

**The Appendix is an integral part of
Certificate of Accreditation No. 83/2019 of 21/02/2019**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

EMPLA AG spol. s r.o.
EMPLA Ecological Laboratories
Za Škodovkou 305/5, Kukleny, 503 11 Hradec Králové

Testing laboratory workplaces:

1. Workplace P1 Hradec Králové Za Škodovkou 305/5, Kukleny, 503 11 Hradec Králové
2. Workplace P2 Brno Podnásepní 477/1H, 602 00 Brno

Letter E at the ordinal number identifies the tests performed by the Laboratory in accordance with the requirements for periodic emission measurement according to ČSN P CEN/TS 15675:2009.

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 at the Laboratory

from the Laboratory Manager.

The Laboratory is qualified to carry out independent sampling.

Tests:

Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
1 P1	Determination of pH	SOP V 1 (ČSN ISO 10 523)	Water, aqueous extracts ⁷⁾
2 P1	Determination of electrical conductivity	SOP V 2 (ČSN EN 27 888)	Water, aqueous extracts ⁷⁾
3 P1	Determination of dissolved solids and DIS by gravimetry	SOP V 3 (ČSN 75 7346, ČSN 75 7347)	Water, aqueous extracts ⁷⁾
4 P1	Determination of suspended solids and loss on ignition of suspended solids by gravimetry	SOP V 4 (ČSN EN 872 ČSN 757350)	Raw and waste water
5 P1	Determination of COD _{Mn} by titration	SOP V 5 (ČSN EN ISO 8467)	Drinking, surface, raw and ground water
6 P1	Determination of COD _{Cr} by spectrophotometry	SOP V 6 (ČSN ISO 15705)	Waste, surface, ground water, aqueous extracts ⁷⁾
7 P1	Determination of dissolved oxygen by oxygen probe	SOP V 7 (ČSN EN ISO 5814)	Water
8 P1	Determination of BOD ₅ by oxygen probe	SOP V 8 (ČSN EN 1899-1, ČSN EN 1899-2)	Waste, surface and ground water
9 P1	Determination of ammonium in water and extracts by spectrophotometry	SOP V 9 (ČSN ISO 7150-1)	Water, aqueous extracts ⁷⁾
10 P1	Determination of nitrate and sulphate by capillary ITP method	SOP V 10 (STN 75 7430)	Water, aqueous extracts ⁷⁾
11 P1	Determination of nitrite by spectrophotometry	SOP V 11 (ČSN EN 26 777)	Water, aqueous extracts ⁷⁾

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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
12 P1	Determination of chlorides by titration	SOP V 12 (ČSN ISO 9297, ČSN 83 0530-20:1981)	Water, aqueous extracts ⁷⁾
13 P1	Determination of fluoride by ISE	SOP V 13 (ČSN ISO 10 359)	Water, aqueous extracts ⁷⁾ Emissions ³⁾ , Air ³⁾
14 P1	Determination of phosphate and total phosphorus by spectrophotometry	SOP V 14 (ČSN EN ISO 6878)	Water, aqueous extracts ⁷⁾ Emissions ³⁾ , Air ³⁾
15 P1	Determination of volatile organic compounds by GC – FID/ECD/MS method	SOP V 15 (ČSN EN ISO 10 301, TNV 75 7550)	Water, aqueous extracts ⁶⁾
16 P1	Determination of aniline and nitrobenzene by GC – FID/MS method	SOP V 49 (Water Analysis – Hewlett Packard, chap. 7, page 163-179)	Water
17 P1	Determination of metals by AAS, flame method	SOP V 16a_1 (ČSN ISO 8288, ČSN ISO 9964, ČSN ISO 7980, ČSN EN 1233, ČSN 75 7400, ČSN EN ISO 5961)	Water, aqueous ⁷⁾ and acidic extracts ⁵⁾
18 P1	Determination of metals by AAS, flame method	SOP V 16a_2 (ČSN ISO 8288, ČSN ISO 9964, ČSN ISO 7980, ČSN EN 1233, ČSN 75 7400, ČSN EN ISO 5961)	Emission ³⁾ Air ³⁾
19 P1	Determination of α -modification of silicon dioxide in respirable or settled dust by FTIR method	SOP PP 8 (NIOSH 7602)	Air ⁴⁾
20 P1	Determination of metals by AAS, flameless method	SOP V 16c_1 (ČSN EN ISO 15 586, ČSN EN 12 506:2003)	Water, aqueous ⁷⁾ and acidic extracts ⁵⁾
21 P1	Determination of metals by AAS, flameless method	SOP V 16c_2 (ČSN EN ISO 15 586, ČSN EN 12 506:2003)	Emission ³⁾ Air ³⁾
22 P1	Determination of mercury by flameless AAS method (AMA)	SOP V 16d (ČSN 75 7440)	Water, aqueous ⁷⁾ and acidic extracts ⁵⁾ Liquid and solid waste, sediments, sludge, soil, liquid and solid materials ⁶⁾ , food, feedstuffs, fertilizers Emissions ^{3,4)} , Air ^{3,4)}



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23 P1	Determination of extractives in water by FTIR method	SOP V 17a (ČSN 75 7506)	Water, aqueous extracts ⁷⁾
24 P1	Determination of extractives in water by gravimetry	SOP V 17b (ČSN 75 7508, ČSN 757509)	Water, aqueous extracts ⁷⁾
25 P1	Determination of nonpolar extractives in water and extracts by FTIR method	SOP V 18 (ČSN 75 7505:1998)	Water, aqueous extracts ⁷⁾
26 P1	Determination of polycyclic aromatic hydrocarbons by HPLC-FLD method	SOP V 19 (ČSN 75 7554)	Water, aqueous extracts ⁷⁾
27 P1	Determination of polychlorinated biphenyls and organochlorine pesticides by GC-ECD method	SOP V 20 (ČSN EN ISO 6468)	Water, aqueous extracts ⁷⁾
28 P1	Determination of univalent phenols by spectrophotometry	SOP V 21a (ČSN ISO 6439)	Water, aqueous extracts ⁷⁾ , Emission ³⁾
29 P1	Determination of univalent phenols by spectrophotometry	SOP V 22 (ČSN EN 903)	Water, aqueous extracts ⁷⁾
30 P1	Determination of AOX in water and extracts by coulometric analyser	SOP V 23 (ČSN EN ISO 9562)	Water, aqueous extracts ⁷⁾
31 P1	Determination of formaldehyde by spectrophotometry after condensation with acetylacetone	SOP V 47a (ČSN EN ISO 12460-3, ČSN EN ISO 12460-4, ČSN EN ISO 12460-5, Davídek et al.: Laboratory manual of food analysis, page 417, ICUMSA Method GS2-36)	Water, aqueous extracts ⁷⁾
32 P1	Determination of formaldehyde by spectrophotometry after condensation with acetylacetone (distillation method)	SOP V 47b (ČSN EN ISO 12460-3, ČSN EN ISO 12460-4, ČSN EN ISO 12460-5 Davídek et al.: Laboratory manual of food analysis, page 417)	Cosmetics, timber, chipboard, solid materials ⁶⁾
33 P1	Determination of non-ionic surfactants by photometry using Spectroquant kit	SOP V 36 (Merck manual – Spectroquant Surfactant nonionic cell test)	Water
34 P1	Determination of phthalate in water by GC-MS method	SOP V 54 (ČSN EN ISO 18856)	Water, aqueous extracts ⁷⁾
35 P1	Determination of phthalate in soil, sludge and sediments by GC-MS method	SOP O 15 (ČSN P CEN/TS 16183)	Soil, sludge, sediments

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36 P1	Determination of total dry matter, humidity, ash and loss by annealing/annealing residue	SOP O 1 (ČSN ISO 11 465, ČSN 44 1377, ČSN EN ISO 18134-1, ČSN EN 15403, ČSN EN ISO 18122, ČSN ISO 1171, ČSN 46 7092-3)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾ . Solid fuels, biofuels, solid alternative fuels, vegetable material, feedstuffs
37 P1	Determination of metals in materials after microwave decomposition or after decomposition on a dry route by flame AAS method	SOP O 2_1.1 (ČSN EN 13346)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾
38 P1	Determination of metals in materials after microwave decomposition or after decomposition on a dry route by flameless AAS method	SOP O 2_1.2 (ČSN EN 13346)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾
39 P1	Determination of metals in materials after microwave decomposition by flame AAS method	SOP O 2_2.1 (ČSN ISO 8288, ČSN ISO 9964, ČSN ISO 7980)	Emission ⁴⁾ Air ⁴⁾
40 P1	Determination of metals in materials after microwave decomposition by flameless AAS method	SOP O 2_2.2 (ČSN EN ISO 15586)	Emission ⁴⁾ Air ⁴⁾
41 P1	Determination of metals in materials after microwave decomposition or after decomposition on a dry route by flame AAS method	SOP O 2_3.1 (ČSN 467092, ČSN EN 14082)	Feedstuffs, fertilizers, food, cosmetics, vegetable materials
42 P1	Determination of metals in materials after microwave decomposition or after decomposition on a dry route by flameless AAS method	SOP O 2_3.2 (ČSN 467092, ČSN EN 14082)	Feedstuffs, fertilizers, food, cosmetics, vegetable materials
43 P1	Determination of volatile and semi-volatile compounds by GC-FID/ECD/MS method	SOP O 3 (ČSN EN ISO 10 301, ČSN 75 7550:1991)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾
44 P1	Determination of phenols and chlorophenols in water by GC - MS method	SOP V 50 (ČSN EN 12673)	Water
45 P1	Determination of nonpolar extractives by infrared spectroscopy NEL _{IR}	SOP O 4 (TNV 75 8052:1998)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾
46 P1	Determination of polychlorinated biphenyls and organochlorine pesticides by GC-ECD method	SOP O 5 (ČSN EN 15308, ČSN EN 61 619, ČSN EN 12766-1)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾ ; oils

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47 P1	Determination of polycyclic aromatic hydrocarbons by HPLC-FLD method	SOP O 6 (ČSN 75 7554, ČSN P CEN/TS 16181)	Liquid and solid waste, sediments, sludge, soils, solid materials ⁶⁾
48 P1	Determination of volatile organic compounds by GC-FID/MS method	SOP E 1 (ČSN EN ISO 16 017-1, ČSN P CEN/TS 13649)	Emissions Air, soil air Pressure gas
49* E P1	Determination of volatile organic compounds by continual measurement using flame ionization detector	SOP E 2 (ČSN EN 12619, ISO 10396)	Emissions
50 P1	Determination of dustiness by gravimetric method	SOP PP 1 (ČSN EN 481, Annex AHEM No. 8-1976, Annex AHEM No. 9-1987, Government Regulation No. 361/2007 Coll., ČSN ISO 8573-8, VDA 19.1, VDA 19.2)	Working environment ⁴⁾ Pressure gas Air ⁴⁾
51 P1	Determination of hexavalent chromium by spectrophotometry	SOP V 24 (ČSN ISO 11 083, NIOSH 7600)	Water, aqueous extracts ⁷⁾ Emission ^{3,4)} , Air ^{3,4)}
52 P1	Determination of total nitrogen in water and extracts by means of commercial analytical set Spectroquant	SOP V 25 (Merck specification)	Water, aqueous extracts ⁷⁾
53 P1	Determination of selected elements by ICP-OES method	SOP V 29a (ČSN EN ISO 11885)	Water, extracts
54 P1	Determination of selected elements by ICP-OES method	SOP V 29b (ČSN EN 16170)	Sediments, liquid and solid waste, soils and materials ⁶⁾
55 P1	Determination of selected elements by ICP-OES method	SOP V 29c (ČSN EN ISO 11885)	Emission ^{3,4)} Air ^{3,4)}
56 P1	Determination of selected elements by ICP-OES method	SOP V 29d (ČSN EN 15510, ČSN EN 16521)	Feedstuffs, food, vegetable materials
57 P1	Determination of TOC and DOC in water and extracts by NDIR analyzer	SOP V 27 (ČSN EN 1484)	Water, aqueous extracts ⁷⁾
58 P1	Determination of fluoride in waste and soils by means of ISE	SOP O 7 (ČSN ISO 10 359)	Waste, soils
59 P1	Determination of acceptable nutrients in soils (Ca, Mg, K, P – Mehlich 3)	SOP O 11 (JPP ÚKZÚZ, AP1 chap. 3)	Soils
60 P1	Determination of melting point by means of melting microscope	SOP O 12 (Commission Regulation No. 440/2008, met. A.1)	Chemical substances and agents

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61 P1	Determination of ethanol in beverages by pycnometry	SOP P 1 (ČSN 56 0210 No. 4)	Beverages, spirits, alcohol
62 P1	Determination of methanol, high-molecular-weight alcohols and volatile impurities by GC-FID content	SOP P 2 (ČSN 56 0210 No. 12:1994, ČSN EN 15 721, ČSN 66 0805 Commission Regulation (EC) No. 2870/2000)	Beverages, spirits, alcohol
63 P1	Determination of phthalate by GC-FID method	SOP P 3 (EPA 8060, ČSN EN ISO 18856)	Beverages
64 P1	Determination of ethyl carbamate in beverages by GC-FID, GC-MS method	SOP P 4 (Compendium of international methods of analysis of spirituous beverages of vitivincultural origin OIV-MA-BS-25, 2009)	Beverages
65 P1	Determination of sugar in beverages by gravimetry	SOP P 5 (ČSN 560210 p. 47, ČSN 560210 p. 48, ČSN 560210 p. 49)	Beverages
66 P1	Determination of triazine pesticides by GC-MS method	SOP V 51a (ČSN EN ISO 10695)	Water, extracts
67 P1	Determination of triazine pesticides by GC-MS method	SOP V 51b (ČSN EN ISO 10695)	Vegetable materials
68 P1	Determination of numerical concentration of mineral fibres in air (optical microscopy with phase contrast)	SOP PP 11 (Government Regulation No. 361/2007, as amended, NIOSH Meth. No. 7400)	Air ⁴⁾
69* P1	Semiquantitative determination of analytes by means of detection tubes	SOP PP 10 (operating instructions for the tubes)	Working and indoor environment, Emission Pressure gas
70 P1	Determination of mineral acids by spectrophotometry	SOP PP 2 (Sanitary Regulation No. 60, page 40-42)	Working environment, Emission ^{3,4)} Air ^{3,4)}
71 P1	Determination of ammonia by spectrophotometry	SOP PP 3 (Sanitary Regulation No. 60, page 15-18, ČSN ISO 7150-1)	Emission ³⁾ Air ³⁾
72 P1	Determination of sulfane by spectrophotometry	SOP PP 4 (Sanitary Regulation No. 60, page 91-95)	Emission ³⁾ Air ³⁾
73 P1	Determination of carbonyl compounds by HPLC – UVD method	SOP PP 5 (EPA TO 11)	Emissions Air
74 P1	Determination of polycyclic aromatic hydrocarbons by HPLC-FLD method	SOP PP 6 (NIOSH Method 5506)	Emissions Air

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75 P1	Determination of nitrogen oxides by spectrophotometry	SOP PP 7 (Sanitary Regulation No. 60, page 79-83)	Emission ³⁾ Air ³⁾
76 P1	Determination of nitrate in water and extracts by spectrophotometry	SOP V 28 (ČSN ISO 7890 – 3)	Water, aqueous extracts ⁷⁾
77 P1	Determination of diisocyanate by HPLC –FLD method	SOP PP 9 (OSHA 42, OSHA 47)	Emission Air
78 P1	Determination of ammonia nitrogen by CFA method	SOP V 30 (ČSN ISO 7150 – 2:1994)	Waste water, aqueous extracts ^{7) 8)}
79 P1	Determination of nitrite and nitrate nitrogen by CFA method	SOP V 31 (ČSN EN ISO 13 395)	Water, aqueous extracts ^{7) 8)}
80 P1	Determination of total nitrogen by CFA method and calculation of N _{org} and N _{inorg}	SOP V 32 (ČSN EN ISO 13 395, ČSN EN ISO 11 905-1)	Water, aqueous extracts ⁷⁾
81 P1	Determination of phosphate phosphor and total phosphor after decomposition by CFA method	SOP V 33 (ČSN EN ISO 15 681-2)	Water, aqueous extracts ⁷⁾
82 P1	Isotachophoretic determination of organic acids	SOP P 6 (AL No. 5 for IONOSEP 2003 – Recman 2003)	Feedstuffs, silage, fermentation products
83 P1	Determination of aflatoxins B1, B2, G1, G2 in food and feedstuffs by HPLC-FLD method	SOP P 7 (AOAC Method 990.33)	Food, feedstuffs
84 P1	Determination of Kjeldahl nitrogen by tritration and nitrogenous substances by calculation	SOP K 2a (ČSN 467092-4, Commission Regulation EC No. 152/2009 Annex III, ČSN ISO 1871, ČSN EN ISO 8968,)	Feedstuffs, plants, food, milk, fertilizers
85 P1	Determination of Kjeldahl nitrogen by tritration and nitrogenous substances by calculation	SOP K 2b (ČSN EN 13342, ČSN ISO 11261, ČSN EN 16169)	Sludge, biowaste, composts, soils, sediments
86 P1	Determination of boron – Spectrometric method using azomethine H	SOP V 35 (ČSN ISO 9390)	Water, aqueous extracts ⁷⁾
87 P1	Determination of chlorophyll-a in water by spectrophotometry	SOP V 26 (ČSN ISO 10 260)	Surface water, bathing water
88 P1	Determination of total cyanide by spectrophotometry	SOP V 37 (ČSN 75 7415)	Water, aqueous extracts ⁷⁾ , waste
89 P1	Determination of easily liberatable cyanides by spectrophotometry	SOP V 38 (ČSN ISO 6703-2)	Water, aqueous extracts ⁷⁾ , waste Emissions ³⁾ Air ³⁾
90 P1	Determination of colour by spectrophotometry	SOP V 39 (ČSN EN ISO 7887)	Drinking and ground water

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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
91 P1	Determination of AOX, EOX by coulometry using an analyser	SOP O 8 (DIN 38 414, manual to analyzer ESC 1200)	Solid materials ⁶⁾ , sludge, soils, oils, sediments
92 P1	Determination of total content of impurities in oil seeds by sieving and sorting	SOP P 8 (ČSN EN ISO 658)	Oil seeds
93 P1	Determination of acid value of fat by alkalimetry	SOP P 9 (AOAC Method 939.05, ČSN 46 7092-8)	Fats, oils, cereals, oil seeds, feedstuffs
94 P1	Determination of fat content in feedstuffs and oil seeds by gravimetry after extraction	SOP K 1 (Commission Regulation (EC) No. 152/2009, Annex III, ČSN EN ISO 659)	Feedstuffs, oil seeds
95 P1	Determination of fibre in feedstuffs and food by oxidation hydrolysis method	SOP K 3 (Commission Regulation (EC) No. 152/2009, Annex 3 chap.1, Davidek et al.-LPAP page 61, Chem. analysis in agr. L. page 261)	Feedstuffs and vegetable materials, food
96 P1	Determination of FOS and TAC by titration	SOP O 13 (acc. to Hach-Lange)	Digested biomass from biogas plants
97 P1	Determination of pH-CaCl ₂ in soil by potentiometry	SOP O 14 (JPP ÚKZÚZ AP1 chap. 2.3.1)	Soils
98 P1	Determination of C (TOC), H, N, S by means of GC-TCD analyzer	SOP O 9 (ČSN EN 13 137:2002, ČSN EN ISO 16948)	Solid materials ⁶⁾ , sludge, waste
99 P1	Determination of morphine alkaloids by HPLC-DAD method	SOP P 10 (JPBA 32 (2003) 913-920)	Poppy, poppy straw
100* P1, P2	Determination of free and total chlorine in water by spectrophotometry using Spectroquant set and bound chlorine by calculation	SOP V 40 (ČSN ISO 7393-2:1995, Merck instructions)	Bathing, drinking and waste water
101 P1	Determination of turbidity by nephelometry	SOP V 41 (ČSN EN ISO 7027-1)	Drinking water
102 P1	Determination of odour and taste	SOP V 42 (TNV 75 7340)	Drinking water
103* P1, P2	Determination of water temperature	SOP V 43 (ČSN 75 7342)	Water
104 P1	Determination of redox potential (ORP)	SOP V 46 (ČSN 75 7367)	Water
105* P1, P2	Determination of ozone in water by means of commercial analytical set Spectroquant by spectrophotometry	SOP V 48 (Merck specification)	Ozonized water: drinking and bathing



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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
106* E P1	Determination of velocity, flowrate and moisture of gas streams in ducts	SOP E 11 (ČSN ISO 10 780, ČSN EN 14790, ČSN ISO 8573-3)	Emission Pressure gas
107* E P1	Determination of oxygen by paramagnetic method	SOP E 12 (ISO 10396, ČSN EN 14789)	Emissions
108* E P1	Determination of mass concentration of gaseous components in emissions by NDIR method (NO, NO ₂ , CO, SO ₂)	SOP E 3 (ISO 10396, ČSN ISO 10849, ČSN EN 15058, ČSN ISO 7935)	Emissions
109 P1	Determination of gross calorific value and calculation of net calorific value	SOP AP 1 (ČSN ISO 1928, ČSN 65 6169:1986, ČSN EN 15170, ČSN EN 14 918:2010, ČSN EN 15 400, ČSN EN ISO 1716)	Solid fuels, biofuels, alternative fuels, solid materials, sludge
110 P1	Determination of volatile combustible matter by gravimetric method	SOP AP 2 (ČSN 44 1351:2001)	Solid fuels
111 P1	Determination of total sulphur content by ESCHKA method	SOP AP 3 (ČSN 44 1379)	Solid fuels
112 P1	Determination of nonionic surface-active agents by spectrophotometry	SOP V 44 (M. Horáková: Chem. and phys. methods of water analysis, 1986, chap. 2.42.5 ČSN ISO 7875-2)	Water
113 P1	Determination of hydrocarbons C ₁₀ – C ₄₀ by GC-FID method	SOP O 10a (ČSN EN 14039, ČSN EN ISO 9377-2)	Water
114 P1	Determination of hydrocarbons C ₁₀ – C ₄₀ by GC-FID method	SOP O 10b (ČSN EN 14039, ČSN EN ISO 9377-2)	Sediments, sludge, waste, soil,
115 P1	Determination of ethanedinitrile in water by GC-FID method	SOP V 52 (OSHA PV 2104)	Water
116 P1	Determination of vulcanization fumes in air by gravimetry	SOP E 4 (MDHS 47/2)	Air ⁴⁾
117 P1	Determination of neutralizing capacity (ANC, BNC) by titration and determination of CO ₂ by calculation	SOP V 45 (ČSN EN ISO 9963-1, ČSN 757372)	Water



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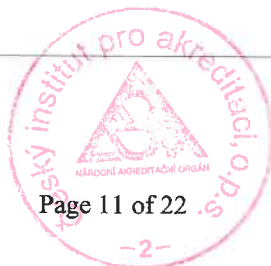
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118 E P1	Determination of solid pollutants by gravimetry	SOP E 5 (ČSN EN 13284-1)	Emissions
119 E P1	Determination of concentration of odour substances by dynamic olfactometry	SOP E 6 (ČSN EN 13725)	Emissions, Air
120 P1	Determination of gaseous inorganic compounds of chlorine by titration	SOP E 7 (ČSN EN 1911, ČSN 83 4751)	Emissions Air
121 P1	Determination of sulphur oxides and sulphuric acid by spectrophotometry	SOP E 8 (ČSN 83 4711, ČSN EN 14 791)	Emissions Air
122* E P1	Determination of mass concentration of nitrogen oxides (NO _x) in emission by chemiluminescence method	SOP E 10 (ISO 10 396, ČSN EN 14 792)	Emissions
123 E P1	Demonstration of quality of automated measuring systems	SOP E 13 (ČSN EN 14 181, cl.6 QAL2, cl.8 AST)	Automated measuring systems
124 E P1	Determination of the mass concentration of PCDD/F and PCB by calculation from measured values*	SOP E 14 (ČSN EN 1948-1, ČSN EN 1948-4 + A1)	Emissions Air
125 P1	Determination of oil content in gaseous sample by FTIR method	SOP E 15 (NIOSH 5026, ČSN ISO 8573-2, ČSN ISO 8573-5)	Emissions Pressure gas Air
126 P1	Determination of ozone by spectrophotometry	SOP E 16 (OSHA ID – 214)	Air
127 P1	Determination of alkali hydroxides by titration	SOP E 17 (NIOSH 7401)	Air
128 P1	Determination of glyphosate and AMPA in water by HPLC-FLD method	SOP V 53 (ČSN ISO 21458)	Water
129 P1	Determination of glyphosate and AMPA in vegetable material by HPLC-FLD method	SOP P 11 (AOAC 2000.52, ČSN ISO 21458)	Plant material
130 P1	Determination of the content of vitamin A and vitamin E by HPLC-UV/FLD method	SOP K 4 (ÚKZÚZ JPP ZK 10380.1, ČSN EN 12823-1, ČSN EN 12822)	Feedstuffs, premixes, food
131 P1	Determination of Bisphenol A in air by HPLC-UV method	SOP PP 12 (OSHA Method 1018)	Air

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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
132 P1	Determination of water content by Karl Fischer method	SOP V 55 (Mettler Toledo titrator manual)	Liquids
133 P1	Determination of univalent phenols by spectrophotometry	SOP V 21b (ČSN ISO 6439)	Solid materials
134 – 200	Reserved		
201 P1	Detection and enumeration of coliform bacteria in non-disinfected water by membrane filtration method	SOP MB 1 (ČSN 75 7837)	Surface and waste water
202 P1	Detection and enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by membrane filtration method	SOP MB 2 (ČSN 75 7835)	Surface, waste, drinking and ground water
203 P1	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP MB 3 (ČSN EN ISO 7899-2)	Surface, waste, drinking, ground and bathing water
204 P1	Detection and enumeration of mesophilic bacteria by direct inoculation in a meat-peptone agar	SOP MB 4 (ČSN 75 7841)	Drinking and surface water
205 P1	Detection and enumeration of psychrophilic bacteria by direct inoculation in a meat-peptone agar	SOP MB 5 (ČSN 75 7842)	Drinking and surface water
206 P1	Enumeration of coliforms - colony count technique	SOP MB 6 (ČSN ISO 4832, ČSN ISO 18593)	Food, beverages, feedstuffs and raw materials for their production, spaces ⁹⁾
207 P1	Enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Technique using Baird-Parker agar medium	SOP MB 7 (ČSN EN ISO 6888-1, ČSN ISO 18593)	Food, beverages, pool water, feedstuffs and raw materials for their production, spaces ⁹⁾
208 P1	Determination of presumptive <i>Bacillus cereus</i> by colony count technique at 30° C	SOP MB 8 (ČSN EN ISO 7932, ČSN ISO 18593)	Food, beverages, feedstuffs and raw materials for their production, spaces ⁹⁾
209 P1	Detection and enumeration of <i>Clostridium perfringens</i> including spores by membrane filtration method	SOP MB 9 (Reg. MH 252/2004, Annex 6 as amended by subsequent regulations in force as of the date of the issue of this Annex to CA)	Drinking, surface and waste water
210 P1	Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration method	SOP MB 10 (ČSN EN ISO 9308-1)	Drinking, ground, pool, purified and process water



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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
211 P1	Colony count by inoculation in a nutrient agar culture medium a) at 22 °C b) at 36 °C	SOP MB 11 (ČSN EN ISO 6222)	Drinking, ground, pool, surface and process water; soils
212 P1	Detection and enumeration of <i>Legionella</i> by direct and membrane filtration method	SOP MB 12 (ČSN ISO 11 731, ČSN ISO 18593)	Drinking, hot, service, pool, surface, cooling; Air, indoor environment of buildings, spaces ⁹⁾
213 P1	Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria by Colilert [®] – 18/QT defined substrate method	SOP MB 13 (ČSN EN ISO 9308-2)	Drinking, service, waste, pool, surface and ground water
214 P1	Enumeration of yeasts and moulds. Colony count technique at 25 Degrees C	SOP MB 14 (ČSN ISO 21527-1, ČSN ISO 21527-2, ČSN ISO 18593)	Food, feedstuffs, pool and service water, spaces ⁹⁾ , air, indoor environment of buildings
215 P1	Enumeration of microorganisms. Colony count technique at 30 Degrees C	SOP MB 15 (ČSN EN ISO 4833-1, ČSN EN ISO 4833-2, ČSN ISO 18593)	Food, feedstuffs, spaces ⁹⁾ , air, indoor environment of buildings,
216 P1	Detection and enumeration of <i>Pseudomonas aeruginosa</i> by membrane filtration method	SOP MB 16 (ČSN EN ISO 16266, ČSN ISO 18593)	Water, materials and equipment in contact with drinking water
217 P1	Detection and enumeration of enterococci by Enterolert [™] - E defined substrate method	SOP MB 17 (Enterolert [™] - E)	Drinking, process, waste and pool water
218 P1	Enumeration of <i>Enterobacteriaceae</i> by colony count technique	SOP MB 18 (ČSN ISO 21528-1, ČSN ISO 21528-2, ČSN ISO 18593)	Food, beverages, feedstuffs and raw materials for their production, pool water, spaces ⁹⁾ , waste
219 P1	Enumeration of β-glucuronidase-positive <i>Escherichia coli</i> by - colony count technique at 44 degrees C	SOP MB 19 (ČSN ISO 16649-1, ČSN ISO 16649-2)	Food, beverages, feedstuffs and raw materials for their production, spaces ⁹⁾ , waste
220 P1	Determination of fungicidal efficiency of chemical disinfecting agents by quantitative suspension method	SOP MB 20 (ČSN EN 13624, ČSN EN 1657, ČSN EN 1275, ČSN EN 1650 + A1)	Disinfecting and antiseptic agents
221 P1	Enumeration of plankton blue green algae in water	SOP MB 21 (ČSN 75 7717)	Surface water, bathing water

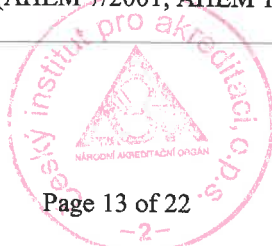


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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
222 P1	Determination of bactericidal efficiency of chemical disinfecting agents by quantitative suspension method	SOP MB 22 (ČSN EN 1040, ČSN EN 1276, ČSN EN 13623, ČSN EN 1656, ČSN EN 13727)	Disinfecting and antiseptic agents
223 P1	Verification of disinfecting efficiency of agents for the treatment of non-disinfected water	SOP MB 23 (Annex No. 4 to Regulation No. 409/2005 Coll.)	Disinfecting and antiseptic agents
224 P1	Detection and identification of microbial contamination by specified and non-specified microorganisms - culture method	SOP MB 24 (ČSN ISO 18415, ČSN ISO 21148)	Cosmetics products, medical devices and PBU
225 P1	Enumeration and detection of aerobic mesophilic bacteria by culture method	SOP MB 25 (ČSN EN ISO 21149)	Cosmetics, medical devices and PBU
226 P1	Enumeration of yeasts and moulds by culture method	SOP MB 26 (ČSN EN ISO 16212)	Cosmetics, medical devices and PBU
227 P1	Detection of <i>Escherichia coli</i> by culture method	SOP MB 27 (ČSN EN 21150)	Cosmetics, medical devices and PBU
228 P1	Detection of <i>Staphylococcus aureus</i> by culture method	SOP MB 28 (ČSN EN ISO 22718)	Cosmetics, medical devices and PBU
229 P1	Detection of <i>Pseudomonas aeruginosa</i> by culture method	SOP MB 29 (ČSN EN ISO 22717)	Cosmetics, medical devices and PBU
230 P1	Detection of <i>Candida albicans</i> by culture method	SOP MB 30 (ČSN EN ISO 18416)	Cosmetics, medical devices and PBU
231 P1	Evaluation of the antimicrobial protection of a cosmetic product by culture method	SOP MB 31 (ČSN EN ISO 11930)	Cosmetics products,
232 P1	Detection of <i>Listeria monocytogenes</i> by culture method	SOP MB 32 (ČSN EN ISO 11290-1, ČSN EN ISO 11290-2, ČSN ISO 18593)	Food, beverages, feedstuffs and raw materials for their production, spaces ⁹⁾
233 P1	Detection of <i>Salmonella</i> by culture method	SOP MB 33 (ČSN EN ISO 6579-1, ČSN ISO 19250, AHEM 1/2008, AHEM 7/2001, Regulation No. 437/2016 Coll., ČSN ISO 18593)	Food, beverages, feedstuffs and raw materials for their production, spaces ⁹⁾ , water, animal farming environment, Waste, sludge, composts and sediments, solids
234 P1	Detection and enumeration of thermotolerant coliform bacteria by colony count technique	SOP MB 34 (AHEM 7/2001, AHEM 1/2008)	Sludge, waste, composts and sediments



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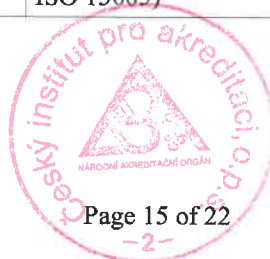
Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
235 P1	Detection and enumeration of enterococci by colony count technique	SOP MB 35 (AHEM 7/2001, AHEM 1/2008)	Sludge, waste, composts and sediments
236 P1	Enumeration of <i>Listeria monocytogenes</i> by colony count technique	SOP MB 36 (ČSN EN ISO 11290-2, ČSN ISO 18593)	Food, beverages, feedstuffs and raw materials for their production, spaces ⁹⁾
237 P1	Enumeration of thermophilic acidophilic bacteria and guaiacol producing bacteria	SOP MB 37 (ICUMSA Method GS 2/3-50:2013)	Food and raw materials for the production of food
238 – 300	Reserved		
301 P1	Test of acute lethal toxicity to a freshwater fish	SOP ET 1 (MP for the determination of ecotoxicity of waste – ME Bulletin, vol. XVII, part 4, April 2007; ČSN EN ISO 7346, OECD 203, Directive 67/548/EEC, as amended, Commission Reg. 440/2008 met C.1)	Water, extracts of waste and sediments, chemical substances and agents
302 P1	Test of acute lethal toxicity to a water arthropod	SOP ET 2 (MP for the determination of ecotoxicity of waste – ME Bulletin, vol. XVII, Part 4, April 2007; ČSN EN ISO 6341, OECD 202, Directive 67/548/EEC, as amended by subsequent regulations in force as of the date of the issue of this Annex to CA Commission Reg. 440/2008 met. C.2)	Water, extracts of waste and sediments, chemical substances and agents
303 P1	Test of inhibition of growth of green alga	SOP ET 3 (MP for the determination of ecotoxicity of waste – ME Bulletin, vol. XVII, Part 4, April 2007; ČSN EN ISO 8692, OECD 201, Directive 67/548/EEC, as amended by subsequent regulations in force as of the date of the issue of this Annex to CA Commission Reg. 440/2008 met. C.3)	Water, extracts of waste and sediments, chemical substances and agents
304 P1	Mustard root growth inhibition test	SOP ET 4 (MP for the determination of ecotoxicity of waste – ME Bulletin, vol. XVII, Part 4, April 2007)	Water, extracts of waste and sediments
305 P1	Bacterial test of the inhibition of bioluminescence emitted by <i>Vibrio Fischei</i> bacteria	SOP ET 5 (ČSN EN ISO 11348-3, DIN 38 412 – Vol. 34)	Water, extracts of waste and sediments, chemical substances and agents

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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
306 P1	Biological degradability of organic compounds in an aqueous medium (Zahn-Wellens test)	SOP ET 6 (OECD 302B, ČSN EN ISO 9888, Commission Reg. 440/2008 met. C.9; Directive 67/548/EEC as amended by subsequent regulations in force as of the date of the issue of this Annex to CA)	Water, extracts of waste, chemical substances and agents
307 P1	Determination of biological degradability of organic compounds by simulation test with activated sludge	SOP ET 7 (OECD 303A, ČSN EN ISO 11733, Commission Reg. 440/2008 met.C.10, EC Regulation 648/2004)	Water, extracts of waste,chemical substances and agents
308 P1	Biological degradability of organic compounds in an aqueous medium (closed bottle test)	SOP ET 8 (OECD 301D, ČSN ISO 10 707, ISO 10 707, Commission Reg. 440/2008 met. C.4-E, Directive 67/548/EEC as amended by subsequent regulations in force as of the date of the issue of this Annex to CA)	Water, extracts of waste,chemical substances and agents
309 P1	Biological degradability of organic compounds in an aqueous medium (test for the release of CO ₂)	SOP ET 9 (OECD 301 B, Commission Reg. 440/2008 met. C.4-C)	Water, extracts of waste,chemical substances and agents
310 P1	Test of toxicity to Enchytraeidae	SOP ET 10 (ČSN EN ISO 16387, ISO 16387, Reg. 257/2009 Coll., OECD 220)	Soil, soil materials, sediments;chemical substances and agents
311 P1	Test of toxicity to Collembola	SOP ET 11 (ČSN EN ISO 11267, ISO 11267, Reg. 257/2009 Coll.)	Soil, soil materials, sediments;chemical substances and agents
312 P1	Test of inhibition of growth of higher plants - on salad	SOP ET 12 (ČSN EN ISO 11269-1, ISO 11269-1, Reg. 257/2009 Coll.)	Soil, soil materials, sediments;chemical substances and agents
313 P1	Determination of potential nitrification and inhibition of nitrification	SOP ET 13 (Reg. 257/2009 Coll., ČSN EN ISO 15685, ISO 15685)	Soil, soil materials, sediments



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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
314 P1	Verification of efficiency of algicides for the treatment of non-disinfected water	SOP ET 14 (Annex No. 4 to Regulation No. 409/2005 Coll., ČSN EN ISO 8692)	Chemical disinfecting and antiseptic agents, algicides
315 – 400	Reserved		
401* P1	Determination of sound power and measurement of sound pressure levels	SOP F 1 (ČSN EN ISO 3746 ČSN EN ISO 3744, ČSN EN ISO 11201 ČSN EN ISO 11202 ČSN EN ISO 11203 ČSN EN ISO 11204 ČSN EN 61400-11 ed.3)	Stationary noise sources
402* P1	Measurement of noise in working environment	SOP F 2 (ČSN EN ISO 9612 Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings – MoH CR Bulletin 2013, vol. 4, part 4)	Noise in working environment
403* P1	Measurement of noise in non-working environment	SOP F 3 (ČSN ISO 1996-1 ČSN ISO 1996-2 Guideline for the measurement and evaluation of noise in non-working environment – MoH CR Bulletin 2017, vol. 11, part 1)	Noise in a non-working environment
404* P1	Measurement of daylight	SOP F 4 (ČSN 36 0011-1 ČSN 36 0011-2)	Indoor environment
405* P1	Measurement of artificial lighting	SOP F 5 (ČSN 36 0011-1 ČSN 36 0011-3 ČSN EN 12464-1 ČSN EN 12464-2)	Building interior
406* P1	Measurement of microclimatic conditions (resulting temperature of a spherical thermometer, air temperature, relative air humidity, air flow velocity, operating temperature)	SOP F 6 (ČSN EN ISO 7726 Guideline for the measurement and evaluation of microclimatic parameters of working environment and indoor areas of buildings, MoH CR Bulletin 2013 vol. 8, part 2)	Indoor and working environment

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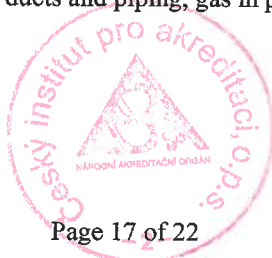
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Ordinal number ¹⁾	Test procedure/ method name	Test procedure/ method identification ²⁾	Tested object
407* P1	Measurement of vibrations (vibrations transferred to the hand and whole-body exposure)	SOP F 7 (ČSN EN ISO 5349-1 ČSN EN ISO 5349-2 ČSN ISO 2631-1 Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings – MoH CR Bulletin 2013, vol. 4, part 4)	Hand tools and machines
408* P1	Measurement of sound insulation	SOP F 8 (ČSN EN ISO 717-1, ČSN EN ISO 10140-2, ČSN EN ISO 16283-1 ČSN EN ISO 16283-3)	Building structures
409* P1	Measurement of reverberation time	SOP F 9 (ČSN EN 354, ČSN EN ISO 3382-1, cl. 5.2, ČSN EN ISO 3382-2)	Building interior

Explanations:

- ¹⁾ P1, P2 at the ordinal number identifies the Laboratory location carrying out the test.
Asterisk * at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.
 - ²⁾ If the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).
 - ³⁾ absorption solutions, condensates
 - ⁴⁾ filters, tubes with a solid sorbent
 - ⁵⁾ acid extract for the purposes of the Reg. 13/1994 Coll.
 - ⁶⁾ solid materials: debris, building and metallic materials, fertilizers, feedstuffs, solid fuels, chemical raw materials, soils, sludge, sediments, waste, textiles
 - ⁷⁾ aqueous extracts and extracts within the scope of Regulation No. 294/2005 Coll.,
 - ⁸⁾ extracts in saline solutions for agricultural purposes
 - ⁹⁾ spaces: smears and prints from surfaces, equipment and packaging, air samples (fall-outs, cups from an aeroscope)
- * Asterisk at the test procedure name indicates that the laboratory determination of an analyte in the sample is subcontracted to an external service provider.
Water: all types of water except bottled water and purified water according to Czech Pharmacopoeia, aqueous solutions
Emission: Waste gas containing pollutants released in a controlled manner or leaking into atmosphere from sources of pollution
Air: workplace, outdoor, indoor air
Pressure gas: pressure gas in air handling ducts and piping, gas in pressure cylinders, biogas



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Annex:
Flexible scope of accreditation

Ordinal numbers of tests
1 – 18, 20 - 33, 36 – 105, 109 - 114, 126 - 133

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.

Specification of substances or parameters determined within a test procedure

Ordinal Test number	List of determined substances or parameters
15	Chloroform, bromoform, dibromochloromethane, bromodichloromethane, benzene, toluene, o-xylene, m-xylene, p-xylene, trichloroethene, tetrachloroethene, chlorobenzene, p-dichlorobenzene, o-dichlorobenzene, 1,2-dichloroethane, 1,2-cis-dichloroethene, 1,2-trans-dichloroethene, styrene, tetrachloromethane, ethylbenzene, n-hexane, 1,1-dichloroethene, 1,1,1-trichloroethane, dichloromethane, vinylchloride, sum of BTX by calculation from the measured values
16	Aniline, 2,3-dichloroaniline, 2,4-dichloroaniline, 2,5-dichloroaniline, 2,6-dichloroaniline, 3,4-dichloroaniline, 3,5-dichloroaniline, 2,4,6-trimethylaniline, nitrobenzene, N-ethylaniline
26	PAH: Naphthalene, acenaphthene, acenaphthylene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(ah)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene; sum of PAH by calculation from the measured values
27	OCP: hexachlorobenzene, lindane, 4,4'-DDT, 4,4'-DDE, aldrin, metoxychlor, heptachlor PCB: congeners 28, 52, 101, 118, 138, 153, 180; sum of PCB by calculation from measured values
34	Dibutyl-phthalate (DBP), di(2-ethylhexyl)-phthalate (DEHP);
35	Dibutyl-phthalate (DBP), di(2-ethylhexyl)-phthalate (DEHP);
37	Ag, Al, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Zn, Ti, Sr, W
38	As, Ba, Be, Cd, Pb, Sb, Se, Sn, Tl, V
39	Ag, Al, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Zn, Ti, Sr, W
40	As, Ba, Be, Cd, Pb, Sb, Se, Sn, Tl, V
41	Ag, Al, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Zn, Ti, Sr, W
42	As, Ba, Be, Cd, Pb, Sb, Se, Sn, Tl, V
43	Benzene, toluene, o-xylene, m-xylene, p-xylene, ethylbenzene, chlorobenzene, p-dichlorobenzene, o-dichlorobenzene, chloroform, 1,2-cis-dichloroethene, 1,2-trans-dichloroethene, 1,2-dichloroethane, bromoform, dibromochloromethane, bromodichloromethane trichloroethene, tetrachloroethene, styrene, n-hexane, 1,1-dichloroethene, 1,1,1-trichloroethane, dichloromethane, tetrachloromethane, sum of BTX by calculation from the measured values
46	OCP: hexachlorobenzene, lindane, 4,4'-DDT, 4,4'-DDE, aldrin, metoxychlor, heptachlor PCB: congeners 28, 52, 101, 118, 138, 153, 180; sum of PCB by calculation from measured values
47	PAH: Naphthalene, acenaphthene, acenaphthylene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(ah)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene sum of PAH by calculation from measured values
48	benzene, toluene, o-xylene, m-xylene, p-xylene, ethylbenzene, methanol, ethanol, isopropanol, isobutanol, n-butanol, 1-methoxy-2-propanol, isobutyl acetate, n-butyl acetate, methyl acetate, ethyl acetate, acetone, methyl-iso-butyl ketone, ethyl methyl ketone, 1,1-dichloroethene, 1,2-cis-

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	dichloroethene, 1,2-trans-dichloroethene, dichloromethane, 1,2-dichloroethane, chloroform, tetrachloromethane, trichloroethene, tetrachloroethene chlorobenzene, p-dichlorobenzene, o-dichlorobenzene, carbon disulphide, pentane, n-hexane, 2-ethoxyethanol, 2-butoxyethanol, styrene, petrols, methane, methylmethacrylate, cyclohexane; sum of BTX by calculation from the measured values
53	Ag, Al, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Si, U, V, Zn
54	Ag, Al, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Si, V, Zn
55	Ag, Al, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Si, V, Zn
56	Ag, Al, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Si, V, Zn
62	Methanol, n-propanol, i-propanol, n-butanol, i-butanol, 2-butanol, acetone, acetaldehyde, amyl alcohols
63	Phthalates: dimethylphthalate, diethylphthalate, di-n-butylphthalate, butylbenzylphthalate, di-n-octylphthalate
66	Atrazin, simazin, terbutylazin, prometryn
67	Atrazin, simazin, terbutylazin, prometryn
69	oxygen, ozone, carbon monooxide, carbon dioxide, sulphur dioxide, hydrogen sulphide, methyl sulphide, nitrogen oxides, phenol, formaldehyde, 2-methyl-5-chloroaniline, 4-chloroaniline, aniline, azido hydrogen, phosgene, n-ethylaniline, nitrobenzene, o-dichlorobenzene
73	Carbonyl: formaldehyde, acetaldehyde, acrolein, propionaldehyde, acetone, butyraldehyde, benzaldehyde
74	PAH: Naphthalene, acenaphthene, acenaphthylene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(ah)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene; sum of PAH by calculation from the measured values
75	Nitrogen monoxide, nitrogen dioxide
77	Diisocyanate: 2,4-toluendiisocyanate, 2,6-toluendiisocyanate, 1,6-hexymethylendiisocyanate, 4,4'-methylendiisocyanate
82	Organic acids: formic, lactic, acetic, propionic, butyric, valeric and citric acid
99	Morphine
122	Nitrogen monoxide, nitrogen dioxide

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification	Sampled object
1 P1	Sampling of water from water reservoirs	SOP VZ 01 (ČSN ISO 5667 - 4)	Surface water
2 P1, 2	Sampling of drinking and hot water and water used in production of food and beverages	SOP VZ 02 (ČSN EN ISO 19 458, ČSN ISO 5667-5, Reg. MoH Regulation No. 252/2004 Coll.)	Drinking and hot water
3 P1	River and stream water sampling	SOP VZ 03 (ČSN EN ISO 5667 - 6)	Surface water
4 P1, 2	Waste water and liquid waste sampling - manual and by automatic sampler	SOP VZ 04 (ČSN ISO 5667 - 10, ME Guideline of 5/2002)	Waste water, liquid waste

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Ordinal number	Sampling procedure name	Sampling procedure identification	Sampled object
5 P1	Ground water sampling from wells by submersible pump	SOP VZ 05 (ČSN ISO 5667 - 11, ČSN ISO 5667 - 18)	Ground water
6 P1	Bathing water sampling	SOP VZ 06 (Reg. MoH No. 238/2011 Coll., ČSN EN ISO 5667-1, ČSN EN ISO 19458)	Water from pools, saunas, artificial and natural bathing places
7 P1, 2	Sampling of soils, sediments and waste water treatment plant sludge	SOP VZ 07 (ČSN 46 5331, ČSN 01 5110, ČSN EN ISO 5667 - 12, ČSN EN ISO 5667 - 13)	Soils, sediments, sludge
8 P1	Sampling for the determination of dust content, aerosol particles, including asbestos and mineral fibres	SOP VZ 08 (ČSN EN 482 + A1, ČSN EN 689, ČSN EN ISO 16000-1, ČSN EN ISO 16000-7, Gov. reg. no. 361/2007 Coll., Annex no. 3, VDA 19.1, VDA 19.2)	Working environment, indoor environment of buildings, air
9 P1	Sampling for the determination of gases and vapours	SOP VZ 09 (ČSN EN 482 + A1, ČSN EN 689, Government Reg. No. 361/2007 Coll., Annex No. 3 ČSN EN ISO 16000-1)	Working environment, indoor environment of buildings, air
10 E P1	Air sampling into bags	SOP VZ 10 (ČSN EN 482 + A1, ČSN EN 689, ČSN EN 13725)	Emissions
11 E P1	Gas and vapour sampling by absorption into liquid	SOP VZ 11	Emissions
12 E P1	Sampling of persistent organic substances by filtration-condensation method	SOP VZ 12 (ČSN EN 1948 – 1, ČSN EN 1948-4)	Emission, working environment
13 E P1	Sampling of substances by catching on a solid sorbent	SOP VZ 13 (ČSN P CEN/TS 13649, ČSN EN ISO 16017 – 1)	Emissions
14 E P1	Sampling of particulate pollutants, aerosols and substances fixed to them, including metals (sampling with automatic or manual isokinetic control)	SOP VZ 14 (ČSN EN 13284-1, ČSN EN 14385, ČSN EN 13211)	Emissions
15 P1, 2	Sampling of materials from heaps and containers	SOP VZ 15 (MP ME March 2008, TNI CEN/TR 15310)	Solid materials ⁶⁾ (heaps, containers)

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Accredited entity according to ČSN EN ISO/IEC 17025:2018:

EMPLA AG spol. s r.o.
EMPLA Ecological Laboratories
Za Škodovkou 305/5, Kukleny, 503 11 Hradec Králové

Ordinal number	Sampling procedure name	Sampling procedure identification	Sampled object
16 P1	Sampling of soil air using driving probes and sampling bell	SOP VZ 16 (MP ME 2012 – Contamination indicators, Sampling of soil air soils for stan. TOL –VŠCHT Praha - Skripta Janků, Čermák 1992)	Soil air, biogas
17 P1	Sampling of air on culture medium for microbiological determinations	SOP VZ 17 (Reg. 6/2003 Coll., AHM 1/2002)	Working environment, indoor environment of buildings, air
18 P1	Sampling of pressure gas for the purpose of checking its quality	SOP VZ 18 (ČSN ISO 8573)	Pressure gas
19 P1	Sampling by smear method for microbiological and other tests	SOP VZ 19 (ČSN ISO 18593, NIOSH 9102)	Walls, surfaces

¹⁾ If the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanations of abbreviations:

AAS	Atomic Absorption Spectrometry
AHEM	Acta Hygienica, Epidemiologica et Microbiologica (source: SZÚ Praha)
AOX	Adsorbable Organically Bound Halogens
BOD	Biological Oxygen Demand
CFA	Continuous Flow Analysis
DOC	Dissolved Organic Carbon
ECD	Electron Capture Detector
EHS	European Economic Community
EPA	Environmental Protection Agency (USA)
EOX	Extractable Organically Bound Halogens
FID	Flame Ionization Detector
FLD	Fluorescence Detector
FOS	Volatile Organic Acids
FTIR	Fourier Transformation Infrared Spectrometry
GC	Gas Chromatography
HEM	documents issued by Chief Hygienist of the Czech Republic
HPLC	High-Performance Liquid Chromatography
COD	Chemical Oxygen Demand
ICP-OES	Inductively Coupled Plasma Optical Emission Spectrometry
ISE	Ion Selective Electrode
ITP	Isotachopheresis
JPBA	Journal of Pharmaceutical and Biomedical Analysis
MP	Guideline
MS	Mass Detector
MH	Ministry of Health
MoE	Ministry of Environment
NEL	Nonpolar Extractives
NDIR	Non-Dispersive Infrared Analyser
NIOSH	The National Institute for Occupational Safety and Health

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OCP	Organochlorine Pesticides
OECD	Organisation for Economic Cooperation and Development
OSHA	European Occupational Safety and Health Agency
PAH	Polycyclic Aromatic Hydrocarbons
PBU	Consumer goods
PCB	Polychlorinated Biphenyls
DIS	Dissolved Inorganic Salts
SOP	Standard Operating Procedure – a procedure based on standards or other equivalent sources (technical publications, firm procedures)
STN	Slovak Technical Standard
TCD	Thermal Conductivity Detector
TNV	Branch Technical Standard of Water Management
TOC	Total Organic Carbon

