

Fixed Accreditation Scope

The name of the accredited body: **EUROFINS BEL/NOVAMANN s.r.o.**
Komjatická 73, 940 02 Nové Zámky

Testing laboratory Bratislava, Kollárovo nám. 9, 811 07 Bratislava

Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
1	Cosmetic products; detergents; products from paper, pulp and cardboard; pharmaceutical base materials, drugs and auxiliary substances; pharmaceutical products – medicaments and food supplements	pH	potentiometric method	ŠPP No. 001-D, ŠPP No. 001-F SL, ČL, Ph. Eur. as amended, art. 2.2.3	
2	Cosmetic products; detergents	Dry matter	gravimetric method	ŠPP No. 019-D, ŠPP No. 020-D	
3		Non-volatile substance at 105 °C	gravimetric method	ŠPP No. 030-D	
4	Cosmetic products, products from paper, pulp and cardboard	Free formaldehyde	spectrophotometric method	ŠPP No. 047-D (STN EN 120, STN EN 1541 Government Regulation No. 348/2004)	
5	Cosmetic products	Total fluorine	GC-FID	ŠPP No. 055-D (Government Regulation No. 348/2004)	
6	Soaps	Free caustic alkali, Method A (ethanol method)	titrimetric determination	ŠPP No. 010-D (STN ISO 456)	
7	Detergents and cosmetic products	Organic substances soluble in ethanol	extraction and gravimetric method	ŠPP No. 040-D, ŠPP No. 041-D (ČSN 68 1141, ČSN 68 1142)	
8	Soaps	Substances insoluble in ethanol	gravimetric method	ŠPP No. 042-D (ČSN ISO 673)	
9	Detergents	Active oxygen content	titrimetric determination	ŠPP No. 058-D (ČSN 68 1156)	
10	Chemical products; pharmaceutical base materials, drugs and auxiliary substances; pharmaceutical products – medicaments and food supplements	Density or relative density by pycnometer	gravimetric method	ŠPP No. 056-D, ŠPP No. 012-F (SL, ČL, Ph. Eur. as amended, art. 2.2.5)	
11		Dynamic viscosity	physical measurement	ŠPP No. 062-D, ŠPP No. 115-F (SL, ČL, Ph. Eur. as amended, art. 2.2.8, 2.2.10)	
12		Water content by Karl Fischer titration	potentiometric method	ŠPP No. 065-D, ŠPP No. 031-F (SL, ČL, Ph. Eur. as amended, art. 2.5.12)	
13	Pharmaceutical base materials, drugs and auxiliary substances; pharmaceutical products – medicaments and food supplements	Desintegration of tablets	physical measurement	ŠPP No. 007-F SL, ČL, Ph. Eur. as amended, art. 2.9.1	
14		Melting point	physical measurement	ŠPP No. 014-F SL, ČL, Ph. Eur. as amended, art. 2.2.60	
15		Conventional numbers (acid value, hydroxyl value, iodine and peroxide value, saponification value)	titrimetric determination	ŠPP No. 025-F SL, ČL, Ph. Eur. as amended, art. 2.5.1 – 2.5.7	
16		Osmolality	physical measurement	ŠPP No. 033-F SL, ČL, Ph. Eur. as amended, art. 2.2.35	
17		Refraction index	physical measurement	ŠPP No. 034-F SL, ČL, Ph. Eur. as amended, art. 2.2.6	
18		Identity tests by infrared spectrometry	ATR	ŠPP No. 029-F SL, ČL, Ph. Eur. as amended, art. 2.3.1	
19		Limit tests for inorganic impurities	visually	ŠPP No. 021-F SL, ČL, Ph. Eur. as amended, art. 2.4	
20		Loss by drying and by ignition	gravimetric method	ŠPP No. 004-F SL, ČL, Ph. Eur. as amended, art. 2.2.32 a 2.8.9	

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21	Pharmaceutical base materials, drugs and auxiliary substances; pharmaceutical products – medicaments and food supplements; purified water, water for injections and haemodialysis Solutions concentrated, water for diluting	Conductivity	conductometry	ŠPP No. 032-F; ŠPP No. 114-F SL, ČL, Ph. Eur. as amended, art. 2.2.38	
22		Identity tests of ions and groups	colour and precipitation reactions	ŠPP No. 010-F; ŠPP No. 114-F SL, ČL, Ph. Eur. as amended, art. 2.3.1	
23		Residue on evaporation	gravimetric method	SL, ČL, Ph. Eur. as amended ŠPP No. 002-F; ŠPP No. 114-F	
24	Waters, aqueous extracts	Total organic carbon and dissolved organic carbon (TOC a DOC)	NDIR	ŠPP No. 035-F SL, ČL, Ph. Eur.as amended, art. 2.2.44, (STN EN 1484)	
25	Petroleum products and related substances	Density	floating hydrometer method	ŠPP No. 034-E (STN EN ISO 3675)	
26		Contamination in middle distillates	gravimetric method	ŠPP No. 020-E (STN EN 12662)	
27		Flash point by Pensky-Martens closed cup	thermometric method	ŠPP No. 032-E (STN EN ISO 2719)	
28		Flash point according Cleveland	thermometric method	ŠPP No. 021-E (STN EN ISO 2592)	
29		Distillation characteristics	atmospheric distillation	ŠPP No. 031-F (STN EN ISO 3405)	
30		Cold filter plugging point	thermometric method	ŠPP No. 030-E (STN EN 116)	
31		Kinematic viscosity (20-100)°C	viscosimetric method	ŠPP No. 033-E (STN EN ISO 3104 + AC)	
32		Fatty acid methyl esters (FAME)	infrared spectroscopy	ŠPP No. 029-E (STN EN 14078)	
33		Water content by Karl Fischer titration	coulometric Karl Fischer titration method	ŠPP No. 035-E (STN EN ISO 12937)	
34	Reserved				
35	Toys, packaging and hygienic materials, cosmetics, pharmaceutical preparations, consumer goods, root and greens, potatoes, fruit, flour	Phthalate: - dibutylphthalate, - di-(2-ethylhexyl) phthalate, - di-n-octyl phthalate, - buthyl benzyl phthalate, - di-izodecyl phthalate, - di-izononyl phthalate	extraction, GC-MS	ŠPP ORG.M.042 (EPA 8060-61)	from softened PVC
36	Spirits	Phthalic acid esters	extraction, GC-MS	ŠPP ORG.M.018 (EPA 8060-61)	
37	Cosmetic products	Parabens content: -methyl paraben -ethyl paraben -propyl paraben -isopropyl paraben -butyl paraben -isobutyl paraben -benzyl paraben -phenyl paraben -phenoxy ethanol	HPLC/DAD	ŠPP No. 051-D (Government Regulation No. 348/2004)	
38	Wine	-3-metoxi-1,2-propanediol -cyclic diglycerols	GC/MS	ILP-266 (OIV-MA-AS315-15)	

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Testing laboratory Trebišov, Cukrovarská 22, 075 01 Trebišov

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1	Petroleum and related substances	Density by hydrometer	floating hydrometer method	STN EN ISO 3675 (ŠPP 010-T)	
2		Flash point by Pensky-Martens closed cup	thermometric method	STN EN ISO 2719 (ŠPP 001-T)	
3		Distillation characteristics	atmospheric distillation	STN ISO 3405 (ŠPP 011-T)	
4		Cold filter plugging point	thermometric method	STN EN 116 (ŠPP 012-T)	
5		Kinematic viscosity and calculation of dynamic viscosity (20-100°C)	viscosimetric method	STN EN ISO 3104 +AC/O (ŠPP 013-T)	
6	Motor fuels	Fatty acid methyl esters (FAME)	infrared spectroscopy	STN EN 14078 (ŠPP 002-T)	
7	Petroleum products	Sulfur content	energy-dispersive X-ray fluorescence spectrometric method	ŠPP 004-T (STN EN ISO 13032, IP 532)	
8	Petroleum products	Water content	coulometric Karl Fischer titration method	STN EN ISO 12937 (ŠPP 003-T)	

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Testing laboratory Nové Zámky, Komjatická 73, 940 02 Nové Zámky

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1	Wine, spirits	Reducing sugar Invert sugar	titrimetric determination	ŠPP ORG.M.036 (Davidek, J.: Labory Guide to Food Analysis. Prague, 1981, p.240-241. OIV-MA-A-S311)	O/I
2	Spirits	Methanol	GC-FID	ŠPP ORG.M.013/A (Commission Regulation No. 2870/2000 as amended)	O/I
3	Wine, spirits	Alcohol Actual alcoholic strength	pycnometry	ŠPP ORG.M.017 (Commission Regulation No. 2870/2000, OIV-MA-A-S312)	O/I
4	Unoccupied				
5	Unoccupied				
6	Honey	Hydroxymethylfurfural	spectrophotometric method	ŠPP INO.M.150 (STN 57 0190 art. 19)	O/I
7	Non-alcoholic beverages, syrups, candies, dairy products, juices, jams, pastry	Cyclamic acid	HPLC-DAD	ŠPP ORG.M.053 (STN EN 12857 STN EN 1379)	O/I
8	Raw materials and products of vegetable and animal origin (vegetable, fruit, dairy products, meat products, fish and fish products)	Nitrite Nitrate	HPLC-UV VIS	ŠPP ORG.M.057 (STN EN 12014-2, 4 ČSN EN 12014-2)	O/I
9	Food, agricultural and food industry raw materials	Ascorbic acid	titrimetric determination	ŠPP ORG.M.027 (ČSN ISO 6557-2)	O/I
10	Meat products, cheese, non-alcoholic beverages and syrups	Phosphoric acid and polyphosphates as P_2O_5	spectrophotometric method	ŠPP INO.M.009 (Davidek, J. and coll.: Laboratory guide to food analysis, Prague, 1981, p. 142)	O/I
11	Wine and winery products, spirits, cannery semiproducs, dried fruit, products from fruit and vegetables, confectionery products, durable pastry, dry shell fruit and kernels	Total Sulfur dioxide Free Sulfur dioxide	titrimetric determination, titrimetric determination after distillation	ŠPP INO.M.033 (STN EN 1988-1 STN 56 0216-7 OIV-MA-A-S323-04A,B STN 56 0246-22 STN EN 13196 STN 56 0146, art. 69 STN 56 0232, art. 58)	O/I
12	Meat, meat products	Hydroxyproline Collagen total protein ratio Collagen Meat protein	spectrophotometric method calculation	ŠPP ORG.M.058 (Official collection of test methods according to § 35 of the German Food Code. Method 06.00)	O/I
13	Fats and oils, meat products, egg mass, dry shell fruit and kernels, oilseeds, butter, melted pork lard and processed tallow	Acidity and acid number	titrimetric determination	ŠPP ORG.M.019 (ČSN EN ISO 660 STN 57 0185, art. 22 ČSN 57 2301, art. 5.7 STN 56 0232, art. 56, 57 ČSN 57 0108, STN ISO 729, ČSN 58 0100)	O/I
14	Fats and oils, dry shell fruit and kernels, feedstuffs	Peroxide number	titrimetric determination	ŠPP ORG.M.023 (ČSN ISO 3960, ČSN 58 0100 STN 56 0232, art. 54, 55 ČSN ISO 27107 Ministry of Agriculture SR Regulation No. 1497/4/1997-100. Annex No. 3, Part 3, as amended, Ministry of Agriculture CR Regulation No. 124/2001, as amended)	O/I
15	Ground (powdered) pepper	Natural colouring matter	spectrophotometric method	ŠPP ORG.M.024 (ČSN EN ISO 7541 ČSN 58 0110)	O/I
16	Spirits, tea, coffee, coffee substitutes	Extract	gravimetric method	ŠPP INO.M.016 (STN 56 0210-5, art.21, STN ISO 9768, STN 58 0113, art.38, STN 58 1302, art.18)	O/I

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17	Wine, cannery semiproducts and products from fruit and vegetables	Extract Sugar-free extract	pycnometry calculation	ŠPP INO.M.016 (ČSN 56 0216- 9, OIV-MA-A-S2-03A,B, ČSN 56 0246, art. 58)	O/I
18	Cannery semiproducts and products from fruit and vegetables, wine, confectionery products and durable pastry	Volatile acids	titrimetric determination after distillation	ŠPP INO.M.046 (ČSN 56 0246-15 STN 56 0216-6 OIV-MA-A-S313-02 STN 56 0146, art. 49)	O/I
19	Spirits	Total acids	titrimetric determination	ŠPP INO.M.065 (STN 56 0210-6 Commission Regulation No.2870/2000 as amended)	O/I
20	Beer	Alcohol and extract in original beer wort	pycnometry	ŠPP ORG.M.050 (STN 56 0186-5, 6)	O/I
21		Colour EBC	spectrophotometric method	ŠPP INO.M.088 (STN 56 0186-8)	O/I
22	Products made from cow's milk	Foreign fat	GC-FID	ŠPP ORG.M.068 (STN EN ISO 17678)	O/I
23	Muscle tissue of fish	Histamine	HPLC- DAD	ŠPP ORG.M.088 (Commission Regulation (EC) No. 1441/2007)	O/I
24	Food, consumer goods, cosmetic products	Weight of content and of volume of package Net weight Weight % of components	gravimetric method	ŠPP QA.M.038 (STN 570146-3, STN 56 0240-6, ČSN 58 0170-3, CODEX STANDARD: 190-1995 CODEX STANDARD: 165-1989)	O/I
25	Sugar	Colour of solution	spectrophotometric method	ŠPP INO.M.124 (STN 56 0160-8 Commission Regulation (EC) No. 1265/69, Annex B/1)	O/I
26		Polarisation Sugar content	polarimetry	ŠPP INO.M.125 (ICUMSA GS6-3, Commission Regulation (EC) No. 1265/69, Annex B/1, STN 46 2110)	O/I
27	feedstuffs, raw materials, feedstuffs mixtures, premixes and additives	Moisture/Dry matter	gravimetric method	ŠPP INO.M.044/A (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 3, Part A, as amended, Commission Regulation (EC) No. 152/2009, Annex No. 3 as amended)	
28		Crude protein Crude protein in dry matter	titrimetric determination after distillation (Kjeldahl method) calculation	ŠPP INO.M.044/B (Commission Regulation (EC) No. 152/2009, Annex No. 3 as amended)	
29	feedstuffs, raw materials, feedstuffs mixtures, premixes and additives agricultural and food products	Crude fibre	gravimetric method	ŠPP INO.M.044/C (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 3, Part H 1, as amended, Commission Regulation (EC) No. 152/2009 Annex No. 3 as amended) ŠPP INO.M.078 (ČSN ISO 5498)	
30	feedstuffs, raw materials, feedstuffs mixtures, premixes and additives	Ash	gravimetric method	ŠPP INO.M.044/D (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 3, Part D 1, as amended, Commission Regulation (EC) No. 152/2009 Annex No.3 as amended)	

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31	Feedstuffs, raw materials, feedstuffs mixtures, premixes and additives	Ash insoluble in hydrochloric acid	gravimetric method	ŠPP INO.M.044/G (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 3, Part D 2, as amended, Commission Regulation (EC) No. 152/2009, Annex No. 3 as amended)	
32		Fat Fat after hydrolysis	extraction, extraction after hydrolysis, gravimetric method	ŠPP INO.M.044/E (Ministry of Agriculture Regulation No. 149/2/2003-100 for Ministry of Agriculture Regulation No. 1497/4/1997-100 , Part C 1 as amended, Commission Regulation (EC) No. 152/2009, Annex No.3 as amended)	
33	Silage	pH	potentiometric method	ŠPP INO.M.044/H (Ministry of Agriculture Regulation No.1497/4/1997-100. Annex No. 3, Part L 1, as amended)	
34	Feedstuffs, raw materials, feedstuffs mixtures, premixes and additives	Chlorides	titrimetric determination	ŠPP INO.M.044/F (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 3, Part F 7, as amended, Commission Regulation (EC) No. 152/2009, Annex No.3 as amended)	
35		Pests	counting	ŠPP INO.M.044/J (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 2, Part B, as amended)	
36		Acid number	titrimetric determination	ŠPP INO.M.044/I (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 3, Part C 2, as amended, Ministry of Agriculture CR Regulation No. 124/2001, as amended)	
37		Sensory properties	sensory analysis	ŠPP INO.M.044/K (Ministry of Agriculture Regulation No. 1497/4/1997-100. Annex No. 2, Part B, as amended)	
38	Cereals, pulses	Pests	counting	ŠPP INO.M.037 (STN 56 0520, čl.17 ČSN 56 0520-4)	Pearl barely, rice, millet, buckwheat, pulse
39	Cereals, pulses, oilseeds	Impurities and contaminants	gravimetric method	ŠPP INO.M.037 (STN 46 1011-1,6, 12, 21, 22, 24, 30, 31, 32, 33, 34 STN 46 1100-1, 2, 3, 5, 6, 7, 8 STN 46 1200-6, STN 46 1300-1, 2, 3, 4 STN 46 2300-2,3,4,6,7 STN EN ISO 658 STN EN 15587+A1)	
40	Cereals, mill products	Wet gluten Wet gluten in dry matter	gravimetric method	ŠPP INO.M.038 (STN 46 1011-9, STN 56 0512 STN EN ISO 21415-1)	
41	Cereals	Protein Crude protein Crude protein in dry matter	titrimetric determination after distillation (Kjeldahl method) calculation	ŠPP INO.M.040 (STN 46 1011-17, ČSN ISO 1871, STN EN ISO 20483)	
42	Cereals, oilseeds	Moisture/Dry matter	gravimetric method	ŠPP INO.M.041 (STN EN ISO 712, STN EN ISO 6540, STN EN ISO 665)	
43	Oilseeds	Fat Fat in dry matter Fat at 8 % moisture	extraction, gravimetric method, calculation	ŠPP ORG.M.020 (STN 46 1011-28 STN EN ISO 659)	
44	Cereals	Hagberg falling number	Hagberg-Perten method measurement of time	ŠPP INO.M.042 (STN EN ISO 3093 ČSN EN ISO 3093)	Wheat, rye and their flours
45	Cereals, pulses, oilseeds	Organoleptical tests	sensory analysis	ŠPP INO.M.122 (STN 46 1011-2)	

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46	Wheat	Sedimentation index – Zeleny test	volume measurement	STN ISO 5529 (ŠPP INO.M.123)	
47	Cereals	Bulk density	gravimetric method	ŠPP INO.M.121 (STN EN ISO 7971-3)	
48	Foodstuffs (food, spices and beverages) and their components, agricultural products	Sensory analysis of organoleptic properties: smell, taste, astringency, sensation of temperature (burning, chemical cooling), pungency, flavour, appearance, colour, texture and consistency, hedonic properties: palatability, acceptability, preference, aversion	Difference testing	ŠPP SA.M.002 (STN EN ISO 5495, STN EN ISO 4120, STN EN ISO 10399, ČSN ISO 6658, ČSN ISO 8588)	O/I
49		Sensory analysis of organoleptic properties: smell, taste, astringency, sensation of temperature (burning, chemical cooling), pungency, flavour, appearance, colour, texture and consistency, hedonic properties: palatability, acceptability, preference, aversion	Sensory analysis with the use of scales and categories	ŠPP SA.M.003 (ČSN ISO 8587, ČSN ISO 4121, ČSN ISO 11056)	O/I
50		Sensory analysis of organoleptic properties: smell, taste, astringency, sensation of temperature (burning, chemical cooling), pungency, flavour, appearance, colour, texture and consistency	Sensory analysis – analytical or periphrastic methods	ŠPP SA.M.004 (STN EN ISO 13299, ISO 6564, ČSN ISO 11036, ČSN ISO 11035)	O/I
51	Water - drinking	Threshold odour number (TON) and threshold flavour number (TFN)	Sensory analysis	STN EN 1622	
52	Foodstuffs, feedstuffs, surface of carcasses	Enumeration of microorganisms	cultivation, colony-count technique	STN EN ISO 4833-1 STN EN ISO 4833-2 ČSN EN ISO 4833-1 ČSN EN ISO 4833-2 (ŠPP MB.M.025)	
53		Enumeration of <i>Enterobacteriaceae</i>	cultivation, colony-count technique	STN ISO 21528-2 ČSN ISO 21528-2 (ŠPP MB.M.026)	
		Detection and enumeration of <i>Enterobacteriaceae</i>	subcultivation cultivation	STN ISO 21528-1 ČSN ISO 21528-1 (ŠPP MB.M.118)	Foodstuffs, feedstuffs
54	Foodstuffs, feedstuffs	Enumeration of coliform bacteria	cultivation, colony-count technique	STN ISO 4832 ČSN ISO 4832 (ŠPP MB.M.027)	
55	Foodstuffs	Enumeration of <i>Staphylococcus aureus</i> (coagulase positive staphylococci)	cultivation, colony-count technique	STN EN ISO 6888-1 STN EN ISO 6888-1/A1 ČSN EN ISO 6888-1 ČSN EN ISO 6888-1/A1 (ŠPP MB.M.028) STN EN ISO 6888-2 STN EN ISO 6888-2/A1 ČSN EN ISO 6888-2 ČSN EN ISO 6888-2/A1 (ŠPP MB.M.119)	

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56	Foodstuffs, feedstuffs	Enumeration of yeasts and moulds	cultivation, colony-count technique	STN ISO 21527-1 STN ISO 21527-1/01 STN ISO 21527-2 STN ISO 21527-2/01 ČSN ISO 21527-1 ČSN ISO 21527-2 (ŠPP MB.M.029)	
57		Enumeration of <i>Bacillus cereus</i>	cultivation, colony-count technique	STN EN ISO 7932 ČSN EN ISO 7932 (ŠPP MB.M.030)	
58	Foodstuffs, feedstuffs, swabs of surface of carcasses	Detection of <i>Salmonella</i>	cultivation, biochemical and serological identification	STN EN ISO 6579-1 ČSN EN ISO 6579-1 (ŠPP MB.M.031)	
		Detection of <i>Salmonella enteritidis</i> and <i>Salmonella typhimurium</i>	cultivation, biochemical and serological identification	ŠPP MB.M.145 (STN EN ISO 6579-1 ČSN EN ISO 6579-1)	Foodstuffs
59	Foodstuffs, feedstuffs, surface of food industry equipment, swabs	Detection of <i>Salmonella</i>	PCR	ŠPP MB.M.070 (STN EN ISO 6579-1 STN EN ISO 22174, ČSN EN ISO 6579-1 ČSN EN ISO 22174)	
60	Foodstuffs, feedstuffs	Enumeration of mesophilic anaerobic spore-forming and non-sporulating microorganisms	cultivation, colony-count technique	ŠPP MB.M.032 (STN 56 0100 art.89, STN EN ISO 7937, ČSN 56 0100 art.89, ČSN EN ISO 7937)	
61	Foodstuffs	Enumeration of mucific bacteria <i>Leuconostoc</i>	cultivation, colony-count technique	STN 56 0095 ČSN 56 0095 (ŠPP MB.M.033)	
62	Foodstuffs	Enumeration of <i>Pseudomonas aeruginosa</i>	cultivation, colony-count technique	ŠPP MB.M.034 (STN EN ISO 16266, ČSN EN ISO 16266, ČSN 56 0100, art.83)	
63		Detection of <i>Listeria monocytogenes</i>	cultivation, biochemical identification	STN EN ISO 11290- 1 STN EN ISO 11290- 1/A1 ČSN EN ISO 11290- 1 ČSN EN ISO 11290- 1/A1 (ŠPP MB.M.035)	
64	Foodstuffs, feedstuffs, surface of food industry equipment, swabs	Detection of <i>Listeria monocytogenes</i>	PCR	ŠPP MB.M.071 (STN EN ISO 11290-1, STN EN ISO 22174, ČSN EN ISO 11290-1, ČSN EN ISO 22174)	
65	Foodstuffs	Enumeration of <i>Listeria monocytogenes</i>	cultivation, colony-count technique	STN EN ISO 11290- 2 STN EN ISO 11290- 2/A1 ČSN EN ISO 11290- 2 ČSN EN ISO 11290- 2/A1 (ŠPP MB.M.035)	
66	Foodstuffs, feedstuffs	Enumeration of <i>Clostridium perfringens</i> , sulphite reducing clostridia	cultivation, colony-count technique	STN EN ISO 7937 ČSN EN ISO 7937 (ŠPP MB.M.036)	
67	Foodstuffs	Enumeration of enterococci	cultivation, colony-count technique	ŠPP MB.M.043 (STN EN ISO 7899-2 ČSN EN ISO 7899-2)	

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68	Foodstuffs, feedstuffs	Microbiological testing to exclude presence of some genera of pathogenic and conditional pathogenic bacteria	cultivation, biochemical identification	ŠPP MB.M.044 (STN 56 0100, čl. 96 STN EN ISO 6579-1 ČSN EN ISO 6579-1 STN EN ISO 11290- 1 STN EN ISO 11290- 1/A1 ČSN EN ISO 11290- 1 ČSN EN ISO 11290- 1/A1 STN EN ISO 6888-1 STN EN ISO 6888-1/A1 ČSN EN ISO 6888-1 ČSN EN ISO 6888-1/A1 STN EN ISO 16266 ČSN EN ISO 16266 ČSN 56 0100, čl.83 STN ISO 16649-2 ČSN ISO 16649-2 STN EN ISO 7932 ČSN EN ISO 7932)	
69		Enumeration of <i>Escherichia coli</i>	cultivation, colony-count technique	STN ISO 16649-2 ČSN ISO 16649-2 (ŠPP MB.M.053) STN ISO 16649-1 ČSN ISO 16649-1 (ŠPP MB.M.116) STN P ISO/TS 16649-3 ČSN P ISO/TS 16649-3 (ŠPP MB.M.117)	
70		Enumeration of potential toxigenic moulds (<i>Aspergillus flavus</i> , <i>Aspergillus parasiticus</i>)	cultivation, colony-count technique	ŠPP MB.M.056 (SZÚ Praha Guideline Acta hygienica, epidemiologica et microbiologica 1/2003)	
71	Surface of food industry equipment, surface of carcasses, surface of hands	Enumeration of microorganisms	cultivation, colony-count technique	ŠPP MB.M.064 (STN ISO 18593 STN EN ISO 4833-1, ČSN EN ISO 4833-1 STN ISO 4832, ČSN ISO 4832 STN ISO 21528-1, STN ISO 21528-2 ČSN ISO 21528-1 ČSN ISO 21528-2 STN EN ISO 6888-1 STN EN ISO 6888-1/A1 ČSN EN ISO 6888-1 STN EN ISO 16266, ČSN EN ISO 16266, STN ISO 21527-1 STN ISO 21527-1/O1 STN ISO 21527-2 STN ISO 21527-2/O1 ČSN ISO 21527-1 ČSN ISO 21527-2 STN ISO 16649-2 ČSN ISO 16649-2 STN EN ISO 11290- 2 STN EN ISO 11290- 2/A1 ČSN EN ISO 11290- 2 STN EN ISO 7932, ČSN EN ISO 7932 STN EN ISO 7937, ČSN EN ISO 7937)	

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
72	Surface of food industry equipment, surface of carcasses, surface of hands	Detection of micro-organisms	reproduction, biochemical and serological confirmation	ŠPP MB.M.064 (STN 56 0100, čl. 96 STN ISO 18593 STN EN ISO 6579-1 ČSN EN ISO 6579-1 STN EN ISO 11290- 1 STN EN ISO 11290- 1/A1 ČSN EN ISO 11290- 1 ČSN EN ISO 11290- 1/A1 STN EN ISO 6888-1 STN EN ISO 6888-1/A1 ČSN EN ISO 6888-1 ČSN EN ISO 6888-1/A1 STN EN ISO 16266, ČSN EN ISO 16266, ČSN 56 0100, čl.83 STN EN ISO 7932 ČSN EN ISO 7932)	
73	Cosmetic products	Enumeration of microorganisms	cultivation, colony-count technique	STN EN ISO 21149 (ŠPP MB.M.025)	
74		Detection of <i>Staphylococcus aureus</i>	reproduction, biochemical identification	STN EN ISO 22718 (ŠPP MB.M.142)	
75		Detection of <i>Candida albicans</i>		STN EN ISO 18416 (ŠPP MB.M.144)	
76		Detection of <i>Pseudomonas aeruginosa</i>		STN EN ISO 22717 (ŠPP MB.M.143)	
77	Articles of routine use	Enumeration of microorganisms	cultivation, colony-count technique	ŠPP MB.M.025 (STN EN ISO 4833-1)	
78		Enumeration of <i>Enterobacteriaceae</i>		ŠPP MB.M.026 (STN ISO 21528-2)	
79		Enumeration of <i>Staphylococcus aureus</i>		ŠPP MB.M.028 (STN EN ISO 6888-1 STN EN ISO 6888-1/A1 ČSN EN ISO 6888-1 ČSN EN ISO 6888-1/A1)	
80		Enumeration of yeasts and moulds		ŠPP MB.M.029 (STN ISO 21527-1 STN ISO 21527-2)	
81		Enumeration of mesophilic anaerobic spore-forming micro-organisms		ŠPP MB.M.032 (STN 56 0100 čl.90)	
82		Enumeration of <i>Pseudomonas aeruginosa</i>		ŠPP MB.M.034 (STN 56 0100 čl.82)	
83	Foodstuffs	Detection of <i>Cronobacter spp.</i>	cultivation, biochemical identification	STN P ISO/TS 22964 ČSN P ISO/TS 22964 (ŠPP MB.M.121)	
84	Foodstuffs, feedstuffs, cosmetic products	Enumeration of mesophilic lactic acid bacteria	cultivation colony-count technique	STN ISO 15214 ČSN ISO 15214 (ŠPP MB.M.131)	
85	Foodstuffs, feedstuffs, swabs	Enumeration of osmophilic yeasts and moulds	cultivation colony-count technique	ŠPP MB.M.138 (STN ISO 21527-2 STN ISO 21527-2/O1 ČSN ISO 21527-2)	
86	Foodstuffs	Detection of <i>Campylobacter spp.</i>	cultivation, genus confirmation	STN EN ISO 10272-1 ČSN EN ISO 10272-1 (ŠPP MB.M.112)	

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
87	Water: -underground, -spring, -infant, -drinking, -mineral, -bathing	pH	potentiometric method	ŠPP INO.M.006 (ČSN ISO 10523 SL I, edition No.1, p.46-48)	O/I
88		Conductivity	conductometric determination	ŠPP INO.M.007 (STN EN 27888 ČSL 4, Volume 2, p.97)	O/I
89		COD _{Mn}	titrimetric determination	ŠPP INO.M.031 (STN EN ISO 8467)	O/I
90		PO ₄ ³⁻ , HPO ₄ ³⁻	spectrophotometric method	ŠPP INO.M.019 (STN EN ISO 6878)	O/I
			spectrophotometric method using sets	ŠPP INO.M.019/B	
91		Sulphide: Sulfane free Hydrogensulphide	titrimetric determination	ŠPP INO.M.027 (STN 75 7483)	O/I
			spectrophotometric method	ŠPP INO.M.027/B (STN 75 7483)	
92	Water: -drinking -mineral	Total cyanide	spectrophotometric method	ŠPP INO.M.021 (HACH Company, Procedures manual, p.135-144)	O/I
93	Water: -underground, -spring, -infant, -drinking, -mineral, -bathing	Anions and oxyhalides: (Cl ⁻ , F ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ , Br ⁻ , BrO ₃ ⁻ , ClO ₂ ⁻ , ClO ₃ ⁻ , I ⁻)	IC	ŠPP INO.M.092 (STN EN ISO 10304-1,2,4, STN EN ISO 15061)	O/I
94		Ammonium ions	spectrophotometric method	ŠPP INO.M.064 (STN ISO 7150-1)	O/I
95	Water -drinking -surface	Absorbance at 254 nm	spectrophotometric method	ŠPP INO.M.154 (STN 75 7360)	O/I
96	Water -drinking	Polycyclic aromatic hydrocarbons (PAH): benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, fluoranthene, indeno(1,2,3-cd)pyrene, Sum of 6 PAHs	HPLC-FLD calculation	ŠPP ORG.M.025 (STN EN ISO 17993)	O/I
97	Water -drinking	Organochlorine Pesticides (OCP): aldrine, p,p'- DDT, endosulfane I, endosulfane II, endrine, heptachlorine, α-HCH, HCB, β-HCH, γ-HCH, δ-HCH, heptachlorepoxyde, p,p'- DDE, dieldrine, p,p'- DDD, endrin aldehyde, endosulfan sulphate, metoxychlorine	GC-ECD	ŠPP ORG.M.008 (STN EN ISO 6468)	O/I
98	Water -drinking -underground -spring -mineral	Redox potential	potentiometric method	ŠPP INO.M.109 (ČSN 75 7367)	O/I
99	Water -drinking -underground -spring -mineral -bathing	Total alkalinity, composite alkalinity, Free and total CO ₂ , HCO ₃ ⁻ , CO ₃ ²⁻	titrimetric determination	ŠPP INO.M.049 (STN EN ISO 9963-1 STN 75 7374)	O/I

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100	Water: - underground - spring - infant - drinking - mineral - bathing	Acidity	titrimetric determination	ŠPP INO.M.050 (STN 75 7372)	O/I
101		Colour	spectrophotometric method	ŠPP INO.M.051 (STN EN ISO 7887)	O/I
102		Turbidity	turbidimetric determination	ŠPP INO.M.052 (STN EN ISO 7027-1)	O/I
103		Dissolved oxygen	electrochemical method	ŠPP INO.M.053 (STN EN ISO 5814)	O/I
104		Sum of <i>Ca</i> and <i>Mg</i>	titrimetric determination	ŠPP INO.M.054 (STN ISO 6059)	O/I
105	Water: - drinking - bathing - waste	Free and total chlorine	spectrophotometric method	ŠPP INO.M.070/A (STN EN ISO 7393-2) ŠPP INO.M.070/B	O/I Testing outside the laboratory at the customer
106	Water: - underground - spring - infant - drinking - mineral	Dissolved substances at 105 °C and 550°C	gravimetric method	ŠPP INO.M.057 (STN 75 7373 ČSN 75 7346)	O/I
107		Dissolved solids, dried at 180°C, annealed at 260°C	gravimetric method		O/I
108	Water: - underground, - spring, - infant, - drinking, - mineral, - bathing	Enumeration of <i>Pseudomonas aeruginosa</i>	cultivation, colony-count technique	STN EN ISO 16266 ČSN EN ISO 16266 (ŠPP MB.M.034)	
109	Water: - bathing, - waste	Detection of <i>Salmonella sp.</i>	reproduction, biochemical and serological identification	STN EN ISO 19250 ČSN ISO 19250 (ŠPP MB.M.031)	
110	Water: - underground, - mineral, - spring, - infant, - bathing	Detection of pathogenes	cultivation and identification	STN 56 0100 čl.95, 96, STN EN ISO 19250 ČSN ISO 19250 (ŠPP MB.M.044)	
111	Water: - spring, - underground, - surface, - mineralne, - drinking, - bathing, - waste	Enumeration of intestinal enterococci	cultivation, colony-count technique	STN EN ISO 7899-2 ČSN EN ISO 7899-2 (ŠPP MB.M.040)	
112		Enumeration of culturable microorganisms at 22°C and 36°C	cultivation, colony-count technique	STN EN ISO 6222 ČSN EN ISO 6222 (ŠPP MB.M.041)	
113		Enumeration of coliform bacteria, thermo-tolerant coliform bacteria presumptive <i>Escherichia coli</i>	cultivation, colony-count technique	STN EN ISO 9308-1:2015 ČSN EN ISO 9308-1:2015 STN 75 7840 STN EN ISO 9308-1:2003 (ŠPP MB.M.039)	
114		Enumeration of the spores of sulfite-reducing anaerobes (clostridia), detection of <i>Clostridium perfringens</i>	cultivation, colony-count technique method using membrane filtration	STN EN 26461-2 ČSN EN 26461-2 STN EN ISO 14189 (ŠPP MB.M.050)	
115		Enumeration of <i>Staphylococcus aureus</i>	cultivation, colony-count technique	ŠPP MB.M.028 (STN EN ISO 6888-1 ČSN EN ISO 6888-1)	

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116	Working air	Ammonium	spectrophotometric method	ŠPP PRA.M.005 (Križan: Analýza Ovzdušia, STN EN 482, STN EN 689 STN ISO 8756 STN EN ISO 13137 STN EN 1540)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
117		Solid aerosol	gravimetric method	ŠPP PRA.M.009 (STN EN 481, STN EN 482, STN EN 689, STN ISO 8756, STN EN ISO 13137, STN PCEN/TR 13649, STN EN 13284-1, STN EN ISO 10882-1, AHM Pr.No.8/76, Government Regulation CR No.523/2002)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
118		Toxic gases: Methane, Carbon monoxide, Carbon dioxide, Nitric oxide, Nitrogen dioxide, Sulfur dioxide, Hydrogen sulfide, Chlorine	gas analyzer Dräger	ŠPP PRA.M.030 (Manual X-am 7000 a GasVision V5.0.7 Beta Drägersafety, Dräger Sensor Data Sheets, STN EN 482, STN EN 689, STN EN 1540)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
119	Outdoor environment and working environment	Noise immission A-weighted equivalent continuous sound pressure level $L_{Aeq,T}$	Measurement of noise in outdoor environment, in buildings and working environment	ŠPP PRA.M.002 ŠPP PRA.M.018 ŠPP PRA.M.019 (STN ISO 1996-1 STN ISO 1996-2 STN EN ISO 9612 Regulation of the Ministry of Health No. 549/2007, MoH SR regulation SR for objectification of physical environmental factors and working environment, 2011)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
		A-weighted N- percentile sound pressure level $L_{AN,T}$			
		A-weighted maximum sound pressure level L_{Amax}			
		Equivalent continuous sound pressure level in third-octave band $L_{req,T}$			
120	Working environment	Noise exposure level normalized $L_{AEX,8h}$	Measurement of noise exposure in working environment	ŠPP PRA.M.001 (STN EN ISO 9612, Government Regulation No. 115/2006, Government Regulation No. 555/2006 MoH SR regulation SR for objectification of physical environmental factors and working environment, 2011)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
		C-weighted peak sound pressure level $L_{CPk,T}$			
121		Artificial lighting. Illumination E_m Equality of illumination r	measurement of artificial lighting in working environment and task area	ŠPP PRA.M.022 (MoH SR Regulation 541/2007 Z.z., STN 12464-1, STN 12464-2, MoH SR regulation SR for, which regularize the procedure of lighting measurement and assessment, Journal MZ SR, No. 27-49, 2013, MoH SR regulation SR for objectification of physical environmental factors and working environment, 2011)	Indoor and outdoor environment For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended

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	Object	Property / Parameter	Principle / Type	Identification	
122	Working environment	Hygrothermal microclimate measurement temperature t_a , t_g , relative humidity rh , air velocity v_A	measurement of hygrothermal microclimate in working environment	ŠPP PRA.M.012 (MoH SR Regulation 544/2007 Z.z., MoH SR Regulation 259/2008 Z.z., MoH SR regulation SR for, which regularize the procedure of measurement and assessment of hygrothermal microclimate, Journal MZ SR, No. 27-49, 2013, MoH SR regulation SR for objectification of physical environmental factors and working environment, 2011)	Indoor environment For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
123		Human exposure to hand- transmitted vibration $a_{h,v,8h}$	measurement of human exposure to handtransmitted vibration	ŠPP PRA.M.026 (STN EN ISO 5349-1, STN EN ISO 5349-2, Government Regulation No.416/2005 MoH SR regulation SR for objectification of physical environmental factors and working environment, 2011)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
124	Working environment	Human exposure to whole- body vibration $a_{wx,8h}$ $a_{wy,8h}$ $a_{wz,8h}$	measurement of human exposure to wholebody vibration	ŠPP PRA.M.036 (STN ISO 2631-1, STN ISO 2631-2, Government Regulation No.416/2005 MoH SR regulation SR for objectification of physical environmental factors and working environment, 2011)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended
125	Building interior air	Biological factors (Enumeration of total microorganisms, enumeration of mould detection of patogenes)	cultivation colony-count technique	ŠPP PRA.M.034 (AHEM, No. 1/2002 - Standard operating procedures for the investigation of microorganisms in the air and for the evaluation of microbiological air pollution in the indoor environment, Praha, November 2001, Sampl'air Lite operating instructions)	For the purposes of the Act No. 355/2007 the protection, promotion and development of public health as amended Regulation of the Ministry of Health No. 259/2008 Z.z requirements for indoor climate environment and the minimal requirements for lower standard apartments and accommodation facilities
126	Water: - drinking, - surface, - waste	Temperature	direct measurement with thermometer	ŠPP INO.M.170 (STN 75 7375)	Testing outside the laboratory at the customer
127	Milk, dairy products	Residues of inhibitory substances (DELVOTEST)	cultivation qualitative test	ŠPP MB.M.054/A (Instruction for use DELVOTEST® SP NT, Ministry of Agriculture Regulation No. 53/2004, list of official methods of laboratory diagnostics of food and feed, Supp. No. 1/2004, CH 12.17, Annex No. 70)	
	Meat, meat products	Residues of inhibitory substances (PREMITEST)		ŠPP MB.M.054/B (Instruction for use PREMI®TEST Ministry of Agriculture Regulation No. 53/2004, list of official methods of laboratory diagnostics of food and feed, Supp. No. 1/2004, CH 12.18, Annex No. 71)	
	Milk, milk products, meat, meat products, eggs, honey, fish	Residues of inhibitory substances (STARTEST)		ŠPP MB.M.054/C (Ministry of Agriculture Regulation No. 53/2004, list of official methods of laboratory diagnostics of food and feed, Supp. No. 1/2004, CH 12.19, Annex No. 72)	
128	Foodstuffs	Bacteria of the genus Lactobacillus	cultivation	STN 56 0094 ČSN 56 0094 (ŠPP MB.M.147)	

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
129	Foodstuffs	Enumeration of <i>Campylobacter</i> spp.	cultivation, colony-count technique	STN EN ISO 10272-2 ČSN EN ISO 10272-2 (ŠPP MB.M.112)	
130	Spirits	Fixed acidity Volatile acidity	titrimetric determination calculation	ŠPP INO.M.172 (Commission Regulation No. 2870/2000 as amended)	

The personnel responsible for the opinions and interpretation

Name and surname, title	Responsible for the opinions and interpretation - - item No. of Accreditation Scope
Ing. Ladislav Nagy	1-26
Ing. Narcisa Varagyová	1-26
Mgr. Andrea Bereková	87-107
Ing. Barbora Hrubá	48-51

Sampling:

Item	Object			Sampling method		The other specification
	Sampled object	Property	The location of sampling	Principle	Identification	
1.1	Water and related matrix	Drinking water	NZ- Items No. Fixed scope: 51, 87-108, 110-115, 126 TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29,46 BA- Items No. Fixed scope: 24 PN- Items No. Fixed scope: 1,3-10,15 RK- Items No. Fixed scope: 9, 10 Subcontracting of tests	Tanks, treatment works, piped distribution systems, tap of the consumer, bottled waters, spring, well	Single discrete samples/ Manual sampling	ŠPP-001 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-5, STN ISO 5667-14, STN EN ISO 19458, STN ISO 11731, STN EN ISO 11731-2)
1.2		Surface water	NZ- Items No. Fixed scope: 87-91, 93-95, 99-105, 108-115, 126 TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29,46 BA- Items No. Fixed scope: 24 PN- Items No. Fixed scope: 1-7,10,15 RK- Items No. Fixed scope: 2-5, 9, 10 Subcontracting of tests	Natural and man-made lakes River, stream Swimming pools and artificial bathing places	Single discrete samples, Composite samples/ manual sampling	ŠPP-002 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-4, STN ISO 5667-6, STN ISO 5667-14, STN EN ISO 19458, STN 75 7715, STN ISO 11731, STN EN ISO 11731-2)
1.3	Water and related matrix	Waste water	NZ- Items No. Fixed scope: 109,111-115, 126 TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29 BA- Items No. Fixed scope: 24 RK- Items No. Fixed scope: 2-10,13 Subcontracting of tests	Pickers, Sewers, Shafts Wastewater treatment plant	Single discrete samples, Composite samples / manual sampling and sampling by automatic sampler	ŠPP-003 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-10, STN ISO 5667-14, STN EN ISO 19458)

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Item	Object			Sampling method		The other specification
	Sampled object	Property	The location of sampling	Principle	Identification	
1.4	Sludge	TR- Items No. Fixed scope: 5,9,11,13, 23,24,30-34 RK- Items No. Fixed scope: 1,9,10,12,16 Subcontracting of tests	Mounds, Dumps, Sewers, Wastewater treatment, Water treatment, Industry	Single discrete samples, Composite samples / mechanical sampling	ŠPP-004 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-13, STN ISO 5667-14, STN ISO 5667-15)	
2	Food	NZ- Items No. Fixed scope: 1-26, 48-50, 52-70, 83-86, 127, 128, 129, 130 Flexible scope: 1-36, 40, 41 TR- Items No. Fixed scope: 39-43, 47 Subcontracting of tests	Industry area, Stores, Point of sales	Random sampling of batch, Systematic sampling	ŠPP-008 (Regulation of the Ministry of agriculture and Regulation of the Ministry of Health No. 451/2003-100 as amended, Commission Regulation (EC) No. 1441/2007 as amended)	
3	Swabs from surface	NZ-Items No. Fixed scope:52, 53, 58, 59, 64, 71, 72, 85	Surface of objects and areas	Swabs, contact Petri dishes	ŠPP MB.M.064 (STN ISO 18593)	
4	Air	NZ- Items No. Fixed scope: 116-118, 125 Flexible scope: 37-39 TR- Items No. Fixed scope: 37-39 RK- Items No. Fixed scope: 27 Subcontracting of tests	Working air, Building interior air	Personal sampling, stationary sampling	ŠPP PRA.M.003/A,B,C (STN EN 1540 STN ISO 6879 STN EN 481,STN EN 482 STN EN 689 STN ISO 8756 STN EN 13137 STN EN ISO 16017 STN EN ISO 10882-1 STN EN 13649 NIOSH Method 5523 OSHA Method ID-113 and ID-186SG Operation manual Sampl'air Lite)	
5	Soil	TR- Items No. Fixed scope:23,33, 34 RK- Items No. Fixed scope: 9, 10	plough-land, gardens, grasslands,orchards, vineyards	Single discrete samples, Composite samples/ manual sampling	ŠPP-006 (Regulation of the Ministry of agriculture 338/2005 as amended)	
6	Reserved					
7	Contaminated land (soil), solid, liquid and pasty wastes	TR- Items No. Fixed scope: 5, 9, 11, 13, 30-34, 23, 24, RK- Items No. Fixed scope: 1, 9, 10, 12 Subcontracting of tests	Mounds, Lands, Dumps, Tanks, Barrels	Single discrete samples, Composite samples/ manual sampling	ŠPP-007 (Regulation of the Ministry of environment No. 1/2015 of the JMAKO STN 01 5111)	
8	Fuels	BA - Items No. Fixed scope: 25 až 33 TV - Items No. Fixed scope: 1 až 8	Gas station	Sampling from fuel dispensers	ŠPP 051-K (STN EN 14275)	

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Testing laboratory Piešťany, Mudroňova 2388/25, 921 01 Piešťany

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	Object	Property / Parameter	Principle / Type	Identification	
1	Water: - underground, - spring, - infant, - drinking, - mineral, - bathing	Enumeration of <i>Pseudomonas aeruginosa</i>	cultivation, colony-count technique	STN EN ISO 16266 ČSN EN ISO 16266 (ŠPP MB.M.034.PN)	
2	Water: - bathing	Detection of <i>Salmonella</i> sp.	reproduction, biochemical and serological identification	STN EN ISO 19250 ČSN ISO 19250 ČSN ISO 19250/Z1 (ŠPP MB.M.031.PN)	
3	Water: - underground, - mineral, - spring, - infant, - bathing	Detection of pathogenes	cultivation and identification	ŠPP MB.M.044.PN (STN 56 0100 čl.95, 96, STN EN ISO 19250 ČSN ISO 19250)	
4	Water: - spring, - underground, - surface, - mineral, - drinking, - bathing	Enumeration of intestinal enterococci	cultivation, colony-count technique	STN EN ISO 7899-2 ČSN EN ISO 7899-2 (ŠPP MB.M.040.PN)	
5		Enumeration of culturable microorganisms at 22°C and 37°C	cultivation, colony-count technique	STN EN ISO 6222 ČSN EN ISO 6222 (ŠPP MB.M.042.PN)	
6		Enumeration of coliform bacteria, thermo-tolerant coliform bacteria presumptive <i>Escherichia coli</i>	cultivation, colony-count technique	ŠPP MB.M.039.PN STN EN ISO 9308-1:2015 ČSN EN ISO 9308-1:2015 STN 757840 STN EN ISO 9308-1:2003 STN EN ISO 9308/Z1 ČSN 757835)	
7		Enumeration of the spores of sulfite-reducing anaerobes (clostridia), detection of <i>Clostridium</i> <i>perfringens</i>	cultivation, colony-count technique	STN EN 26461-2 ČSN EN 26461-2 STN ISO 14189 ČSN EN ISO 14189 (ŠPP MB.M.050.PN)	
8	Water: - spring, - underground, - infant, - mineral, - drinking	Biological analysis Bioseston (Colorless flagellates, Iron and manganese bacteria, Filamentous bacteria, Micromycetes, living and death organism)	microscopic image	STN 75 7711 STN 75 7711/Z1 STN 757711/Z2 ČSN 75 7712 (ŠPP MB.M.062.PN)	
9		Biological analysis - abioseston		STN 75 7712 STN 75 7712/Z1 ČSN 75 7713 (ŠPP MB.M.106.PN)	
10	Water: - spring, - underground, - surface, - mineral, - drinking, - bathing	Enumeration of <i>Staphylococcus aureus</i>	cultivation, colony-count technique	ŠPP MB.M.028 (STN EN ISO 6888-1 ČSN EN ISO 6888-1)	
11	Pharmaceutical base materials, drugs and auxiliary substances, pharmaceutical products, medicaments	Efficiency of antimicrobial preservation	cultivation, colony-count technique	ŠPP MB.M.141.PN (Ph.Eur SL, ČL, as amended, art. 5.1.3 ČSN EN ISO 11930 ČSN EN ISO 11930 – Corr. 1 STN EN ISO 11930)	
12		Microbiological quality	cultivation, colony-count technique	ŠPP MB.M.140.PN (Ph. Eur. SL, ČL, as amended, art. 2.6.12, 2.6.13, 5.1.4 Guideline of ŠÚKL 126/2009)	
13		Sterility	cultivation, turbidity media	ŠPP MB.M.139.PN (Ph.Eur. SL, ČL, as amended, art. 2.6.1)	

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
14	Purified water, water for injections and haemodialysis solutions concentrated, water for diluting of haemodialysis solutions	Microbiological harmlessness	cultivation, colony-count technique	ŠPP MB.M.138.PN (Ph. Eur. SL, ČL, as amended, art. 2.6.12, 2.6.13. Guideline of ŠÚKL 106/2009)	
15	Water: -mineral, -underground, -drinking -bathing	Detection of <i>Legionella</i>	cultivation	STN EN ISO 11731 ČSN EN ISO 11731 (ŠPP MB.M.095.PN)	
		Enumeration of <i>Legionella</i>	cultivation, colony-count technique	STN EN ISO 11731-2 ČSN EN ISO 11731-2 (ŠPP MB.M.095.PN)	
16	Pharmaceutical products, haemodialysis solutions, medical device	Bacterial endotoxins	Imunomethods (LAL test)	ŠPP MB.M.146.PN (PhEur. SL, ČL, as amended, art. 2.6.14)	

Testing laboratory Ružomberok, Tatranská cesta 3, 034 17 Ružomberok

Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
1	Sludge, pulp, soil, waste, solid fuels	Dry matter, Total water, Analytical water	gravimetric method	ŠPP INO.M.004.RK (STN EN 14 346, STN EN 12 880, STN EN ISO 638, STN EN 15934, STN 44 1377, DIN 51 718, STN EN 14774-1,2,3, STN P CEN/TS 15414-1, 2)	
2	Surface and waste water, extracts, filtrate, aqueous suspension of sludge, pulp	pH	potentiometric method	ŠPP INO.M.006.RK (STN ISO 10523 STN EN 12176 STN ISO 6588-1,2)	
3	Surface and waste water, condensates, filtrate	COD _{Cr}	titrimetric determination	ŠPP INO.M.010/A.RK (STN ISO 15705)	
4	Surface and waste water, condensates, filtrate	COD _{Cr}	spectrophotometric method	ŠPP INO.M.010/B.RK (STN ISO 15705)	
5	Surface and waste water	BOD ₅	Dilution and seeding method Method for undiluted samples	ŠPP INO.M.012.RK (STN EN 1899-1, STN EN 1899-2)	
6	Waste water	Total phosphorus and PO ₄ ³⁻	spectrophotometric method using set	ŠPP INO.M.019.RK (Phosphate Test Method photometric, cat.no. 1148480001, Crack Set 10 cat.no.1146870001)	
7	Waste water	Total nitrogen	spectrophotometric method using set	ŠPP INO.M.064/A.RK (Nitrogen (total) Cell Test Method photometric, cat.no. 1006130001)	
8	Waste water	Ammonia nitrogen	spectrophotometric method using set	ŠPP INO.M.064/B.RK (Ammonium Test Method photometric, cat.no. 1147520001 1006830001)	
9	Natural, mineral, table, curative, suckling, underground, surface, percolation and waste water, bathing water, waste, aqueous extracts, soil, sludge	Adsorbable organically bound halogens (AOX)	coulometria	ŠPP INO.M.009/A.RK (STN EN ISO 9562, STN EN 16166 JMAKO Guideline No.110)	
10	Drinking, mineral, surface, underground and waste water, aqueous extracts, waste, soil, sludge	Extractable organic halides (EOX)	coulometria	ŠPP INO.M.009/B.RK (EPA 9023, JMAKO Guideline No.130, DIN 37 414 Teil 17)	
11	Liquid hydrocarbons, chemical substances, waste oil, solid matrixes	Total chlorine (TX)	coulometria	ŠPP INO.M.009/C.RK (EPA 9076, JMAKO Guideline No.290)	
12	Waste, sludge, solid fuels	Ash, loss on ignition, ash in anhydrous sample, ash in the original sample	gravimetric method	ŠPP INO.M.024. RK (STN EN 12 879, STN ISO 1171, STN EN 15403, STN EN 15935, STN EN 14775, DIN 51 719)	
13	Waste and industrial water	Suspended and dissolved solids at 105°C and 550°C	gravimetric method	ŠPP INO.M.116.RK (STN EN 872, STN 75 7373)	

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
14	Pulp	Stock concentration	gravimetric method	ŠPP INO.M.021.RK (STN EN ISO 4119)	
15	Pulp	Kappa number	titrimetric determination	ŠPP INO.M.132.RK (STN ISO 302)	
16	Pulp	Drainability	Schopper-Riegler method	ŠPP INO.M.134.RK (STN EN ISO 5267-1)	
17	Pulp	Grammage	conventional method	ŠPP INO.M.135.RK (STN EN ISO 5269-1, STN EN ISO 536)	
18	Pulp, paper	Thickness	physical testing	ŠPP INO.M.136.RK (STN ISO 534)	
19	Pulp, paper	Tensile properties	physical testing (Constant rate of elongation method)	ŠPP INO.M.137.RK (STN EN ISO 1924-2)	
20	Pulp, paper	Bursting strength	physical testing	ŠPP INO.M.138.RK (STN EN ISO 2758)	
21	Pulp, paper	Tearing resistance	physical testing (Elmendorf method)	ŠPP INO.M.139.RK (STN EN ISO 1974)	
22	Pulp, paper	Air permeance	physical testing (Bendtsen method)	ŠPP INO.M.140.RK (ISO 5636-3, ČSN ISO 5636-1)	
23	Pulp, paper	Bending resistance	physical testing	ŠPP INO.M.141.RK (STN 50 0358)	
24	Pulp, paper	Fibre dimensional characteristics	polarized light method	ŠPP INO.M.142.RK (ISO 16 065-1)	
25	Pulp, paper	ISO brightness	reflectometry	ŠPP INO.M.144.RK (STN ISO 3688, STN ISO 2470-1)	
26	Black liquor, bark, sludge, solid fuels	Gross calorific value and calculation of net calorific value	calorimetric method	ŠPP INO.M.145.RK (STN ISO 1928, STN EN 15170, STN EN 14918, STN P CEN/TS 16023, DIN 51 900-3)	
27	Air (working environment)	Compounds containing completely reduced sulfur: hydrogen sulfide, methyl mercaptan, dimethyl sulfide, dimethyl disulfide	GC-FPD	ŠPP PRA.M.027 (STN EN 482, STN EN 689, STN ISO 4219, STN EN ISO 6142, STN ISO 7395, STN EN ISO 6141)	

Notes:

1, 26 Solid fuels = coal, solid recovered fuels, biofuels (biomass, bark, chips, sawdust,...)

11 Solid matrixes = coal, ash, fly ash, slag, waste, solid recovered fuels

Sampling:

Item	Object			Sampling method		The other specification
	Sampled object	Property	The location of sampling	Principle	Identification	
27	Air	Compounds containing completely reduced sulfur: hydrogen sulfide, methyl mercaptan, dimethyl sulfide, dimethyl disulfide	Working environment	Personal sampling	ŠPP PRA.M.027	

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Item	Object of test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
1	Water, aqueous extracts	Ammonia nitrogen Ammonium	spectrophotometric method	STN ISO 7150-1 (LS-PP-CH-1)	
2		Anions : (Cl ⁻ , F ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , SO ₄ ²⁻)	IC method	LS-PP-CH-80 (STN EN ISO 10304-1)	
3		Phosphate Total phosphorus	spectrophotometric method	STN EN ISO 6878 (LS-PP-CH-8)	
4		Nonpolar extractives content (NES) and extractives content (ES)	IR,UV spectrometric method	LS-PP-CH-78 (STN 830530-36, STN 830540-4)	
5	Soil, sludge, waste	Nonpolar extractives content (NES) a extractives content (ES)		LS-PP-CH-2/35 (STN 757952)	
6	Water, aqueous extracts	Fe		STN ISO 6332 (LS-PP-CH-18)	
7		Cr ^(VI+)		STN ISO 11083 (LS-PP-CH-19)	
8		Anionic surfactants		STN EN 903 (LS-PP-CH-75)	
9	Water, aqueous extracts, soil, sludge, waste	Phenols Phenol index		LS-PP-CH-73 (STN ISO 6439)	
10	Water, aqueous extracts	Ammonia nitrogen Ammonium	titrimetric determination	LS-PP-CH-2 (STN ISO 5664)	
11	Water, aqueous extracts, Soil, sludge, waste	Total cyanide Easily liberatable cyanide	spectrophotometric method	LS-PP-CH-76 (STN ISO 6703-1) LS-PP-CH-77 (STN ISO 6703-2)	
12	Water, aqueous extracts	Total nitrogen Organic nitrogen	titrimetric determination	LS-PP-CH-79 (STN EN 25663, STN 75 7435)	
13	Soil, sludge, waste. Fertilizers, soil assistant substances, plantation substrate	Total nitrogen Ammonium nitrogen Organic nitrogen	titrimetric determination	LS-PP-CH-79 (STN EN 13342, STN 654835, STN 465735, STN 654836)	
14	Water, aqueous extracts	Chemical oxygen demand - COD _{Mn} - COD _{Cr}	titrimetric determination	LS-PP-CH-5 (STN EN ISO 8467 STN 75 7376, STN ISO 6060)	
		- COD _{Cr}	spectrophotometric method	LS-PP-CH-5 (STN ISO 15705)	
15	Water	BOD ₅	titrimetric determination electrochemical method	LS-PP-CH-6 (STN EN 1899-1, STN EN 1899-2)	
16		Dissolved oxygen	titrimetric determination	STN EN 25813 (LS-PP-CH-20)	
			electrochemical method	STN EN ISO 5814 (LS-PP-CH-20)	
17	Water, aqueous extracts	Chloride	titrimetric determination	STN 75 7482 (LS-PP-CH-11)	
18	Water	Alkalinity		STN EN ISO 9963-1 (LS-PP-CH-16)	
19		Acidity		STN 75 7372 (LS-PP-CH-21)	
20	Water, aqueous extracts	Sulphate	gravimetric method	LS-PP-CH-10 (STN ISO 9280)	
21		Dissolved, suspended and total solids (105 °C, 550 °C)		LS-PP-CH-14 (STN 75 7373 STN 83 0540-3)	
22			Fluoride	potentiometric method using ISE	STN ISO 10359-1 (LS-PP-CH-12)

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Item	Object of test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
23	Water, aqueous extracts, soil, sludge, waste. Fertilizers, soil assistant substances, plantation substrate.	pH	potentiometric method	LS-PP-CH-15 (STN EN ISO 10523, STN EN 12176, STN ISO 10390, STN 46 5735)	
24		Electrolytic conductivity	conductometric determination	LS-PP-CH-17 (STN EN 27888, STN ISO 11265)	
25	Water, aqueous extracts	Hg	AAS-AMA	LS-PP-CH-30 (AMA 254 manual)	
26		As	AAS-HG	LS-PP-CH-31 (STN EN ISO 11969)	
		Sb		LS-PP-CH-32 (EPA 7062)	
		Se		LS-PP-CH-33 (STN ISO 9965)	
		Bi		LS-PP-CH-34 (JMAKO Guideline No.170)	
27		Pb	AAS -ETA	LS-PP-CH-40 (STN EN ISO 15586)	
		Tl		LS-PP-CH-43 (STN EN ISO 15586)	
28		Na	AAS-F	LS-PP-CH-52 (STN ISO 9964-1)	
		K		LS-PP-CH-53 (STN ISO 9964-2)	
29		Cr	AES-ICP	STN EN ISO 11885 (LS-PP-CH-54, LS-PP-CH-67)	
		P		LS-PP-CH-66 (STN EN ISO 11885)	
		Ba		STN EN ISO 11885 (LS-PP-CH-55, LS-PP-CH-67)	
		Be		STN EN ISO 11885 (LS-PP-CH-56, LS-PP-CH-67)	
	V	STN EN ISO 11885 (LS-PP-CH-57, LS-PP-CH-67)			
	Al	STN EN ISO 11885 (LS-PP-CH-58, LS-PP-CH-67)			
	Mo	STN EN ISO 11885 (LS-PP-CH-59, LS-PP-CH-67)			
	B	STN EN ISO 11885 (LS-PP-CH-60, LS-PP-CH-67)			
	Fe	STN EN ISO 11885 (LS-PP-CH-61, LS-PP-CH-67)			
	Mn	STN EN ISO 11885 (LS-PP-CH-62, LS-PP-CH-67)			
	Sn	STN EN ISO 11885 (LS-PP-CH-63, LS-PP-CH-67)			
	Ca	STN EN ISO 11885 (LS-PP-CH-64, LS-PP-CH-67)			
	Mg	STN EN ISO 11885 (LS-PP-CH-65, LS-PP-CH-67)			
	Si	STN EN ISO 11885 (LS-PP-CH-68, LS-PP-CH-67)			
		Ag, Al,As, Cd, Co, Cu, K, Li, Na, Ni, Pb, Sr, Zn		STN EN ISO 11885 (LS-PP-CH-67)	
30	Soil, sludge, waste. Fertilizers, soil assistant substances, plantation substrate.	Water, loss on ignition, annealed substances, ash	gravimetric method	LS-PP-CH-2/1	

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Item	Object of test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
31	Soil, sludge, waste	Hg	AAS-AMA	LS-PP-CH-30 (STN 46 5735, AMA-254 manual)	
32		As	AAS-HG	LS-PP-CH-2/2 (STN EN ISO 11969 STN 46 5735)	
		Sb, Se, Bi		LS-PP-CH-2/26,2/3	
33		Cd	AAS-F	LS-PP-CH-2/7 (STN ISO 11047)	
		Cu		LS-PP-CH-2/8 (STN ISO 11047)	
		Co		LS-PP-CH-2/9 (STN ISO 11047)	
		Ni		LS-PP-CH-2/10 (STN ISO 11047)	
		Pb		LS-PP-CH-2/11 (STN ISO 11047)	
		Zn		LS-PP-CH-2/12 (STN ISO 11047)	
		Na, K		LS-PP-CH-2/18, 2/19	
34		Cr	AES-ICP	LS-PP-CH-2/13 (STN EN ISO 11885, STN ISO 11047)	
		Ba		LS-PP-CH-2/14 (STN EN ISO 11885, STN ISO 11047)	
		Be		LS-PP-CH-2/15 (STN EN ISO 11885, STN ISO 11047)	
		V		LS-PP-CH-2/16 (STN EN ISO 11885, STN ISO 11047)	
		Mo		LS-PP-CH-2/17 (STN EN ISO 11885, STN ISO 11047)	
		Ca, Mg, Mn, Fe, Al, B, Sn, P		LS-PP-CH-2/22, 2/23, 2/21, 2/20, 2/27, 2/15, 2/24, 2/28	
35	Fertilizers, soil assistant substances, plantation substrate.	Hg	AAS-AMA	LS-PP-CH-30 (STN 46 5735, STN 65 4860 AMA-254 manual)	
36		As	AAS- HG	LS-PP-CH-2/2 (STN 465735 STN 65 4860)	
		Se		LS-PP-CH-2/3 (STN ISO 9965, STN 46 5735, STN 65 4860)	
37		Cd	AAS -F	LS-PP-CH-2/7 (STN 465735, STN 65 4860)	
		Co		LS-PP-CH-2/9 (STN ISO 8288, STN 46 5735, STN 65 4860)	
		Cu		LS-PP-CH-2/8 (STN 46 5735, STN 65 4860)	
		K		LS-PP-CH-2/19 (STN ISO 9964-2, STN 465735, STN 654860, STN 654186)	
		Ni		LS-PP-CH-2/10 (STN 465735, STN 654860)	
		Pb		LS-PP-CH-2/11 (STN 465735, STN 654860)	
		Zn		LS-PP-CH-2/12 (STN 465735, STN 654860)	

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Item	Object of test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
38	Fertilizers, soil assistant substances, plantation substrate.	Fe	AES-ICP	LS-PP-CH-2/20 (STN EN ISO 11885, STN 465735, STN 654860)	
		Mn		LS-PP-CH-2/21 (STN EN ISO 11885, STN 465735, STN 654860)	
		Cr		LS-PP-CH-2/13 (STN EN ISO 11885, STN 465735, STN 654860)	
		Ca		LS-PP-CH-2/22 (STN EN ISO 11885, STN 465735, STN 654860)	
		Mg		LS-PP-CH-2/23 (STN EN ISO 11885, STN 465735, STN 654860)	
		Mo		LS-PP-CH-2/17 (STN EN ISO 11885, STN 465735, STN 654860)	
		P		LS-PP-CH-2/28 (STN EN ISO 11885, STN 465735, STN 654860)	
39	Foodstuffs, nutrition supplements, feedstuffs, vegetable materials, additives, cosmetic products and pharmaceutical preparations, packaging and hygienic materials	Hg	AAS-AMA	LS-PP-CH-30 (AMA 254 manual)	
40		As	AAS -HG	LS-PP-CH-2/2 (STN EN 14546, ČSN EN 14546)	
		Se		LS-PP-CH-2/3 (STN EN 14627, ČSN EN 14627)	
41		Cd	AAS -ETA	LS-PP-CH-2/4 (STN EN 14084, ČSN EN 14084)	
		Pb		LS-PP-CH-2/25 (STN EN 14084, ČSN EN 14084)	
		Cr		LS-PP-CH-2/5 (STN EN 14083, ČSN EN 14083)	
	Foodstuffs, nutrition supplements, feedstuffs, vegetable materials	Ni		LS-PP-CH-2/6 (STN EN ISO 15586 ČSN EN ISO 15586 STN EN 13805, ČSN EN 13805)	
42		Cu	AAS -F	LS-PP-CH-2/8 (STN EN 14084, ČSN EN 14084 STN EN 14082, ČSN EN 14082 STN EN ISO 6869 ČSN EN ISO 6869)	
		Zn		LS-PP-CH-2/12 (STN EN 14084, ČSN EN 14084 STN EN 14082, ČSN EN 14082 STN EN ISO 6869, ČSN EN ISO 6869)	
		Na Salt (calculated from sodium)		LS-PP-CH-2/18 (STN EN 13805, ČSN EN 13805 STN EN ISO 6869 ČSN EN ISO 6869, Regulation (EU) No. 1169/2011 as amended)	
		K		LS-PP-CH-2/19 (STN EN 13805, ČSN EN 13805 STN EN ISO 6869 ČSN EN ISO 6869)	
43		Fe	AES-ICP	LS-PP-CH-2/20 (STN EN ISO 11885 ČSN EN ISO 11885 STN EN 13805, ČSN EN 13805 ČSN EN 15510)	
		Mn		LS-PP-CH-2/21 (STN EN ISO 11885 ČSN EN ISO 11885 STN EN 13805, ČSN EN 15510)	

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Item	Object of test		Applied method		The other specification
	Object	Property / Parameter	Principle / Type	Identification	
		Ca		LS-PP-CH-2/22 (STN EN ISO 11885 ČSN EN ISO 11885 STN EN 13805, ČSN EN 13805 ČSN EN 15510)	
43	Foodstuffs, nutrition supplements, feedstuffs, vegetable materials	Mg	AES-ICP	LS-PP-CH-2/23 (STN EN ISO 11885 ČSN EN ISO 11885 STN EN 13805, ČSN EN 13805 ČSN EN 15510)	
		Sn		LS-PP-CH-2/24 (STN EN ISO 11885 ČSN EN ISO 11885 STN EN 13805, ČSN EN 13805)	
		As, Cd, Cu, Ni, Pb, Zn, P		LS-PP-CH-67 (STN EN ISO 11885 ČSN EN ISO 11885 STN EN 13805, ČSN EN 13805 ČSN EN 15510) LS-PP-CH-2/28	
44	Working air	Cd	AAS -F	LS-PP-CH-2/7 (STN ISO 8288, STN EN 14385)	
		Cu		LS-PP-CH-2/8 (STN ISO 8288, STN EN 14385)	
		Ni		LS-PP-CH-2/10 (STN ISO 8288, STN EN 14385)	
		Pb		LS-PP-CH-2/11 (STN ISO 8288, STN EN 14385)	
		Zn		LS-PP-CH-2/12 (STN ISO 8288, STN EN 14385)	
45		Al	AES-ICP	LS-PP-CH-2/27 (STN EN ISO 11885, STN EN 14385)	
		Cr		LS-PP-CH-2/13 (STN EN ISO 11885, STN EN 14385)	
		Mn		LS-PP-CH-2/21 (STN EN ISO 11885, STN EN 14385)	
46	Water, aqueous extracts	Ag, Al, As, B, Cd, Cr, Cu, Ca, Fe, Mg, Mn, Na, Ni, Sb, Se, Pb, Zn	ICP-MS	LS-PP-CH-85 (STN EN ISO 17294-2, Agilent 7900 ICPMS manual, Application note)	
47	Foodstuffs, nutrition supplements, feedstuffs, vegetable materials, cosmetic products and pharmaceutical preparations, packaging and hygienic materials	Cd, Cr, Pb	ICP-MS	LS-PP-CH-85 (STN EN ISO 17294-2, Agilent 7900 ICPMS manual, Application note, STN EN 15763, Regulation (EU) No. 1169/2011 as amended)	
	Foodstuffs, nutrition supplements, feedstuffs, vegetable materials	As, Ni, Se, Cu, Fe, Mn, Zn, Na Salt (calculated from sodium)			

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Sampling:

Item	Object			Sampling method		The other specification
	Sampled object	Property	The location of sampling	Principle	Identification	
1	Surface water	TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29,46 BA- Items No. Fixed scope: 24 NZ- Items No. Fixed scope: 87-91, 93-95, 99-105, 108-115, 126 PN- Items No. Fixed scope: 1-7, 10, 15 RK- Items No. Fixed scope: 2-5, 9, 10	Natural and man-made lakes River, stream Swimming pools and artificial bathing places	Single discrete samples, composite samples/ Mechanical sampling with open sampler, automatic sampler	ŠPP-002 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-4, STN ISO 5667-6, STN ISO 5667-14, STN EN ISO 19458, STN 757715, STN ISO 11731, STN EN ISO 11731-2)	
2	Underground water	TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29,46 BA- Items No. Fixed scope: 24 NZ- Items No. Fixed scope: 87-91, 93-94, 98-104, 106-108, 110-115 PN- Items No. Fixed scope: 1, 3-10, 15 RK- Items No. Fixed scope: 9, 10	Water wells Drill hole	Single discrete samples / manual sampling and sampling with pumps	ŠPP-005 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-11, STN ISO 5667-14, STN ISO 5667-18, STN EN ISO 19458)	
3	Drinking water	TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29,46 BA- Items No. Fixed scope: 24 NZ- Items No. Fixed scope: 51, 87-108, 110-115, 126 PN- Items No. Fixed scope: 1, 3-10, 15 RK- Items No. Fixed scope: 9, 10	Tanks, treatment works, piped distribution systems, tap of the consumer, bottled waters, spring, well	Single discrete samples / mechanical sampling	ŠPP-001 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-5, STN ISO 5667-14, STN EN ISO 19458, STN ISO 11731, STN EN ISO 11731-2)	
4	Waste water	TR- Items No. Fixed scope: 1,2,3,4,6-10,11,12,14-29,46 BA- Items No. Fixed scope: 24 NZ- Items No. Fixed scope: 109, 111-115, 126 RK- Items No. Fixed scope: 2-10, 12-13	Pickers, Sewers, Shafts	Single discrete samples, composite samples / manual sampling and sampling by automatic sampler	ŠPP-003 (STN EN ISO 5667-1, STN EN ISO 5667-3, STN ISO 5667-10, STN ISO 5667-14, STN EN ISO 19458)	

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Flexible Accreditation Scope

The name of the accredited body: **EUROFINS BEL/NOVAMANN s.r.o.**
Komjatická 73, 940 02 Nové Zámky

Flexible Accreditation Scope is on:

http://www.eurofins.sk/media/1075092/flexibilny_rozsah_akreditacie.pdf

Testing laboratory Bratislava, Kollárovo nám. 9, 811 07 Bratislava

Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter /	Principle / Type	Identification	
1	Pharmaceutical base materials, drugs and auxiliary substances; pharmaceutical products – medicaments and food supplements, food additives, chemicals, cosmetic products, confectionery	Content of components	HPLC/DAD HPLC/MS	ŠPP No. 027-F SL, ČL, Ph. Eur. as amended	
2	Products with spirit content, spirit and denaturated spirit	Content of spirit	GC/FID	ŠPP No. 002-E (Agilent Technologies, Application Note, p. 1-4, 2009)	
3	Pharmaceutical base materials, drugs and auxiliary substances; pharmaceutical products – medicaments and food supplements, food additives, chemicals	Content of components	GC/FID GC/MS	ŠPP No. 016-F SL, ČL, Ph. Eur. as amended	
4			TLC	ŠPP No. 015-F SL, ČL, Ph. Eur. as amended	
5			UV/VIS spectrometry	ŠPP No. 017-F SL, ČL, Ph. Eur. as amended	
6			titrimetric determination	ŠPP No. 003-F SL, ČL, Ph. Eur. as amended	
7			dissolution, HPLC/DAD UV/VIS spectrometry	ŠPP No. 008-F + + ŠPP No. 027-F, + ŠPP No. 017-F SL, ČL, Ph. Eur. as amended	
8	Denaturated spirit and concentrate denaturants	Content of denaturing agents	GC/FID	ŠPP No. 003-E (Agilent Technologies, Application Note, p. 1-4, 2009)	
9			HPLC/DAD	ŠPP No. 016-E	
10	Foodstuffs, feedstuffs raw materials, feedstuffs mixtures, cereal and cereal products	Toxins: -aflatoxins B1, B2, G1, G2 -ochratoxin A -deoxynivalenol -zearalenon -T2, HT2 toxin -fumonisin B1, B2	HPLC/MS	ILP-320 (Regulation ES No. 401/2006)	

The personnel responsible for modification and validation of methods

Name and surname, title	Responsible for modification and validation of methods - item No. of Accreditation Scope
Ing. Jana Klvanová, PhD.	1, 7 (HPLC), 9
Ing. Emil Švajdlenka	1, 3, 10
Mgr. Tibor Neuročný	1, 7, 10
Ing. Andrea Vargová	2, 4, 5, 6, 7 (UV/VIS), 8

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Testing laboratory Nové Zámky, Komjatická 73, 940 02 Nové Zámky

Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter /	Principle / Type	Identification	
1	Foodstuffs	Energy value Carbohydrates Available carbohydrates	calculation	ŠPP ORG.M.028 (Klein, A. and coll.: Selected chapters from hygiene of food. Part I., p. 156. Pribela, A.: Food Analysis. Exercises. Bratislava, 1987 MP SR Reg.No.1519/2002-100 MP SR Reg.No. 1482/2009-100)	O/I
2		Nitrogen, protein Total protein	Kjeldahl method	ŠPP INO.M.077 (ČSN ISO 1871, STN 57 0530, art.46,47,116 STN 57 0105-5 STN 57 0111-5 STN 57 0530, art. 50 STN 56 0146, art. 52 STN 56 0188, art. 19 STN 56 0140, art. 30 STN 57 0107, art. 17 STN 56 0512, art. 46 STN 56 0116, art.44 STN ISO 937, STN 57 0153 STN EN ISO 8968-1, STN 58 0120 STN 46 1011-17 ČSN 56 0116-9, ČSN EN 12135)	O/I
		Water protein ratio and fat protein ratio Total protein without collagen	calculation	ŠPP INO.M.169 (MP SR, MZ SR Regulation No. 1895/2004-100 Commission Regulation No. 2004/2002 CODEX STANDARD: 166-1989)	
3	Foodstuffs, Feedstuffs,Cereal	Nitrogen, protein Water protein ratio and fat protein ratio Total protein without collagen	Dumas calculation	ŠPP INO.M.126 (AOAC: 992.15, 990.03, 992.23, 993.13, ICC No.167, STN EN ISO 14891 STN EN ISO 16634-1)	O/I
4	Foodstuffs	Dietary fibre	enzymatic degradation, gravimetric method	ŠPP INO.M.107 (STN 56 0031, AOAC 985.29, 991.42, 993.19 MP SR Reg. No. 1519/2002-100)	O/I
5	Foodstuffs	Fat	extraction/gravimetric method	ŠPP ORG.M.021 (STN 56 0146- 4 STN 57 0107, art. 15 ČSN ISO 1444, ČSN ISO 1443 STN 58 0170-5 STN 57 0104- 4B STN EN ISO 3727-2 STN EN ISO 3727-3 STN 57 0105-4B STN 58 0120, art. 23, 24 STN 58 0113, art. 44 ČSN 58 0703- 6 STN 56 0140, art. 24 ČSN 56 0512-18 ČSN ISO 7302 STN 56 0116, art. 37, 39 ČSN 56 0116-6 ČSN 57 2301, art. 5.6 STN 56 0232, art. 52 ČSN 58 0110, art. 43 STN 56 0290, art. 26 ČSN 56 0290- 6 ČSN 56 0130-6 STN 58 1361, art. 17 ČSN 56 0176-10 ČSN EN ISO 17189 ČSN ISO 8262-1,2 ŠPP ORG.M.081)	O/I
		Fat after hydrolysis Non-fat solids	hydrolysis/extraction gravimetric method		
		Fat in dry matter Non-fat solids Water content in fat-free cheese	calculation		

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6	Foodstuffs, Feedstuffs	Fatty acids	GC-FID	ŠPP ORG.M.047 (STN EN 14013 ČSN EN ISO 12966-2)	Feedstuffs – Oils seeds O/I
7	Foodstuffs, Feedstuffs, feedstuffs mixtures	Sugar Sugar in dry matter	titrimetric determination calculation	ŠPP ORG.M.034 (STN 57 0190, art. 12 STN 56 0240-8 STN 56 0246-18 STN 56 0140, art. 26 STN 56 0146-5 STN 57 0530, art. 51 STN 57 0107, art. 28 STN 58 0120, art. 30 STN 56 0512, art. 43 ČSN 56 0512-15 ČSN 56 0116- 7 ČSN 56 0130-5 ČSN 56 0160-7 STN 570111- 6 MP SR Reg. No. 1497/4/97-100 Ministry of Agriculture Reg. No.124/2001 as amended)	O/I
8		Sugars: - glucose - fructose - sucrose - xylose - maltose - lactose - galactose - xylitol - manitol - sorbitol Sum of sugars	HPLC-RID calculation	ŠPP ORG.M.040 (STN EN 12630 OIV-MA-AS311-03:R2003)	O/I
9		Sodium chloride	argentometric titration potentiometric titration	ŠPP INO.M.011/A (STN 57 0167 STN 56 0116, art. 36 STN 57 0107-12 ČSN ISO 1738 ČSN 58 0703-4 STN 58 0170-7 STN 57 0185 STN 57 0146, art. 22 STN 58 1361, art. 18 STN 56 0232, art. 59 STN 58 0111, art. 13 ČSN 58 8769 ČSN 58 8770 ČSN 56 0243 STN 58 0120, art. 28 STN 570108-12 STN ISO 1841-2 ČSN EN ISO 5943) ŠPP INO.M.011/B (STN ISO 1841-2 796 Titroprocessor – Application methods Metrohm Ltd. ČSN EN ISO 5943)	O/I
10	Foodstuffs Additives	Ash Ash in dry matter	gravimetric method calculation	ŠPP INO.M.036 (STN 57 0185, art. 13 STN 57 0105, art. 27 ČSN 57 0111-7 STN 56 0512-8 STN ISO 2171 ČSN 56 0246-11 STN 56 0146- 6 STN 56 0116-4 STN 56 0240- 9 ČSN ISO 1575 STN ISO 1576 STN ISO 7514 ČSN 58 0703-11	O/I

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	Object	Property / Parameter /	Principle / Type	Identification	
10	Foodstuffs Additives	Ash Ash in dry matter	gravimetric method calculation	STN 58 1302, art. 16 STN 57 0530, art. 53 ČSN 58 0110, art. 36, 37 ČSN ISO 928 STN 56 0115, art. 29 STN 56 0188, art. 18 STN 56 0232, art. 49, 51 STN 57 0107, art. 18 ČSN 56 0130- 4 STN 58 0111, art. 11 STN EN ISO 3593 STN 56 0177 art.28 STN 58 0113 art. 39 ČSN 58 1361, art. 14 STN 57 0190, art. 17 STN 56 0176 OIV-MA-AS2-04 Comission Regulation No.2676/1990/EHS	
			conductometry	STN 56 0160-6)	
11	Foodstuffs	Dry matter	gravimetric method	ŠPP INO.M.035 (STN 56 0116-3 STN 56 0146- 3 STN 56 0146, art. 12 STN 57 0104-3B,C, STN 57 0105-3, 13 STN 57 0530, art. 38, 40, 100, 109, 121 STN 57 0106-3 STN 57 0107, art. 12 STN EN ISO 3727-1 STN EN ISO 662 STN 56 0246-10 STN 58 0170-4 STN 57 0146, art. 18 ČSN 58 0703-5 ČSN 56 0160-3 ČSN 56 0160, art. 38 STN 56 0290-3 STN 560290, art. 27 ČSN 560290-4 STN 560177, art.26 STN 58 0120, art. 21 STN 56 0140, art. 22 STN 56 0512-7 STN 58 1302, art. 15 STN 56 0188, art. 17 ČSN 57 2301, art. 5.3 ČSN 56 0130-3 STN EN ISO 1666 STN ISO 1743 STN 56 0210-5 ČSN 57 0107-3 Comission Regulation No.558/93)	O/I
	Honey, fruit juice, syrup, non-alcoholic drinks, sugars solution, products of fruits and vegetables	Dry matter	refractometry	ŠPP INO.M.035 (STN 56 0240-3 STN 56 0246-10 STN 57 0190)	

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12	Foodstuffs	Moisture	gravimetric method	ŠPP INO.M.035 (STN 58 0113-11 ČSN ISO 11294 STN 56 0115, art. 28 STN ISO 1573 STN ISO 7513 ČSN 58 0110, art. 32 STN 56 0232, art. 45, 46, 47, 48 STN 58 0111, art. 10 ČSN 56 9431, art. 20 STN 58 1361, art. 13 ČSN 57 0111- 3 STN ISO 1442 STN 57 0190, art.11 ČSN 57 6021 ČSN ISO 6731 ČSN ISO 3728 ČSN EN ISO 5534 ČSN ISO 6734 ČSN 58 0100, art.3A ČSN 56 0520)	O/I
13		Polychlorinated Biphenyls - PCB 28 - PCB 52 - PCB 101 - PCB 138 - PCB 153 - PCB 180	GC-ECD	ŠPP ORG.M.006 (STN EN 1528-1, 2, 3, 4 STN EN 15742)	O/I
14		Organochlorine Pesticides (OCP) - aldrine - p,p' - DDT - endosulfane I - endosulfane II - endrine - heptachlorine - alpha-HCH - HCB - beta-HCH - gamma-HCH - delta-HCH - heptachlorepoxyde - p,p' - DDE - dieldrine - p,p' - DDD - endrine aldehyde - endosulfane sulphate - methoxychlorine Sum of OCP	GC-ECD calculation	ŠPP ORG.M.008 (STN EN 1528 STN EN 12393-1, 2, 3 STN EN ISO 14181)	O/I
15		Cholesterol	GC-FID	ŠPP ORG.M.049 (ČSN ISO 18252 AOAC 994.10)	O/I
16	Foodstuffs , Feedstuffs	Polycyclic aromatic hydrocarbons (PAH) - benzo(a)pyrene - benzo(a)anthracene - chrysene - benzo(b)fluoranthene Sum of 4 PAHs	HPLC-FLD calculation	ŠPP ORG.M.025 (STN EN ISO 15302 STN PCEN/TS 16621)	Feedstuffs – Oil seeds O/I

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter /	Principle / Type	Identification	
17	Foodstuffs Feedstuffs raw materials feedstuffs mixtures Cereal and cereal products	Mycotoxins - aflatoxins B ₁ , B ₂ , G ₁ , G ₂ Sum of aflatoxins B ₁ , B ₂ , G ₁ , G ₂ - ochratoxin A - zearalenon	HPLC-FLD calculation	ŠPP ORG.M.039 (AOAC Official Methods Analysis, 1995, Ch.49. STN EN 14123 STN EN 15851) ŠPP ORG.M.045 (STN EN 14133 STN EN ISO 15141-1 STN EN 15835 STN EN 14132 STN EN 15829) ŠPP INO.M.113/B (STN EN 15792)	O/I
18		Mycotoxins - deoxynivalenol - zearalenon - fumonisins FB ₁ + FB ₂	ELISA	ŠPP INO.M.108 ŠPP INO.M.113/A ŠPP INO.M.114	O/I
19		Allergens -gliadine, glutene -soy protein -total milk allergen	ELISA	ŠPP INO.M.127/A ŠPP INO.M.127/B ŠPP INO.M.127/C	O/I
20	Foodstuffs	Additives - benzoic acid - sorbic acid - parahydroxybenzoic acid - caffeine - acesulfame K - aspartame - saccharine Sum of preserving agents Caffeine in dry matter Potassium sorbate Sodium benzoate	HPLC- UV VIS HPLC-DAD calculation	ŠPP ORG.M.007 (Kocourek, V.: Methods for the Determination of Foreign Substances in Food, Praha 1992, p.63 OIV-MA-AS313-20:R2006) ŠPP ORG.M.010 (STN EN 12856 ČSN P CEN/TS 15606)	O/I
21		Synthetic dyes - E 102 - E 104 - E 110 - E 122 - E 123 - E 124 - E 127 - E 128 - E 129 - E 131 - E 132 - E 133 - E 142 - E 151 - E 155 Sum of synthetic dyes	TLC	ŠPP ORG.M.016 (MP SR Bulletin, 9.1.2004 Annex No. 1/2008)	O/I
22			HPLC-DAD	ŠPP ORG.M.038 (MP SR Bulletin, 9.1.2004 Annex No. 1/2008)	
			calculation		
23		Water activity	apparatus Novasina	ŠPP INO.M.102 (STN 56 0030-5B ČSN ISO 21807)	O/I

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24	Foodstuffs	Acidity	titrimetric determination	ŠPP INO.M.034 (STN 56 0240-5 STN 56 0246-13 ČSN ISO 750 ČSN EN 12147 STN 57 0530, art. 58, 87, 103, 113, 124 STN 57 0105-8 ČSN 56 0160- 4 ČSN 57 0111-8 STN 58 0170-6 STN 57 0146, art. 23 ČSN 56 0512-9 STN 56 0115, art. 31 ČSN 56 0245, art.20 ČSN 57 0106, art.24 STN 56 0188, art. 20 STN 56 0140, art. 29 STN 56 0290, art. 35 STN 56 0116, art. 45, 46,47 ČSN 56 0130-7 STN 58 1361, art. 16 ČSN 58 0703-9, 10 STN 57 0107, art. 21 STN 57 0190, art. 15 ČSN 56 0176-11 STN 56 0177 art. 30 STN 56 0216- 5 STN 58 0111, art. 8 Commission Regulation (EC) No. 2676/1990, OIV-MA-A-S313-01)	O/I
25	Foodstuffs Additives	pH	potentiometric method	ŠPP INO.M.034 (ČSN EN 1132 STN 56 0216- 5 ČSN ISO 2917 STN 570107, art. 22 STN 57 0166 STN ISO 11289 ČSN 56 0160-4 STN 56 0186-7 STN 58 0111, art. 9 ČSN 56 0176-9 STN 57 0530, art. 59 OIV-MA-A-S313-01 Commission Regulation (EC) No. 2676/90)	O/I
26	Foodstuffs Feedstuffs Cereals, pulses, oilseeds	Starch	polarimetry	ŠPP INO.M.084 (STN 461011- 37 STN EN ISO 10520 MP SR Regulation No.1497/4/1997-100. Annex No. 3, part 11, as amended, Commission Regulation No. 152/2009, Annex No.3 as amended)	O/I
27	Foodstuffs	Impurities and contaminants	gravimetric method	ŠPP INO.M.085 (ČSN 57 2301, art. 5.5 ČSN EN ISO 927 ČSN 58 0110, art.25 STN 58 0112- 2, 3, 4 ČSN 56 9431, art.18 STN 56 0246, art.40, 41, 42 STN 56 0232, art. 41 STN EN ISO 663 ČSN 56 0520)	O/I
28	Foodstuffs	Mineral impurities (sand) Mineral impurities in dry matter	gravimetric method	ŠPP INO.M.069 (STN 56 0246 -12 STN 58 1302, art. 17 ČSN 58 0703-1 ČSN ISO 930 STN 56 0115, art. 30 STN 56 0146, art. 15	O/I

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Item	Object of the test		Applied method		The other specification
	Object	Property / Parameter /	Principle / Type	Identification	
28	Foodstuffs	Mineral impurities (sand) Mineral impurities in dry matter	gravimetric method	STN 56 0232, art. 50 ČSN ISO 1577 STN 56 0116- 4 ČSN 56 9431, art.21 ČSN 56 0130- 4 STN 58 0113, art. 41 STN 58 0111, art. 11 STN EN ISO 3593 ČSN 58 0110, art.38 ČSN 56 0176-6)	O/I
29	Milk and dairy products	Aflatoxin M1	HPLC-FLD	ŠPP ORG.M.044 (AOAC 986.16, AOAC 2000.08, STN EN ISO 14501)	O/I
30	Foodstuffs	Fat Fat in dry matter Non-fat solids Water content in fat free dry matter	NMR calculation	ŠPP INO.M.133 (Manual CEM SMART Trac Rapid Fat Analysis)	O/I
31		Dry matter Moisture	microwave radiation, gravimetric method	ŠPP INO.M.132 (Manual CEM SMART Trac analyzátor)	except dried and dehydrated products O/I
32	Meat products	Poultry protein	ELISA	ŠPP INO.M.140 (Tepnel kit manual)	O/I
33	Wine	Glucose Fructose Glucose+fructose	enzymatic / spectrophotometric method calculation	ŠPP INO.M.161 (OIV-MA-AS311-02, Commission Regulation (EC) No. 2676/90, NOACK Instructions)	O/I
34	Fish and fish products	Total volatile basic nitrogen (ABVT)	titrimetric determination	ŠPP INO.M.167 (Commission Regulation (EC) No. 2074/2005 as amended)	O/I
35	Foodstuffs	Water content by Karl Fischer titration	titrimetric determination	ŠPP INO.M.168 (Karl-Fischer Titrator Operating Instructions)	O/I
36		Density	pycnometry	ŠPP INO.M.149 (STN 57 0530, art. 62, STN 56 0246, art. 57, Commission Regulation (EC) No. 2676/90, OIV-MA-A-S2-01A)	O/I
37	Working air	Organic solvents: - benzene - toluene - ethylbenzene - xylene - styrene - isopropyl benzene - trimethyl benzene - dichloromethane - trichloromethane - tetrachloromethane - dichloroethane - trichlorethylene - tetrachlorethylene - acetone - butanone - isobutylmethylketone - methylacetate - ethylacetate - n-butylacetate - iso-butylacetate - n-hexane - cyclohexane - n-heptane - diethylether - methylalcohol - ethylalcohol - n-propylalcohol - isopropylalcohol - n-butylalcohol - iso-butylalcohol - cyclohexanone	GC-FID	ŠPP PRA.M.007 (STN P CEN/TS 13649 STN EN 482 STN EN 689 STN EN ISO 16017-1 STN ISO 8756)	

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38		Glycols: - ethylene glycol - propylene glycol - 1,2 butandiol - 1,3 butandiol - diethylene glycol - 1-methoxy-2-propanol - propylene glycol monomethyl ether acetate - 2-propoxyethanol - propylene glycol butyl ether, - ethylene glycol butyl ether - 2-butoxyethyl acetate - 1-phenoxy-2-propanol	GC-FID	ŠPP PRA.M.031 (STN EN 482, STN EN 689 NIOSH Manual Method 5523 STN P CEN/TS 13649)	
39		Anions (Cl ⁻ , F ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ , Br ⁻)	IC	ŠPP PRA.M.032 (STN EN 482, STN EN 689 OSHA ID-113)	
40	Foodstuffs, Feedstuffs	Peroxide number	potenciometry titration	ŠPP ORG.M.023 (ČSN EN ISO 27107 STN EN ISO 27107)	
41	Spirits	Volatile substance -higher alcohols -acetaldehyde -ethyl acetate Volatile substance	GC-FID calculation	ŠPP ORG.M.013 (Commission Regulation No.2870/2000 as amended)	

The personnel responsible for modification and validation of methods

Name and surname, title	Responsible for modification and validation of methods - item No. of Accreditation Scope
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RNDr. Renata Fazekašová, PhD.	6, 8, 13, 14, 16, 17, 20, 21, 22, 29, 41
Ing. Henrieta Bóriková	15, 18, 19, 32, 37, 38
Mgr. Andrea Bereková	39

The personnel responsible for the opinions and interpretation

Name and surname, title	Responsible for the opinions and interpretation - - item No. of Accreditation Scope
Ing. Ladislav Nagy	1 - 36
Ing. Narcisa Varagyová	1 - 36
