

**The Appendix is an integral part of
Certificate of Accreditation No. 235/2017 of 21/04/2017**

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

EKOCESTRUM OVALAB, s.r.o.
Martinovská 3248/166, 723 08 Ostrava – Martinov

The Laboratory is qualified to update standards identifying the test procedures.

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex.

Updated list of activities provided within the flexible scope of accreditation is available in the laboratory from the Laboratory Manager.

The Laboratory provides expert opinions and interprets test results.

Tests:

Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
1	Determination of elements (Al, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sn, Ti, V, Zn) ²⁸⁾ by ICP-OES method	SOP A-01-1 (ČSN 56 0065, manual ICP-OES ACROS SPECTRO)	Food, food supplements, feedstuffs, premixes and agricultural products, biological materials
2	Determination of elements (Al, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sn, Ti, V, Zn) ²⁸⁾ by ICP-OES method	SOP A-01-2 (EP, FCC, manual ICP-OES ACROS SPECTRO)	Pharmaceutical products and raw materials, chemicals
3	Determination of elements (Al, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sn, Ti, V, Zn) ²⁸⁾ by ICP-OES method	SOP A-01-3 (ČSN EN ISO 11885, manual ICP-OES ACROS SPECTRO)	Drinking water, surface, recreational and hot water, waste water, mineralizates
4	Determination of Hg by AMA-254 atomic absorption spectrometer	SOP A-02-1 (Operating Instructions – AMA 254, ALTEC s.r.o.)	Food, food supplements, feedstuffs, premixes and agricultural products, biological materials
5	Determination of Hg by AMA-254 atomic absorption spectrometer	SOP A-02-2 (ČSN 75 7440, Operating Instructions – AMA 254, ALTEC s.r.o.)	Drinking, surface, recreational and hot water, waste water
6	Determination of As and Se ²⁸⁾ by hydride generation AAS method	SOP A-03-1 (ČSN EN 14546, manual to AAS A-100 by Perkin-Elmer, MHS-20)	Food, food supplements, biological materials, feedstuffs
7	Determination of As and Se ²⁸⁾ by hydride generation AAS method	SOP A-03-2 (ČSN ISO 17378-2, ČSN ISO/TS 17379-1, manual to AAS A-100 OES-ICP by Perkin-Elmer, MHS-20)	Drinking, surface, recreational and hot water, waste water
8	Determination of potential of hydrogen (pH) (by potentiometric method)	SOP A-14 (ČSN ISO 10523)	Drinking, surface, recreational and hot water, waste water
9	Determination of electrical conductivity of water (by conductometry)	SOP A-15 (ČSN EN 27888)	Drinking, surface, recreational and hot water, waste water
10	Determination of ANC (by titration)	SOP A-16 (ČSN EN ISO 9963-1)	Drinking, surface, recreational and hot water, waste water
11	Determination of dissolved solids in water (by gravimetry)	SOP A-17 (ČSN EN 872)	Drinking, surface, recreational and hot water, waste water
12	Determination of chlorides in water (by titration)	SOP A-18 (ČSN ISO 9297)	Drinking, surface, recreational and hot water, waste water
13	Determination of sulfates in water (by gravimetry)	SOP A-19 (ČSN ISO 9280)	Drinking, surface, recreational and hot water, waste water
14	Determination of nitrite in water (by spectrophotometry)	SOP A-21 (ČSN EN 26 777)	Drinking, surface, recreational and hot water, waste water
15	Determination of ammonium in water (by spectrophotometry)	SOP A-22 (ČSN ISO 7150-1)	Drinking, surface, recreational and hot water, waste water
16	Determination of COD-Mn in water (by titration)	SOP A-23 (ČSN EN ISO 8467)	Drinking water
17*	Determination of chlorine in water (by spectrophotometry) using the Hanna set	SOP A-24 (ČSN ISO 7393-2, Hanna manual)	Drinking, surface, recreational and hot water
18-23	Reserved		
24	Determination of peroxide value (by titration)	SOP C-03 (ČSN ISO 3960, Davídek J., Laboratory Manual of Food Analysis, 1981)	Food, food supplements, feedstuffs, premixes and agricultural products

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Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
25	Measurement of pH (by potentiometry)	SOP C-04 (ČSN ISO 1842, ČSN 57 0107, ČSN 58 0703-9, ČSN 57 0530, ČSN 57 0106, Davídek J., Laboratory Manual of Food Analysis, 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
26	Determination of chloride content by silver nitrate titration and sodium chloride by calculation	SOP C-05 (ČSN ISO 1841-2, ČSN EN 12 133, ČSN EN ISO 5943)	Food, food supplements, feedstuffs, premixes and agricultural products
27	Determination of Kjeldahl nitrogen and nitrogenous substances, proteins, energy value, meat content and pure myosin content by calculation.	SOP C-06 (ČSN ISO 1871, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
28	Determination of the content of amino acids, sweeteners and vitamins ¹⁾ by perchloric acid anhydrous titration in individual pure substances	SOP C-93 (ACS 10. Issue, EP 6.0, USP 35)	Pharmaceutical products and raw materials, premixes, pure substances
29-34	Reserved		
35	Determination of the content of water, dry matter and weight loss (by gravimetry)	SOP C-07 (ČSN 56 0116-3, ČSN 57 0530, ČSN 58 0170-4, ČSN 56 0198, ČSN 58 0120, ČSN 56 8197, ČSN 58 0110, ČSN 56 0140, ČSN 58 1361, ČSN 56 0115, ČSN 56 8193, ČSN ISO 6734, ČSN ISO 7703, ČSN ISO 7702, ČSN 58 0114, ČSN 56 0290-4, ČSN EN ISO 712, ČSN 46 7092-3, ČSN EN ISO 5537, ČSN 57 0105-3, ČSN 57 0105-13, ČSN 56 0520-6, ČSN 58 8757, ČSN 56 8198, ČSN EN ISO 665, ČSN 46 7092-3, ČSN 56 0146, ČSN 56 0146-3, ČSN EN ISO 3727, ČSN 56 0160-3, ČSN 56 0188, ČSN 57 6021, ČSN ISO 1573, ČSN ISO 7513, ČSN ISO 11294, ČSN EN ISO 1666, ČSN EN ISO 5534, ČSN 58 0703-5, ČSN EN ISO 6731, ČSN 56 0130-3, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
36	Determination of fat content after acid hydrolysis (by gravimetry)	SOP C-09-1 (Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
37	Determination of fat content by direct extraction (by gravimetry)	SOP C-09-2 (ČSN ISO 1444, ČSN 46 7092-7, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
38	Determination of saccharide ²⁾ by iodometry	SOP C-11 (ČSN 56 0512-15, ČSN 56 0116-7, ČSN 56 0130-5, ČSN 56 0146-5, ČSN 57 0530, ČSN 57 0107, ČSN 57 0106, ČSN 56 0140, ČSN 57 0190, ČSN 46 7092-22, ČSN 56 0246-18, ČSN 46 7092-23, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products

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Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
39	Determination of titrable acidity ³⁾	SOP C-12 (ČSN 57 0190, ČSN ISO 750, ČSN EN 12147, ČSN 58 0703-10, ČSN 57 0105-8, ČSN 57 0530, ČSN 57 0107, ČSN 56 0198, ČSN EN ISO 660, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Bee honey, food, feedstuffs
40	Determination of ethanol by pycnometric method	SOP C-15 (ČSN 56 0210-4, ČSN 56 0198, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Alcoholic and non-alcoholic beverages, aromatic and flavouring substances
41	Determination of density by vibration densitometer	SOP C-37-1 (ČSN 56 0198, EP 6.0)	Fruit and vegetable juices, beverages, aromatic and flavouring substances, milk and milk products, oils
42	Determination of density by vibration densitometer	SOP C-37-2 (EP 6.0)	Pure substances, pharmaceutical products and raw materials
43	Determination of 4-hydroxyproline by spectrophotometry	SOP C-17 (ISO 3496)	Meat and meat products, food
44-49	Reserved		
50	Determination of sulphur dioxide ²⁹⁾ by iodometry	SOP C-18 (ČSN ISO 5523, ČSN 56 0246-22, ČSN 56 0216-7, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Wine, fruit and vegetable products, canned products and semi-finished products made of fruit and vegetables, food
51	Determination of ash, sand and acid-insoluble part (gravimetry)	SOP C-22 (ČSN 56 0116-4, ČSN 56 0130-4, ČSN 56 0160-6, ČSN 58 0703-11, ČSN ISO 928, ČSN ISO 763, ČSN EN 1135, ČSN 56 0146-6, ČSN 46 7092-9, ČSN 56 0216, ČSN ISO 1575, ČSN ISO 7514, ČSN 58 1361, ČSN 56 0232, ČSN 56 0246-12, ČSN 56 0115, ČSN 57 0190, ČSN ISO 1577, ČSN 56 0290, ČSN 58 0113, ČSN 58 1302, ČSN 58 0110, EP, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
52	Determination of dyes ⁵⁾ by HPLC/DAD method	SOP C-24 (Davídek J. et al.: Laboratory Manual of Food Analysis 1981, Food standard agency collaborative trial method 145A, 145B)	Food, food supplements, premixes
53	Determination of iodine, iodides and iodates ⁶⁾ by titration (iodometry)	SOP C-27 (ČSN 58 0111, ACS 10. Issue, Regulation No. 124/2001 Coll.)	Food, food supplements, feedstuffs, premixes and agricultural products, pure substances, beverages
54	Determination of fibre (by gravimetry)	SOP C-29 (ČSN EN ISO 6865)	Food, food supplements, feedstuffs, premixes and agricultural products
55	Determination of starch according to Ewers (by polarimetry)	SOP C-34 (ČSN 56 0512-16, ČSN 58 0120, ČSN 46 7092-21, Davídek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, feedstuffs, premixes and agricultural products
56	Volumetric determination of water by Karl Fischer method	SOP C-43-1 (ČSN 58 8759, ČSN 56 0146, EP 6.0)	Food, food supplements, feedstuffs, premixes and agricultural products
57	Volumetric determination of water by Karl Fischer method	SOP C-43-2 (ACS 10. Issue, EP 6.0, USP 35, FCC 9. Issue)	Pure substances, pharmaceutical products and raw materials

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Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
58	Determination of nitrate content by Merckquant kit (by spectrophotometry)	SOP C-47 (Merck Application notes)	Fruit and vegetable products, canned products and semi-finished products made of fruit and vegetables, food and agricultural products
59	Determination of food allergens ⁷⁾ by ELISA method	SOP C- 52 (R-Biofarm Application notes)	Food, food supplements, premixes
60	Determination of organic fatty acids ⁸⁾ by GC/FID method	SOP C-75 (ČSN EN ISO 12966-1, ČSN ISO 5508)	Food, food supplements, feedstuffs, premixes and agricultural products
61	Determination of mycotoxins ⁹⁾ by HPLC/FLD, DAD method	SOP C-76 (Vicom Application notes)	Food, food supplements, feedstuffs, premixes and agricultural products
62	Reserved		
63	Determination of dietary fibre by enzymatic method	SOP C-83 (AOAC 991.43, Merck and Megazyme Application notes)	Food, food supplements, premixes and agricultural products
64	Reserved		
65	Determination of specified substances ¹¹⁾ by HPLC/RID method	SOP C-85 (Davidek J. et al.: Laboratory Manual of Food Analysis, 1981, Application notes of Restek, Tessek, EP 8.0)	Food, food supplements, feedstuffs, premixes and agricultural products
66-69	Reserved		
70	Determination of non-volatile substances ¹²⁾ by HPLC/ELSD method	SOP C-92 (Validation of an analytical method for the simultaneous determination of nine intense sweeteners by HPLC-ELSD, Report on the final collaborative trial, institute for Reference Materials and Measurements, Geel, BE, Shimadzu Application notes)	Food, food supplements, premixes and agricultural products
71	Identification of substances ¹³⁾ by TLC method	SOP C-96 (EP 6.0, Dietary Supplements Compendium, Davidek J. et al.: Laboratory Manual of Food Analysis 1981)	Food, food supplements, premixes
72	Determination of the content of morphine by HPLC/UV method	SOP C-97-1 (EP 6.0, Separation and determination of opium alkaloids by HPLC. Y.Nobuhara, et al. Journal of Chromatography 190 (1980)	Poppy and poppy straw
73	Determination of the content of glutamic acid and glutamates by HPLC/UV method	SOP C-97-2 (ČSN 46 7092-25, Wei Z. et al., Journal of Chinese Chemical Society, 2011,58,509-515)	Food, dehydrated products, flavouring agents
74	Determination of specified organic acids ¹⁴⁾ by HPLC/UV method	SOP C-97-3 (TOSOH, RESTEK Application notes)	Food, feedstuffs, food supplements
75	Determination of the content of free and total amino acids ¹⁵⁾ by HPLC/UV method	SOP C-97-4 (ČSN 46 7092-25, ČSN EN ISO 13 903, ČSN EN ISO 17 180, Wei Z. et al., Journal of Chinese Chemical Society, 2011, 58, 509-515)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
76	Determination of pantothenic acid and pantothenates by HPLC/UV method	SOP C-97-5 (Wei Z. et al., Journal of Chinese Chemical Society, 2011, 58, 509-515, Hudson T. S. Subramanian S., Allen R. J.: "Determination Of Pantothenic acid, Biotin and Vitamin B ₁₂ in Nutritional Products". Journal of Association of Analytical Chemists 1984)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
77	Determination of taurine content by HPLC/UV method	SOP C-97-6 (Spitze A. R. et al., J. Am. Physiol. A. Anim. Nutr. 87, 2003, 251-262).	Food, food supplements, feedstuffs, premixes and agricultural products, beverages

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Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
78	Determination of rutin, hesperidin, diosmin and chlorogenic acid by HPLC/UV method	SOP C-97-7 (EP 6.0, Šatinský D. et al., Determination of Rutin, Troxerutin, Diosmin and Hesperidin in Food Supplements Using Fused-Core Column Technology, Food Anal. Methods, 2013, 6: 1353-1360)	Food, food supplements, premixes and beverages
79	Determination of curcumin (E100) by HPLC/UV method	SOP C-97-8 (EP 6.0, Nagappan K. V.. et al.: Liquid Chromatography Method for the Simultaneous Determination of Curcumin and Piperin In Food Products using DAD: Asian J. Research Chem. 2(2): April.-June, 2009)	Food, food supplements, premixes and beverages
80	Determination of coumarin, vanillin and ethylvanillin by HPLC/UV/VIS method	SOP C-97-9 (Agilent Application Notes)	Food, food supplements, premixes, beverages
81	Enumeration of <i>Escherichia coli</i> on chromogenic agar	SOP M-01 (ČSN ISO 16649-2)	Food, food supplements, feedstuffs
82	Enumeration of sulfite-reducing clostridia by plate method	SOP M-02 (ČSN EN ISO 7937)	Food, food supplements, feedstuffs
83	Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i>	SOP M-03-1 (ČSN EN ISO 11290-1, ČSN EN ISO 11290-2)	Food, food supplements, feedstuffs, smear
84	Detection of <i>Listeria monocytogenes</i> by mini VIDAS	SOP M-03-2 (Biomérieux Application Notes)	Food, food supplements, feedstuffs, smear
85	Horizontal method for the detection and enumeration of <i>Salmonella</i>	SOP M-04-1 (ČSN EN ISO 6579)	Food, food supplements, feedstuffs, smear
86	Detection of <i>Salmonella spp.</i> by mini VIDAS	SOP M-04-2 (Biomérieux Application Notes)	Food, food supplements, feedstuffs, smear
87	Horizontal method for the enumeration of yeasts and moulds in products with water activity less than or equal to 0.95	SOP M-05-1 (ČSN ISO 21 527-1)	Food, food supplements, feedstuffs
88	Horizontal method for the enumeration of yeasts and moulds in products with water activity more than 0.95	SOP M-05-2 (ČSN ISO 21 527-2)	Food, food supplements, feedstuffs
89	Enumeration of coliforms by colony count technique	SOP M-06 (ČSN ISO 4832)	Food, food supplements, feedstuffs
90	Enumeration of microorganisms – Colony count technique at 30 Degrees C	SOP M-07 (ČSN EN ISO 4833-1, ČSN EN ISO 4833-2)	Food, food supplements, feedstuffs
91	Enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species)	SOP M-08 (ČSN EN ISO 6888-1, ČSN EN ISO 6888-2)	Food, food supplements, feedstuffs
92	Enumeration of presumptive <i>Bacillus cereus</i> by colony count technique	SOP M-09 (ČSN EN ISO 7932)	Food, food supplements, feedstuffs
93	Enumeration of <i>Enterobacteriaceae</i> by colony count technique	SOP M-10 (ČSN ISO 21 528-2)	Food, food supplements, feedstuffs
94	Enumeration of psychrotrophic microorganisms colony-forming units	SOP M-11 (ČSN ISO 17 410, ČSN ISO 6730)	Food, food supplements, feedstuffs
95	Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration method	SOP M-16 (ČSN EN ISO 9308-1)	Drinking, surface and hot water
96	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP M-17 (ČSN EN ISO 7899-2)	Drinking, surface and hot water
97	Detection and enumeration of <i>Clostridium perfringens</i> , including spores, by membrane filtration method	SOP M-18 (Regulation No. 252/2004 Coll., as amended)	Drinking water

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Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
98	Enumeration of culturable microorganisms	SOP M-19 (ČSN EN ISO 6222)	Drinking, recreational and hot water
99	Enumeration of <i>Staphylococcus aureus</i> by membrane filtration method	SOP M-26 (ČSN EN ISO 6888-1)	Recreational water
100	Reserved		
101	Detection of <i>Candida albicans</i> according to ČL by culture method	SOP M-72 (ČL cl. 2.6.13)	Pharmaceutical products and raw materials, food supplements and cosmetics
102	Detection of <i>Escherichia coli</i> according to ČL by culture method	SOP M-65-1 (ČL cl. 2.6.13)	Pharmaceutical products and raw materials, food supplements and cosmetics
103	Enumeration of <i>Escherichia coli</i> according to ČL by culture method	SOP M-65-2 (ČL cl. 2.6.13)	Pharmaceutical products and raw materials, food supplements and cosmetics
104	Detection of <i>Pseudomonas aeruginosa</i> according to ČL by culture method	SOP M-67 (ČL cl. 2.6.13)	Pharmaceutical products and raw materials, food supplements and cosmetics
105	Detection of <i>Staphylococcus aureus</i> according to ČL by culture method	SOP M-68 (ČL cl. 2.6.13)	Pharmaceutical products and raw materials, food supplements and cosmetics
106	Total viable count of aerobes according to ČL by culture method	SOP M-69 (ČL cl. 2.6.13)	Pharmaceutical products and raw materials, food supplements and cosmetics
107	Determination of vitamins A and E ³⁰⁾ by HPLC/FLD method	SOP O-03 (Davídek J., Laboratory Manual of Food Analysis, 1981, Application Notes of Shimadzu, Restek)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
108	Determination of preservatives ¹⁷⁾ by HPLC/UV-VIS method	SOP O-06 (Davídek J., Laboratory Manual of Food Analysis, 1981, Application Notes of Shimadzu, Restek)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
109	Determination of vitamin C ³¹⁾ by HPLC/UV/VIS method	SOP O-07 (ČSN EN 14130, EP 7.0, Shimadzu Application Notes)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
110	Determination of vitamins B ₁ , B ₂ , B ₆ ³²⁾ by HPLC/FLD method	SOP O-08 (ČSN EN 14 122, ČSN EN 14152, Shimadzu Application Notes)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
111	Determination of artificial sweeteners ¹⁸⁾ , caffeine and theobromine by HPLC/UV/VIS method	SOP O-09 (ČSN EN 12 856, Davídek J., Laboratory Manual of Food Analysis, 1981, Shimadzu Application Notes)	Food, food supplements, premixes and agricultural products, beverages
112	Determination of sterols ¹⁹⁾ by GC/FID method	SOP O-10 (EP 6.0, Davídek J., Laboratory Manual of Food Analysis, 1981)	Food, food supplements
113	Determination of vitamin B12 by HPLC/UV-VIS method	SOP O-11 (EP 6.0)	food supplements, premixes
114	Determination of vitamin B3 (niacin and nicotinamide) by HPLC/UV/VIS method and calculation of their sum	SOP O-13 (La Roche, Shimadzu Application Notes)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
115	Determination of carotenoids ²⁰⁾ by HPLC/UV-VIS method	SOP O-14 (ČSN EN 12823-2, Shimadzu Application Notes)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
116-120	Reserved		

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Ordinal number	Test procedure/method name	Test procedure/method identification	Tested object
121	Determination of vitamins ²¹⁾ by ELISA method	SOP O-17 (R-Biofarm, Immunolab Application Notes)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
122	Determination of coenzyme Q10 by HPLC/UV-VIS method	SOP O-24 (Dietary Supplements Compendium)	Food, food supplements, beverages
123	Determination of folic acid by HPLC/UV-VIS method	SOP O-21 (EP 6.0)	Food supplements, premixes
124	Determination of vitamin D ²²⁾ by HPLC/UV-VIS method	SOP O-26 (ČSN EN 12521)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
125	Determination of terpenes ²³⁾ by GC/FID method	SOP O-16 (Lachenmeier D., Absinthe – A Review: Critical Reviews in Food Science and Nutrition, 46:365-77(2006), Czech Pharmacopoeia as amended)	Food, spirits
126	Determination of alcohols ²⁴⁾ by GC/FID method	SOP O-18 (Davidek J., Laboratory Manual of Food Analysis, 1981, (Commission Regulation (EC) No. 2870/2000)	Sweets, spirits
127	Determination of vitamin K ²⁵⁾ by HPLC/UV-VIS and HPLC/FLD method	SOP O-44 (Dietary Supplements Compendium, Haroon, Y: Chemical reduction system for the detection of phylloquinone and menaquinones,; J. Chrom.384 (1987), 383-389)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
128	Determination of antioxidants ²⁶⁾ by HPLC/UV/VIS method	SOP O-19 (YMC Application Notes)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages
129-134	Reserved		
135	Determination of mycotoxins ²⁷⁾ by ELISA method	SOP O-57 (Application Notes of R-Biofarm)	Food, food supplements, feedstuffs, premixes and agricultural products, beverages

*¹⁾ Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

Annex:

Flexible scope of accreditation

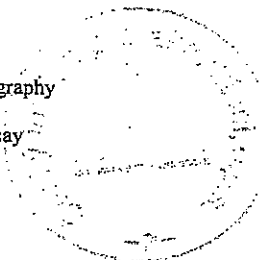
Ordinal numbers of tests
1-3, 28, 38, 43, 52, 59-61, 65, 70, 71, 74, 75, 108, 111, 112, 115, 121, 124 - 128, 135

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed.

The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

Used abbreviations:

SOP	Standard Operating Procedure
ICP-OES	Inductively Coupled Plasma Optical Emission Spectrometer
EP	European Pharmacopoeia
FCC	Food Chemicals Codex
AMA-254	Advanced Mercury Analyser
AAS	Atomic Absorption Spectrometry
ANC	Acid Neutralizing Capacity
ACS	American Chemical Society
USP	United States Pharmacopoeia
HPLC	High-Performance Liquid Chromatography
DAD	Diode Array Detector
ELISA	Enzyme-Linked ImmunoSorbent Assay
GC	Gas Chromatography
FID	Flame Ionization Detector



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SAFA	Saturated Fatty Acids
MUFA	Monounsaturated Fatty Acids
PUFA	Polyunsaturated Fatty Acids
TFA	Trans Fatty Acids
FLD	Fluorescence Detector
ITP	Isotachopheresis
Coll.	Collection
RID	Refractometric Detector
ELSD	Evaporative Light Scattering Detector
TLC	Thin-Layer Chromatography
UV	Ultraviolet Detector
VIS	Visible Region Detector
CL	Czech Pharmacopoeia as amended

Explanations:

Determined substances¹⁾ – glutamine, carnitine, carnitine chloride, carnitine tartrate, nicotinamide, niacin, calcium pantothenate, creatine anhydrous, creatine monohydrate, aspartame, sodium glutamate, thiamine, thiamine hydrochloride, betaine, betaine hydrochloride, pyridoxine, alanine, arginine, glycine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, tryptophan, valine, serine, tyrosine, threonine, histidine, lysine hydrochloride, pyridoxine hydrochloride, asparagine monohydrate

Saccharides²⁾ – reducing sugars, non-reducing sugars, sugars after inversion, maltose, lactose, saccharose, glucose, fructose

Titrate acidity³⁾ – malic, oxalic, citric, tartaric, lactic, acetic, sulphuric, hydrochloric, formic, phosphoric acid, SH^o, mmolH⁺, ml NaOH by calculation from measured values

Dyes⁵⁾ – Allura red, Amaranth, Azorubine, Brilliant black, Brilliant blue FCF, Red 2G, Erythrosine, Quinoline yellow, Indigotin, Patent blue V, Ponceau 4R, Yellow SY, Tartrazine, Cochineal (Carminic acid), Sudan I, Sudan II, Sudan III, Sudan IV, Para Red

Iodine, iodide and iodate⁶⁾ – potassium iodide, potassium iodate, sodium iodate and calcium iodate by calculation from measured values

Allergen⁷⁾ – gliadin, gluten

Organic fatty acids⁸⁾ – SAFA - butanoic acids (C4:0), hexanoic acid (C6:0), octanoic acid (C8:0), n-decanoic acid (C10:0), undecanoic acid (C11:0), dodecanoic acid (C12:0), tridecanoic acid (C13:0), tetradecanoic acid (C14:0), pentadecanoic acid (C15:0), hexadecanoic acid (C16:0), heptadecanoic acid (C17:0), octadecanoic acid (C18:0), eicosanoic acid (C20:0), heneicosanoic acid (C21:0), docosanoic acid (C22:0), tricosanoic acid (C23:0), tetracosanoic acid (C24:0), MUFA - tetradecenoic acid (C14:1), cis-10-pentadecenoic acid (C15:1), hexadecenoic acid (C16:1), cis-10-heptadecenoic acid (C17:1), octadecenoic acid (C18:1n9c), cis-11-eicosenoic acid (C20:1), docosenoic acid (C22:1n9), tetracosenoic acid (C24:1n9), PUFA - octadecadienoic acid (C18:2n6c), octadecatrienoic acid (C18:3n6), octadecatrienoic acid (C18:3n3), eicosadienoic acid (C20:2), cis-8,11,14-eicosatrienoic acid (C20:3n6), cis-11,14,17-eicosatrienoic acid (C20:3n3), eicosatetraenoic acid (C20:4n6), docosadienoic acid (C22:2), eicosapentaenoic acid (C20:5n3), docosahexaenoic acid (C22:6n3), TFA - trans-9-octadecenoic (C18:1n9t), octadecadienoic acid (C18:2n6t), C18:3transisomers, **Omega 3** - octadecatrienoic acid (C18:3n3), cis-11,14,17-eicosatrienoic acid (C20:3n3), eicosapentaenoic acid (C20:5n3), docosahexaenoic acid (C22:6n3), **Omega 6** - octadecadienoic acid (C18:2n6c), octadecatrienoic acid (C18:3n6), cis-8,11,14-eicosatrienoic acid (C20:3n6), eicosatetraenoic acid (C20:4n6), eicosadienoic acid (C20:2), docosadienoic acid (C22:2) **Omega 9** - octadecenoic acid (C18:1n9c), docosenoic acid (C22:1n9), tetracosenoic acid (C24:1n9) and the calculation of the sums of SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6 and Omega 9

Mycotoxins⁹⁾ – aflatoxins B1, B2, G1, G2, sum of aflatoxins, deoxynivalenol (DON), ochratoxin A and zearalenon

Specified substances¹¹⁾ – saccharose, glucose, fructose, lactose, maltose, galactose, xylose, arabinose, mannose, inulin, sorbitol, manitol, maltitol, xylitol, glycerol, starch

Non-volatile substances¹²⁾ – sucralose, neotame, carnitine, calculation of carnitine chloride, carnitine tartrate

Substances¹³⁾ – histamine, tyramine, tryptamine, cadaverine, histidine, putrescine, Tartrazine, Yellow SY, Azorubine, Ponceau 4R, Cochineal (Carminic acid), Erythrosine, Indigotin, Black BN, polyphosphates, polymeric compounds,

Organic acids¹⁴⁾ – oxalic, tartaric, formic, malic, ascorbic, lactic, acetic, maleic, citric, succinic, fumaric, acrylic, propionic, butyric, valeric, pyroracemic, lactic acid and calculation of their salts

Amino acids¹⁵⁾ – alanine, asparagine, arginine, glutamine, glycine, isoleucine, aspartic acid, glutamic acid, leucine, lysine, methionine, phenylalanine, proline, tryptophan, valine, serine, tyrosine, threonine, histidine and calculation of their salts

Preservatives¹⁷⁾ – benzoic acid, sorbic acid and calculation of their salts

Sweeteners¹⁸⁾ – acesulfame K, aspartame, saccharin

Sterols¹⁹⁾ – cholesterol

Carotenoids²⁰⁾ – beta-carotene, lutein, lycopene, zeaxanthin

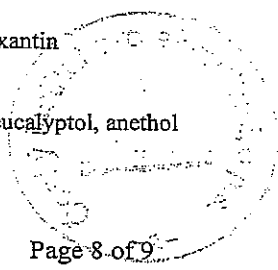
Vitamins²¹⁾ – biotine, folic acid, vitamin B₁₂

Vitamins²²⁾ – vitamin D₂, vitamin D₃

Terpenes²³⁾ – alpha thujone, beta thujone, menthol, eucalyptol, anethol

Alcohols²⁴⁾ – methanol, isopropanol

Vitamin K²⁵⁾ – vitamin K₁, vitamin K₂



Accredited entity according to ČSN EN ISO/IEC 17025:2005:

EKOCENTRUM OVALAB, s.r.o.
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Antioxidants ²⁶⁾ – butylhydroxyanisol, butylhydroxytoluene

Mycotoxins ²⁷⁾ – fumonisin

Elements ²⁸⁾ in the form of oxides, chlorides, sulphates by calculation from measured values

Sulphur dioxide ²⁹⁾ - sodium sulphite, sodium bisulphite, sodium disulphite, potassium disulphite and potassium bisulphite by calculation from measured values

Vitamins A and E ³⁰⁾ – calculation of their esters

Vitamin C ³¹⁾ – ascorbic acid and calculation of their salts

Vitamin B ³²⁾ – vitamin B1 (thiamine), vitamin B2 (riboflavin), vitamin B6 (pyridoxine) and calculation of their salts

