference material

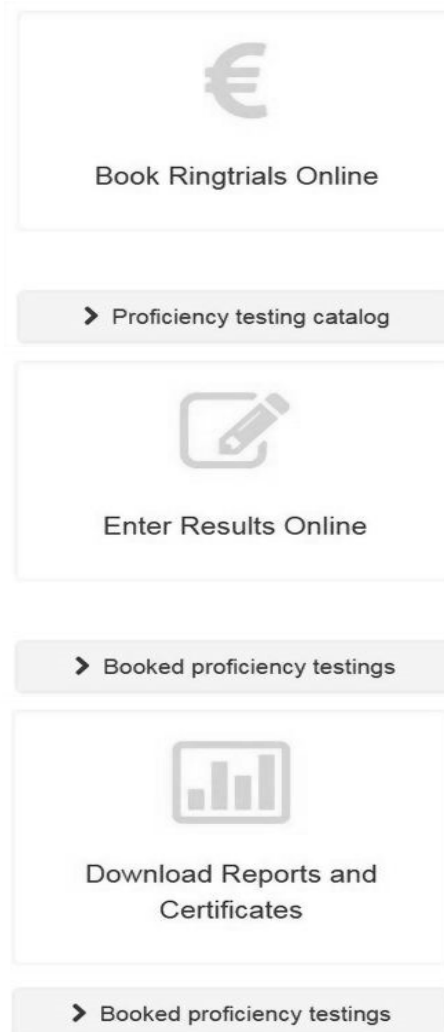
## Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

- Fast and easy online registration / online announcement in our online catalogue
- Direct management and booking of the proficiency testing
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates
- Supervisor rights available to overview all PTs of a multi-site company
- Saving of costs through booking and submission of your results via ODIN

## Secure payment with IRIS (Internet Remuneration Information Service).


- Easy and safe payment by credit card
- Overview about all invoices
- Fast and secure online access

*You can also pay your invoice via banktransfer or bank check.*




€  
Book Ringtrials Online

> Proficiency testing catalog

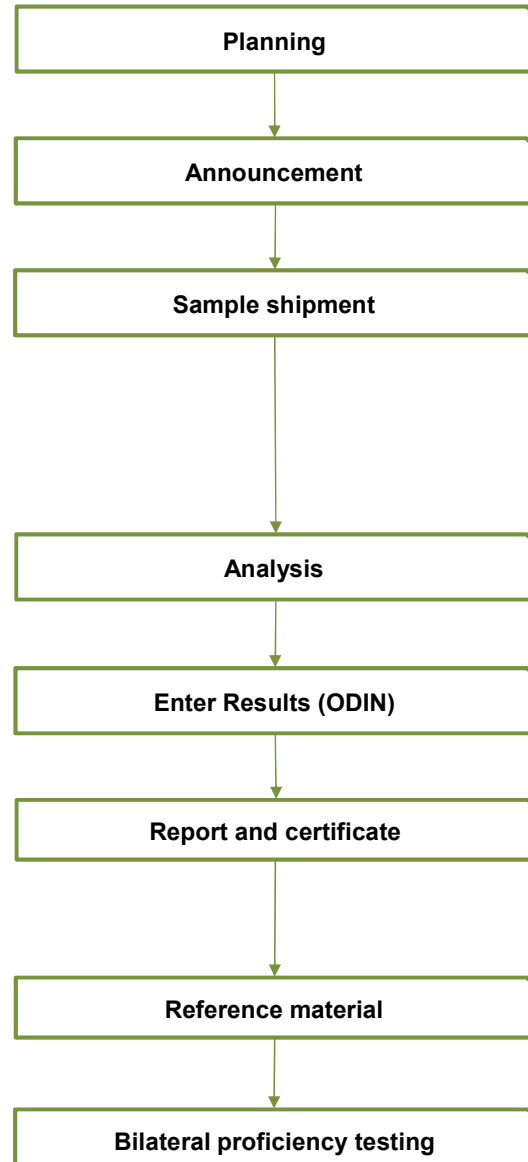
  
Enter Results Online

> Booked proficiency testings

  
Download Reports and  
Certificates

> Booked proficiency testings

- A precise planning and organisation of each proficiency testing round
- 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details
- According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.  
  
We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.
- After receiving the samples you will have a period of 4 weeks for analysing
- Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN
- At the latest 3 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance
- After the proficiency testing we can offer you reference materials
- Possibility to perform a bilateral proficiency testing (bPT)



# Benefits of proficiency testing

## Why take part in proficiency testing?

- Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers
- Participants can compare, assure and improve their own performance and quality against other laboratories worldwide
- Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories
- Saving on the costs of testing
- Unquestionable lab performance towards customers, authorities and certification authorities
- Saving on the costs of lab development and maintenance
- Saving on the costs of lab development and maintenance
- Saving on production costs by avoiding waste of raw material

## Your benefits in DRRR proficiency testing schemes

- Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories
- Saving the costs, because you have the opportunity to analyze more samples and more parameters in one proficiency testing
- External demonstration of your performance with the results of the proficiency testing
- Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence
- Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



Image source:  
iStock.com/3dts

## We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogenous and stable sample material

## Laboratory performance:

by calculation of the following parameters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

## Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics (Hampel estimator, Q-method)
- Robust statistics (Median, MAD/nIQR)
- Expert laboratory (expert decision)

Selection of statistical method with the  $\chi^2$ -fit test

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



## z'-score > 2: What to do?

### You are not satisfied with your laboratory performance: What can you do?

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.

These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

### Your terms and conditions:

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually\*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.

(\* normally not longer than 1 - 2 weeks)

The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

### The bilateral proficiency testing (bPT)!

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.

You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

### Costs bPT

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager). Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations. As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

**On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.**

**Please do not hesitate to contact us.**

### IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarities for the IR calibration of selected food will be discussed. The specific peculiarities of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

**The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical exercise calibration data sets will be testes for suitability and critical data sets will be identified.**

### Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

**The sensory measurement uncertainty of each participant will be determined at a practical example.**

### User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

**A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.**

### Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

**The seminar is complemented by practical exercises with the notebook.**

### Statistics seminar for advanced users

This seminar presents the Shapiro-Wilk-Test,  $q_{i^2}$ -adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

**The seminar is complemented by practical exercises with the notebook.**

## Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

**You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.**

## Inhouse-Training

We consider lectures, training and seminars as an important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

**For special requirements we also offer customised training programmes.**

**For questions about contents and conditions do not hesitate to contact us.**

# Sales terms and delivery conditions

## Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.

Terms of payment: 8 days net, without deduction

Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:

Raiffeisenbank in Allgäuer Land / bank code 733 692 64

Account 102350 / IBAN DE 94733692640000102350

BIC code: GENO DEF1DTA

Sales tax ID no. DE254613132

tax number 127/124/32207

## Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked "frozen" are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

## Terms of delivery (risk group 1, 2 and 3)

Proficiency tests or reference materials marked with "Risk Group 1" are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with "risk group 2, or risk group 3\*\*\*", we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

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# General terms and conditions

**The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.**

## § 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.

Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.

If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations.

The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

## § 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.

The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.

The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.

A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

<b>Cancellation notification period:</b>	Permanent registration (D)
	single (one-time) registration €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
sample shipment – deadline of the results	complete price of the proficiency testing and any further incurred costs (D & E)

## § 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

## § 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments. Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).

The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.

No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order. Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.

The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.

The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.

The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.

If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.

The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.

The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.

All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.

In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.

All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.

The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.

For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

## § 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.

Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.

All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded.

Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

# General terms and conditions



## § 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.

The goods remain the property of DRRR until they have been paid for in full by the customer.

The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.

Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.

The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction).

Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.

Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

## § 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.

The DRRR and its employees may not unauthorizably disclose or exploit business and operating relationships that come to their knowledge in the course of their work.

The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.

If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

## § 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.

The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.

The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

## § 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:

The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.

Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.

Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.

The warranty is limited to the stated expiration date of the reference materials.

This applies to: ieLab, TGZ AQS Baden-Württemberg