

# Food and Feed product catalogue 2023 / 2024



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chemical-physical

organoleptic

molecular biological-  
immunological

safety parameters and  
adulterants

## In the fields:

- Milk products / dairy products
- Fruit and vegetable products / egg products
- Beverages
- Meat and fish
- Cereal and cereal products
- Infant formula

other food stuff such as

- Chocolate
- Honey
- Edible fat
- Mustard
- Animal feed
- GMO
- Declaration nutritional values

### 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



**A brand of DRRR GmbH and 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**

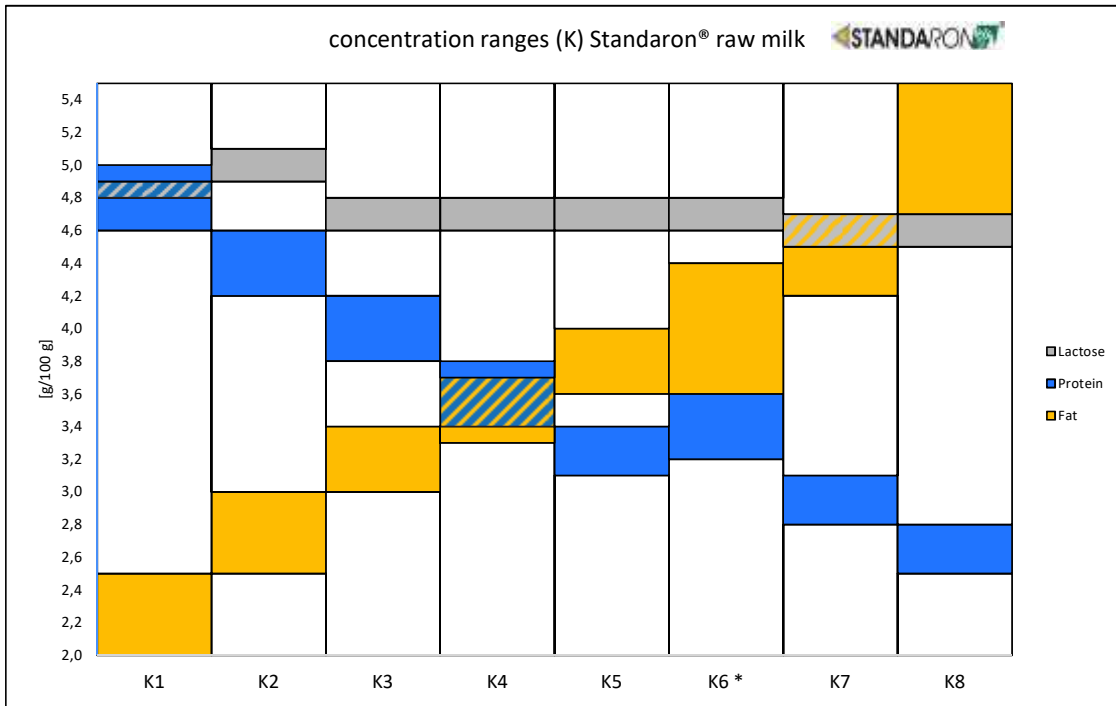
If you need any advice to assure your calibration do not hesitate to contact us.

**Application of the materials**

Please use the order from on page 65.

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 %					

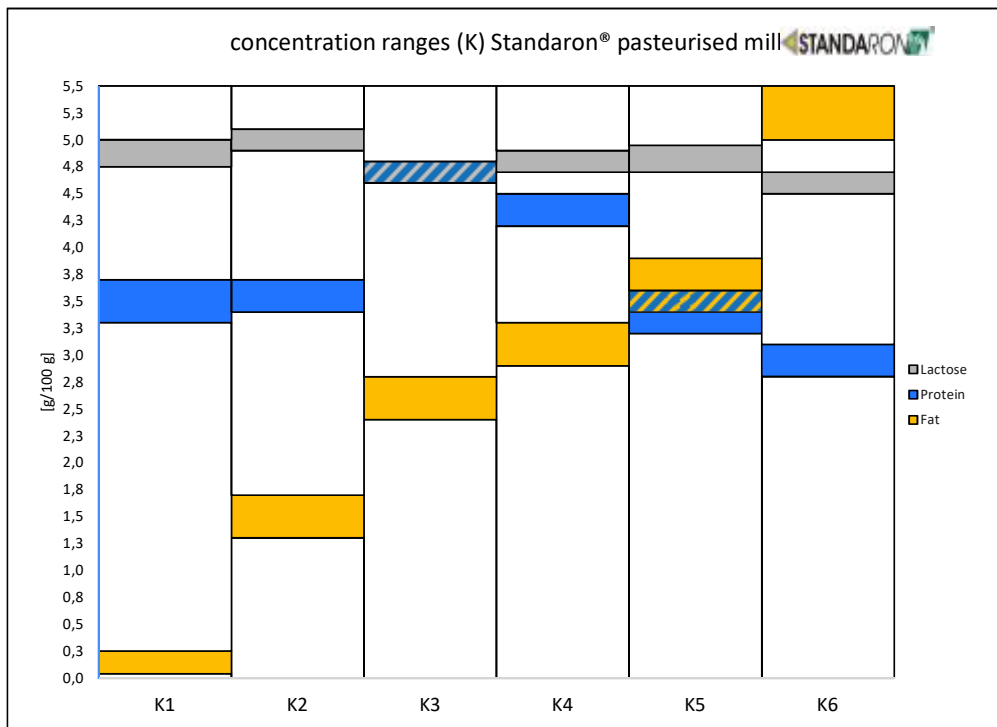
\* unmodified raw milk, higher variances possible



# STANDARON® - overview pasteurized milk

Please use the order from on page 65.

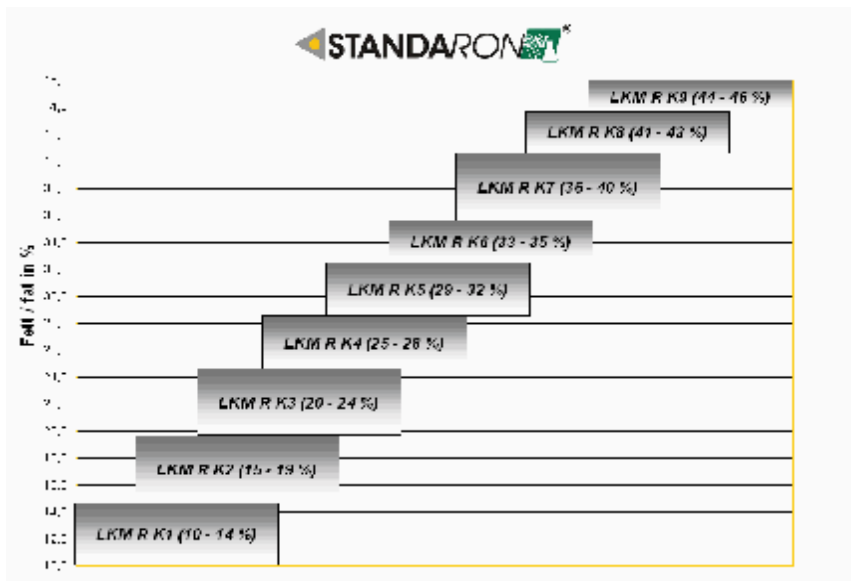
LKM-type	Art. No.	fat	protein	lactose mono-hydrate	dry matter	freezing point	packaging unit	prices
		<i>Röse-Gottlieb</i>	<i>Kjeldahl</i>	<i>enzym.</i>	102 °C	<i>cryos-copy</i>		
		g/100g	g/100g	g/100g	g/100g	°C		
LKM PAM K1	1141001	0,04 - 0,25 %	3,3 - 3,7 %	4,75 - 5,0 %	available reference material and the corresponding reference values are available on request	50 ml	18 €	
LKM PAM K2	1141002	1,3 - 1,7 %	3,4 - 3,7 %	4,9 - 5,1 %				
LKM PAM K3	1141003	2,4 - 2,8 %	4,6 - 4,8 %	4,6 - 4,8 %				
LKM PAM K4	1141004	2,9 - 3,3 %	4,2 - 4,5 %	4,7 - 4,9 %				
LKM PAM K5	1141005	3,4 - 3,9 %	3,2 - 3,6 %	4,7 - 4,95 %				
LKM PAM K6	1141006	5,0 - 5,5 %	2,8 - 3,1 %	4,5 - 4,7 %				



# STANDARON® - overview raw cream

Please use the order from on page 65.

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 %			24 €	
LKM R K9	1141019	44 - 46 %			25 €	



Please use the order form on page 65.

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>	<i>102 °C</i>	<i>cryos-copy</i>		
		g/100g	g/100g	g/100g	g/100g	°C		
sweet whey	1141031	<b>available reference material and the corresponding reference values are available on request</b>					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

Please use the order form on page 65.

## milk and cream

Art. No.	material description	parameter *	additional information	packaging unit	prices
1101001	UHT milk	fat, dry matter, protein, lactose, freezing point, density, lactulose, water activity	UHT skimmed milk 1,5 % fat 3,5 % fat	2x50 ml	32 €
1101002	UHT milk (lactose free)	lactose (< 0.1 %)	1,5 % fat 3,5 % fat	1 l	32 €
1101003	raw milk	fat, dry matter, protein, lactose, freezing point, urea, pH value, casein	-	50 ml	20 €
1101004	goat's milk	fat, protein, freezing point	-	on request	32 €
1101005	raw cream	fat, protein, dry matter	-	50 ml	22 €
1101007	evapored milk	fat, dry matter, protein, ash, phosphorus	4 % fat 8 % fat	170 g	32 €
1101027	butter milk	phosphatides, fat, dry matter, ash, pH value, acidity acc. Soxhlet-Henkel, density in heat serum	-	500 ml	32 €
1121064	dairy drinks	fat, dry matter, protein, sucrose, glucose, lactose, fructose, total sugar (sum of glucose, fructose, sucrose)	-	50 ml	32 €
1101025	residues in milk	chloramphenicol, aldrin, dieldrin, PCB 101, trichlormethane, aflatoxin M1, streptomycine, tetracycline	-	230 ml	67 €
1101029	Inhibitors in milk	quant. determination of one antibiotic each from the substance groups sulfonamides, penicillins, cephalosporins, quinolones.	-	on request	on request

\* in individual cases it can happen that there is no reference value available for a listed parameter



Please use the order from on page 65.

## cheese

Art. No.	material description	parameter *	additional information	packaging unit	prices
1111001	processed cheese	fat, dry matter, protein, lactose, sodium chloride, pH value, nitrate, citric acid, phosphorus, ash, total lactic acid	11 - 20 % fat 21 - 30 % fat	100 g	44 €
1111012	processed cheese	natamycin, aflatoxin M1	-	50 g	116 €
1111002	fresh cheese	fat, dry matter, protein, total lactic acid	6 - 10 % fat 21 - 25 % fat	175 g	34 €
1111003	curd	fat, dry matter, protein, total lactic acid	-	250 g	30 €
1111004	semi hard cheese	fat, dry matter, protein, sodium chloride	20 - 25 % fat 26 - 29 % fat 30 - 35 % fat	100 g	35 €
1111005	hard cheese	fat, dry matter, protein, sodium chloride	20 - 25 % fat 26 - 29 % fat 30 - 35 % fat	100 g	34 €
1111006	soft cheese	fat, dry matter, protein, sodium chloride, pH value	20 - 25 % fat	125 g	30 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

### other milk products

Art. No.	material description	parameter *	additional information	packaging unit	prices
1111007	butter type 1	soldis non-fat, water content, pH value, cholesterol, fat, sodium chloride	sweet cream butter mild soured butter salted butter	250 g	37 €
1111008	butter type 2	fatty acid composition C4-C20	-	250 g	68 €
1111009	yoghurt	fat, dry matter, protein, total lactic acid, pH-value	-	500 g	34 €
1101008	whey	dry matter, protein, NPN, lactose, ash, phosphorus, potassium, calcium	sweet whey sour whey	50 ml	28 €
1111010	pudding/dessert	fat, dry matter, protein, lactose, pH-value	-	250 g	37 €
1111011	AMF - anhydrous milk fat	alkalinity, free fatty acids, water content, peroxide value, carotene, butyric acid methyl ester	-	200 ml	32 €
1121001	ice-cream	quantitative parameters: fat, milkfat, colouring agent E 124 (cochenille red A), vanillin, vanillic acid, p-hydroxybenzaldehyde, p-hydroxybenzoic acid, lactose qualitative parameters: colouring agent E 100 (curcumin), foreign fat, colouring agent $\beta$ -carotene (E 160)	-	100 g	37 €
1101006	sour cream - crème fraîche	fat, dry matter, protein, pH value	-	200 g	32 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## milk powder

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121002	milk powder type 1	fat, dry matter, protein, lactose, ash, free fat, nitrate, titratable acidity	skimmed milk powder whole milk powder	app. 80 - 110 g	40 €
1121063	milk powder type 2	bulk density after 100 tappings	-	> 110 g	40 €
1121003	skimmed milk powder	WPNI (whey-protein-nitrogen-index)	-	sample set 3 x 20 g	40 €
1121004	milk powder (lactose reduced)	lactose, dry matter	-	50 g	40 €
1121005	milk powder nitrate - nitrite	nitrate, nitrite	-	20 - 30 g	40 €
1121006	milk powder vitamin	vitamin D or vitamin A & C	-	20 - 30 g	40 €
1121007	whey powder	fat, dry matter, protein, lactose, ash, pH value, titratable acidity	sweet whey powder sour whey powder	app. 80 - 110 g	40 €
1121008	casein	fat, water content, protein, lactose, ash, pH value	-	app. 110 g	40 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## fruit and vegetables products

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121009	sugar-mix	glucose, fructose, sucrose, maltose, starch, aspartame, acesulfame K, sorbate, saccharin, total sugar (sum of glucose, fructose, sucrose)	several materials available	100 g	67 €
1121010	fruit preparation	brix value, pH value, total acid, citric acid, L-malic acid, ash, phosphorous, potassium	several materials available	100 g	67 €
1121011	sauerkraut	ascorbic acid, titratable acid, total acid, volatile acid, lactic acid, pH value, sodium chloride, non volatile acid	-	on request	67 €
1121012	dried fruits	fat, water content, SO <sub>2</sub> (sulphur dioxide)	-	100 g	67 €
1121013	dry potato product	water, fat, saturated fatty acids, raw protein, ash, total carbohydrates, starch, sucrose, fibre, sodium	-	250 g	67 €
1121014	tomat ketchup type 1	pH-value, titratable acid, citric acid, sodium chloride, glucose, fructose, soluble dry matter, dry matter, sorbic acid, benzoic acid, sucrose (anhydrous), total sugar (sum of glucose, fructose, sucrose)	-	200 g	67 €
1121099	tomat ketchup type 2	lycopene	-	200 g	67 €
1121065	hot sauce	Capsaicin	-	50 g	67 €
1121091	legumes	fat, water content, fibre, nitrogen content, crude protein content	-	on request	67 €
1121135	Solvent residues in food	At least 3 different solvents quantitatively, e.g. benzene, toluene, xylene	-	on request	on request

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## alcoholic beverages

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121024	fruit spirit	relative density 20 °C / 20 °C, alcohol, ethyl carbamate, ferment accompanying substance	-	on request	67 €
1121026	beer	apparent extract, extract, alcohol content in weight per cent and volume per cent, wort, density, bitterness units, pH value	-	200 ml	67 €
1121098	carbonated soft drinks	carbonation (CO <sub>2</sub> content), actual alcohol strength, benzoic acid, sorbic acid, phosphoric acid as PO <sub>4</sub>	different varieties available (non-alcoholic and alcoholic)	300 - 375 ml	67 €
1121128	carbonated soft drinks - spirits	quinine (CAS No 130-95-0)	different varieties available (non-alcoholic and alcoholic)	on request	67 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

## non-alcoholic beverages

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121015	coffee	water, ash, pH-value, acidity, water soluble extract, caffeine, acrylamide	-	150 g	67 €
1121129	green coffee	loss in mass at 105 °C acc. to ISO 6673	-	on request	55 €
1121016	tea	dry matter, ash, water soluble ash, water soluble extract, caffeine, theobromine, theophylline, acid-insoluble ash	-	120 g	67 €
1121083	pyrrolizidine alkaloids in tea	quant. determination of three distinct pyrrolizidine alkaloids, e.g. lycopsamine, echimidine, retrorsine, senecionine, seneciphylline, senkirkine, heliotrine, monocrotaline or lasiocarpine	-	2 x 1 g	135 €
1121017	energiedrink	pH-value, taurine, caffeine, inosit, sucrose (anhydrous), glucose (anhydrous), fructose (anhydrous), total sugar (sum of glucose, fructose, sucrose), total acid (pH 8.1) calculated as tartaric acid, relative density [20/20]	-	500 ml	67 €
1121018	vitamin solution	thiamine (vitamin B1), riboflavine (vitamin B2), pyridoxine (vitamin B6), cobalamin (vitamin B12), L-ascorbic acid (vitamin C), $\alpha$ -tocopherol (vitamin E), folic acid (vitamin B11), pantothenic acid (vitamin B5), niacin (vitamin B3)	-	4 g	67 €
1121019	orange juice type 1	total carotenoid, fraction I: carotenoid, fraction II: cryptoxanthinester, fraction III: xanthophyllester	-	100 g	67 €
1121021	carrot juice	relative density 20 °C / 20 °C, pH-value, titratable acid, sucrose, fructose, glucose, nitrate, $\beta$ -carotene, $\alpha$ -carotene, total carotene, total sugar (sum of glucose, fructose, sucrose)	-	300 ml	67 €
1121058	fruit juice concentrate type 1	brix value, ph value, titratable acidity, citric acid, D-isocitric-acid, L-malic acid, ascorbic acid, lactic acid, citric acid - isocitric acid ration, hesperidin	-	100 g	67 €
1121059	fruit juice concentrate type 2	brix value, titratable acidity, glucose, fructose, sucrose, total sugar (sum of glucose, fructose, sucrose), sugar free extract, glucose-fructose ration, % sucrose of sugar	-	100 g	67 €
1121062	fruit juice concentrate type 3	brix value, ph value, titratable acidity, ash, potassium, calcium, magnesium, total phosphorus, sodium, nitrate, copper, iron	-	100 g	67 €
1121053	grape juice	sulphur dioxide (SO <sub>2</sub> )	several concentrations of SO <sub>2</sub>	80 ml	67 €
1121054	currant juice	lead, cadmium, arsenic, copper, zinc, iron, tin, mercury, aluminium	-	100 ml	67 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## non-alcoholic beverages

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121055	tomato juice	ergosterol	-	50 ml	67 €
1121070	orange juice	Carbendazim	-	on request	67 €
1121092	plant drink (milk alternative)	fat, dry matter, protein, freezing point, density	-	on request	67 €
1121114	trace elements in mineral water	uranium, vanadium, boron	-	on request	67 €
1121115	sugar substitutes in food	isomalt, lactite, maltitol, mannitol, sorbitol, xylitol	-	on request	67 €
1121125	Quinolizidine alkaloids in Lupins Drink	At least 3 different quinolizidine alkaloids quantitatively, e.g. lupanine, lupinin, spartein	-	on request	100 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

## egg products

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121028	egg products	total lipids, dry matter, protein, pH-value, cholesterol, $\alpha$ -linolenic acid, eicosapentaenoic acid, docosahexaenoic acid, salt content (sodium chloride)	-	100 g	67 €
1121029	egg pasta	water, fat, raw protein, ash, chloride, cholesterol, total sterine, egg content, fibre	-	300 g	67 €
1121030	mayonnaise	total acid, dry matter, fat, phosphatid-P205, cholesterol, egg yolk content, sorbic acid, benzoic acid, salt content (sodium chloride)	-	150 g	67 €
1121027	residues in liquid egg	fat, nicotine, dioxins, dioxin-like PCBs	-	100 g	100 €
1121066	antibiotics in liquid egg	quant. determination of one antibiotic each from the substance groups nitrofurans, sulfonamides, tetracycline, chloramphenicol	-	100 g	100 €
1121088	egg powder	fat, alpha-amylase, ash, pH value, water content, salt content, lactic acid, hydroxybutyric acid	-	100 g	67 €
1121126	Hormons in liquid egg	At least one androgen, at least one estrogen and at least one progestin quantitatively	-	on request	100 €

## declaration nutritional values

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121044	declaration nutritional values with 2 different food stuff	energy, protein, carbohydrate, sugar, fat, saturated fatty acids, fibre, sodium	-	125 g	67 €

\* in individual cases it can happen that there is no reference value available for a listed parameter



Please use the order form on page 65.

## meat products

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121031	boiled sausage type 1	fat, water content, ash, protein, collagen, sodium chloride, nitrate, diphosphorus pentoxide (P2O5), calcium, nitrite, aw-value, starch	-	200 g	67 €
1121032	boiled sausage type 2	non-protein nitrogen (NPN), collagen degradation products, L-glutamic acid, citric acid, sodium acetate, L-lactat, sodium nitrate, sodium nitrite, ascorbic acid, pH value	-	250 g	67 €
1121033	raw sausage type 1	aw-value, pH-value, D- & L-lactic acid, sodium, nitrate, nitrite, sorbic acid, monounsaturated fatty acids, saturated fatty acids, fat	-	200 g	67 €
1121060	raw sausage type 2	fat, water content, protein, ash, sodium chloride, hydroxyproline, diphosphorus pentoxide (P2O5), sodium, starch, solubilised milk protein	-	200 g	67 €
1121069	vegetarian sausage substitute	fat, protein, dry matter, sodium chloride, ash, fibre	-	150 g	67 €
1121093	Detection of soy protein in meat and meat products	soy protein quantitative	-	on request	112 €
1121136	Allergens in meat products	Various allergens quantitative: egg, peanut, nuts, celery, mustard	-	on request	on request

## fish and seafood

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121034	fish paste type 1	water, fat, raw protein, ash, sodium chloride, arsenic, iodine	-	100 g	67 €
1121035	fish paste type 2	fat, sorbic acid, benzoic acid, saccharin, cyclamate, citric acid	-	100 g	67 €
1121127	Nitrosamines in fish	At least 3 nitrosamines quantitatively, e.g. N-nitrosodimethylamine (NDMA), N-nitrososarcosine (NSAR), N-nitrosohydroxyproline (NHPRO)	-	on request	100 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## cereal products

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121037	pastries (baking mix)	fat, dry matter, protein, ash, milk fat, starch, sucrose	-	200 g	67 €
1121061	pastries (bread)	propionic acid	-	50 g	67 €
1121038	flour	moisture content, raw protein, ash, starch, wet gluten content, falling number	-	300 g	67 €
1121039	gluten	Gluten (prolamin contamination) in flour, e.g. oat flour and corn flour	-	on request	67 €
1121040	butter biscuit	ash, dry matter, raw protein, fat, semimicro butyric acid number, free butyric acid, butyric acid methyl ester, milk fat, starch, cholesterol, sucrose, fibre	-	250 g	67 €
1101012	corn aflatoxin	aflatoxin	1.00 ppb - 30.00 ppb 15.00 ppb - 100.00 ppb	50 g	100 €
1101013	corn DON	DON	0.10 ppm - 1.25 ppm 1.00 ppm - 6.00 ppm	50 g	100 €
1101014	corn fumonisin	fumonisin	0.10 ppm - 1.25 ppm 1.00 ppm - 6.00 ppm	50 g	100 €
1101015	corn ochratoxin	ochratoxin	1.00 ppb - 30.00 ppb 15.00 ppb - 100.00 ppb	50 g	100 €
1101016	corn zearalenone	zearalenone	50.00 ppb - 1500.00 ppb	50 g	100 €
1101017	wheat DON	DON	0.10 ppm - 1.25 ppm 1.00 ppm - 6.00 ppm	50 g	100 €
1101018	wheat ochratoxin	ochratoxin	1.00 ppb - 30.00 ppb 15.00 ppb - 100.00 ppb	50 g	100 €
1101019	barley DON	DON	0.05 ppm - 3.00 ppm	50 g	100 €
1101020	brown rice aflatoxin	aflatoxin	1.00 ppb - 20.00 ppb	50 g	100 €
1101021	biscuits (soy)	soy in biscuits	3.00 ppm - 30.00 ppm	6 g	100 €
1121071	cereal / cereal products	glyphosat	-	on request	on request

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

## cereal products

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121072	rice	arsenic	-	on request	on request
1121116	determination of the sedimentation index - Zeleny test (ISO 5529)	sedimentation index (ml) - (acc. To Zeleny)	-	on request	on request
1121117	determination of alveograph properties of dough - ISO 27971	determination of alveograph properties of dough	-	on request	on request
1121118	determination of water absorption and rheological properties using a farinograph - ISO 5530-1	determination of water absorption and rheological properties using a farinograph	-	on request	on request
1121119	determination of rheological properties using an extensograph - ISO 5530-2	determination of rheological properties using an extensograph	-	on request	on request
1121120	determination of water absorption and rheological properties using a valorigraph - ISO 5530-3	determination of water absorption and rheological properties using a valorigraph	-	on request	on request
1121130	Tropane alkaloids in flour	At least 3 different tropane alkaloids quantitatively, e.g. atropine, scopolamine, hyoscyamine.	-	on request	on request
1121131	Ergot alkaloids in flour	At least 3 different ergot alkaloids quantitatively, e.g., ergotamine, ergometrine, ergosine, ergocristine, ergocryptine, and ergocornine.	-	on request	on request
1121138	amylose in rice	amylose quantitatively	-	on request	on request
1121139	Antioxidants in food	E 320 butylated hydroxyanisole (BHA), E 321 butylated hydroxytoluene (BHT), E 324 ethoxyquin	-	on request	on request

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

## infant formula

Art. No.	material description	parameter *	additional information	packaging unit	prices
1101009	jar food	fat, protein, ash, moisture, vitamin C	-	on request	100 €
1121041	baby porridge powder type 1	water, fat, raw protein, ash, sucrose, glucose, fructose	-	100 g	67 €
1121042	baby porridge powder type 2	sodium, potassium, magnesium, calcium, iron, zinc, iodine	-	100 g	67 €
1121043	baby porridge powder type 3	vitamin B1, vitamin B2, vitamin B6, vitamin B12, vitamin A, vitamin C, vitamin E, folic acid, pantothenic acid, biotin	-	200 g	67 €
1101010	milk powder IMF type 1	fat, protein, ash, moisture, vitamin A (retinol), vitamin C	-	100 g	125 €
1101011	milk powder IMF type 2	sodium, potassium, calcium, magnesium, phosphorus, iron, copper, zinc, manganese	-	on request	125 €
1101026	milk powder IMF allergens	gliadin, soy, casein, lactose, $\beta$ -lactoglobuline	-	on request	100 €
1121140	Bisphenol A in infant food	bisphenol A	-	on request	on request

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

### other food matrices

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121045	protein powder	protein, riboflavine (vitamin B2), pyridoxine (vitamin B6), ascorbic acid (vitamin C)	-	100 g	67 €
1121046	delicatessen salad	benzoic acid, sorbic acid, PHB-ester	-	50 g	67 €
1121048	chocolate	fat, water content, protein, lactose, milk fat, theobromine, sucrose, total alkaloids, caffeine	chocolate bitter-sweet whole milk chocolate	100 g	67 €
1121049	edible fat type 1	distribution of fatty	-	200 ml	67 €
1121068	edible fat type 2	iodine, acid value, peroxide, saponification, tocopherole, free fatty acids, p-anisidine value, refraction index, water content, total sterols	-	200 ml	67 €
1121050	mustard	dry matter, total acid, sodium chloride, allyl mustard oil, SO2 (sulphur dioxide), fat	-	300 g	67 €
1121089	PAHs in animal and vegetable fats and oils	naphthalene, anthracene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(j)fluoranthene, benzo(e)pyrene, benzo(a)pyrene, dibenz(ah)anthracene (at least 5 of the parameters quantitative)	A PAH concentration in the samples of approximately 0,1-5 µg/kg per PAH is to be expected.	50 g	135 €
1121090	Determination of natural thickeners	agar, carrageenan, guar, gum arabic, locust bean gum, sodium alginate and pectin		on request	67 €
1121094	aflatoxins in chocolate	aflatoxin B1, B2, G1, G2, total aflatoxin content		on request	135 €
1121095	pesticides in chocolate	quant. determination of several pesticides from the fields of herbicides, insecticides and fungicides		on request	135 €
1121100	sugar free candies	sucrose, glucose, fructose, water content, total sugar (sum of glucose, fructose, sucrose)	total sugar content < 0.5%, reference method for sugar: enzymatics	on request	67 €
1121104	metals in cocoa and chocolate	cadmium, lead, iron, aluminum, copper, zinc, mercury, nickel and arsenic (min. 5 of the metals contained)	-	on request	100 €
1121105	acrylamide in cocoa and chocolate	acrylamide	-	on request	100 €

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Please use the order form on page 65.

### other food matrices

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121106	cannabis oil	CAS 13956-29-1 Cannabidiol (CBD)	-	on request	100 €
1121107	vegetarian bread spread	fat, protein, dry matter, salt, ashes, pH-value	-	on request	67 €
1121108	metals in hummus	cadmium, nickel	-	on request	67 €
1121109	pyrrolizidine alkaloids in spices	quan. determination of three distinct pyrrolizidine alkaloids, e.g. lycopsamine, echimidine, retrorsine, senecionine, seneciphylline, senkirkine, heliotrine, monocrotaline or lasiocarpine	-	on request	100 €
1121110	nicotine replacement products	Nicotine in nicotine pouches	-	on request	100 €
1121123	Metals in tobacco	cadmium, lead, iron, aluminum, copper, zinc, mercury, nickel and arsenic (min. 5 of the metals contained)	-	on request	100 €
1121124	MCPD and glycidol in edible oil	3-Monochlorpropandiol (3-MCPD), 2-Monochlorpropandiol (2-MCPD), Glycidol	-	on request	100 €
1121132	Cannabinoids in hemp seeds	CAS 13956-29-1 Cannabidiol (CBD), total Delta-9-THC	-	on request	on request
1121134	nutritional components in a complete meal	Moisture, Ash, Fat, Nitrogen, Sodium, Chloride	-	on request	on request
1121133	phthalates in edible oil	CAS 28553-12-0 (DINP), CAS 117-81-7 (DEHP), CAS 117-84-0 (DNOP), CAS 26761-40-0 (DIDP), CAS 85-68-7 (BBP), CAS 84-74-2 (DBP), CAS 84-69-5 (DIBP), CAS 131-18-0 (DPP), CAS 71888-89-6 (DIHP), CAS 117-82-8 (DMEP)	-	on request	on request

### mineral oil in food stuff

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151016	mineral oil in low-fat and starch-rich foodstuff	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	50 g	100 €
1151053	mineral oil in cocoa butter and chocolate	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	50 g	100 €
1151104	mineral oil in cheese and milk powder	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	on request	100 €
1151017	mineral oil in edible fat and edible oil	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	15 g	100 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## honey and beeswax

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121047	honey type 1	diastase activity, proline, HMF, conductivity, pH-value, water, glycerin, ethanol	-	250 g	67 €
1121067	honey type 2	glucose, fructose, maltose, saccharose, turanose, saccharase number, free acids, ash	-	250 g	67 €
1121074	antibiotics in honey	quan. determination of one antibiotic of each of the substance groups sulfonamides and tetracyclines as well as of chloramphenicol and streptomycin	-	125 ml	100 €
1121075	pesticide residues in honey	The following pesticides can be queried: DEET, cymiazole, malathion, chlorpyrifos, chlorfenvinphos, piperonyl butoxide, bromopropylate, bifenthrin, tetradifon, lambda-cyhalothrin, acrinathrin, cis-permethrin, trans-permethrin, coumaphos, boscalid, cypermethrin, total tau-fluvalinate, deltamethrin, flumethrin, M-metalaxyl, carbaryl, propargite, acetamiprid, thiamethoxam, amitraz, carbaryl, imidaclopride, metalaxyl, carbendazim, thiaclopride, 2,4-DMP-formamide, 2,4-DMP-me-formamidine, glyphosate.	-	on request	on request
1121076	pyrrolizidine alkaloids in honey	quan. determination of three distinct pyrrolizidine alkaloids, e.g. lycopsamine, echimidine, retrorsine, senecionine, seneciphylline, senkirkine, heliotrine, monocrotaline or lasiocarpine	-	100 g	100 €
1121077	veterinary drug residues in honey	quan. determination of three distinct veterinary drugs or their components, e.g. thymol, phenol, naphthalene, cymiazol, coumaphos or amitraz	-	on request	on request
1121078	GMOs in honey	qualitative detection of different screening elements, e.g. P-35S, T-NOS and P-FMV	-	100 g	100 €
1121079	relative frequency of pollen in honey	relative frequency of pollen	-	on request	on request
1121080	falsification honey	Identification of rice syrup and sugar beet syrup in honey, qualitative proficiency test	-	on request	on request
1121081	residues in beeswax	quan. determination of three distinct substances out of the fields varroa veterinary drugs and plant protection agents	-	on request	on request
1121082	falsification beeswax	paraffin wax content, stearin content	-	app. 100 g	100 €

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Please use the order form on page 65.

## animal feed

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121111	metals in animal feed	cadmium, lead, iron, aluminum, copper, zinc, mercury, nickel and arsenic (min. 5 of the metals contained)	-	on request	77 €
1121112	ingredients animal feed	moisture content, crude protein content, crude oil, crude ash, crude fiber, sugar, lactose, starch	-	on request	77 €
1121113	animal components in animal feed	qualitative identification of animal components	-	on request	67 €
1121052	animal feed mycotoxins	OTA, DON, aflatoxin	-	on request	100 €
1121097	Fluoride content in animal feed	fluoride content	-	on request	67 €
1121137	phytase in feed	phytase quantitatively	-	on request	on request

\* in individual cases it can happen that there is no reference value available for a listed parameter



Please use the order form on page 65.

## drinking water

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121121	pharmaceutical residues in drinking water	Diclofenac, Ibuprofen	-	on request	67 €
1121122	Microplastic in water	particle number	-	on request	100 €

*\* in individual cases it can happen that there is no reference value available for a listed parameter*

Please use the order form on page 65.

## determination of animal species

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121056	beef, pork, horse	qualitative detection of the animal species beef, pork and horse (participation with protein and DNA based methods possible) and quantitative detection of the relative amount of animal species (only DNA-based methods possible)	-	50 g	112 €
1121057	porcine and beef DNA in gelatine	Qualitative detection of low amounts of porcine ( <i>sus scrofa</i> ) and beef ( <i>bos taurus</i> ) DNA in highly processed food matrix (gelatin) in this proficiency testing also the DNA of sheep, goat and fish can be requested	3 different samples (1 x negative, 2 x positive)	3 x 1 g	112 €
1121057	porcine and beef DNA in gelatine	Qualitative detection of low amounts of porcine ( <i>sus scrofa</i> ) and beef ( <i>bos taurus</i> ) DNA in highly processed food matrix (gelatin) in this proficiency testing also the DNA of sheep, goat and fish can be requested	1 material (positive or negative)	1 g	100 €
1121096	porcine DNA in Candy	Qualitative detection of low amounts of porcine ( <i>sus scrofa</i> ) DNA in candy (gummy candy)	3 different samples	2 g	112 €
1121103	detection of the animal species in milk	animal species qualitative	The animal species can be detected in 3 different milks by isoelectric focusing, ELISA or PCR.	on request	100 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

## GMO

Art. No.	material description	parameter *	additional information	packaging unit	prices
1121073	soy (GMO)	qualitative detection of the screening elements P-35S, T-NOS and P-FMV as well as the quantitative detection of the relative amount of transgene soy (construct or event specific methods possible)	-	10 g	135 €
1121078	GMOs in honey	qualitative detection of different screening elements, e.g. P-35S, T-NOS and P-FMV	-	100 g	100 €
1121084	corn (GMO)	qualitative detection of the screening elements P-35S, T-NOS and pat as well as the quantitative detection of the relative amount of transgene corn (construct or event specific methods possible)	-	on request	135 €
1121085	rice (GMO)	qualitative detection of the screening elements P-35S, T-NOS and bar as well as the quantitative detection of the relative amount of transgene rice (construct or event specific methods possible)	-	on request	135 €
1121086	canola (GMO)	qualitative detection of the screening elements T-NOS, CTP2-CP4EPSPS and P-FMV as well as the quantitative detection of the relative amount of transgene canola (construct or event specific methods possible)	-	on request	135 €
1121087	cotton (GMO)	qualitative detection of the screening elements P-35S, T-NOS and pat as well as the quantitative detection of the relative amount of transgene cotton (construct or event specific methods possible)	-	on request	135 €
1121101	potato (GMO)	qualitative detection of different screening elements, e.g. P-35S, T-NOS and P-FMV as well as the quantitative detection of the relative amount of transgene potato (construct or event specific methods possible)	-	on request	135 €
1121102	sugar beet (GMO)	qualitative detection of different screening elements, e.g. P-35S, T-NOS and P-FMV as well as the quantitative detection of the relative amount of transgene sugar beet (construct or event specific methods possible)	-	on request	135 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 65.

## ranking test

Art. No.	material description	parameter *	additional information	packaging unit	prices
3301001	water with basic taste (ranking test)	4 samples with different concentrations (sufficient for 5 assessors)	bitter, sweet, sour or salty	sample sets 4 x 500 ml	135 €
3301002	beer (ranking test, Diacetyl)	4 samples with different concentrations (sufficient for 5 assessors)	Diacetyl	sample sets 4 x 500 ml	135 €
3301003	yoghurt with basic taste (ranking test)	4 samples with different concentrations (sufficient for 5 assessors)	sweet sour salty	sample sets 4 x 500 ml	135 €
3301004	yoghurt with flavours (ranking test)	4 samples with different concentrations (sufficient for 5 assessors)	strawberry, cherry, vanilla, peach, lemon	sample sets 4 x 500 ml	135 €

## triangle test

Art. No.	material description	parameter *	additional information	packaging unit	prices
3311001	water with basic taste (triangle test)	3 coded samples sets - triads (sufficient for 5 assessors)	bitter, sweet, sour or salty	3 coded sample sets - triads	214 €
3311002	fruit juice (triangle test, flavour taint)	3 coded samples sets - triads (sufficient for 3 assessors)	flavour taint	3 coded sample sets - triads	214 €
3311003	beer (triangle test, Diacetyl)	3 coded samples sets - triads (sufficient for 5 assessors)	Diacetyl	3 coded sample sets - triads	214 €
3311004	yoghurt with basic taste (triangle test)	3 coded samples sets - triads (sufficient for 5 assessors)	sweet sour salty	3 coded sample sets - triads	214 €
3311005	yoghurt with flavours (triangle test)	3 coded samples sets - triads (sufficient for 5 assessors)	strawberry, cherry, vanilla, peach, lemon	3 coded sample sets - triads	214 €
3311007	tuna (triangle test)	3 coded samples sets - triads (sufficient for 5 assessors)	-	sample set 9 x 200g	214 €
3311008	texture test (triangle test)	3 coded samples sets - triads (sufficient for 5 assessors)	-	on request	214 €
3311009	colour check (triangle test)	3 coded samples sets - triads (sufficient for 5 assessors)	-	on request	214 €
3311011	apple juice (triangle test, basic taste)	3 coded samples sets - triads (sufficient for 5 assessors)	-	on request	214 €
3311012	milk (triangle test, flavour taint)	3 coded samples sets - triads (sufficient for 5 assessors)	-	on request	214 €
3311013	coffee infusion (triangle test, flavour taint)	3 coded samples sets - triads (sufficient for 5 assessors)	-	on request	214 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

### threshold value

Art. No.	material description	parameter *	additional information	packaging unit	prices
3321001	drinking water TON acc. to EN 1622	sample set (raw material + instruction) for the threshold odour number determination	characteristic off-flavour in drinking water	sample set for a panel (with 3 assessors)	161 €
3321002	drinking water TFN acc. to EN 1622	sample set (raw material + instruction) for the threshold flavour number determination	characteristic off-flavour in drinking water	sample set for a panel (with 3 assessors)	161 €
3321007	fruit juice (threshold value examination, flavour taint)	sample set (raw material + instruction) for the threshold value determination	off-flavour	sample set for one assessor	97 €

\* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order form on page 65.

	material description	description	additional information	packaging unit	price
	ADR- security certified DRRR- freezing packaging system  RM-ADR VP 1	<b>Our certified packagings fulfill the requirements of ADR especially of the dangerous goods directive GGVSE and GGVSee.</b> <b>These systems are also convenient for the shipping of pathogenic bacteria of risk group 2.</b>	guaranteed temperature assurance: 24 hours	VP 1 app. 310 x 250 x 190 mm	16 €
	ADR- security certified DRRR- freezing packaging system  RM-ADR VP 2	<b>Our certified packagings fulfill the requirements of ADR especially of the dangerous goods directive GGVSE and GGVSee.</b> <b>These systems are also convenient for the shipping of pathogenic bacteria of risk group 2.</b>	guaranteed temperature assurance: 48 hours	VP 2 app. 350 x 350 x 300 mm	26 €