**The Appendix is an integral part of**
**Certificate of Accreditation No. 72/2023 of 15/02/2023**

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

**Povodí Vltavy, státní podnik**
Water Management Laboratory in Plzeň
Denisovo nábřeží 2430/14, 301 00 Plzeň

*The laboratory applies 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 Quality Manager.*

*The laboratory provides expert opinions and interprets test results.*

*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* | Determination of pH electrochemically | Z-1a-A (ČSN ISO 10523) | Drinking, surface and waste water, aqueous extracts[3] |
| 2 | Determination of ANC by titration | Z-2a-A (ČSN EN ISO 9963-1) | Drinking, surface and waste water |
| 3* | Determination of electrical conductivity | Z-4a-A (ČSN EN 27888) | Drinking, surface and waste water |
| 4 | Determination of absorbance | Z-5a-A (ČSN 75 7360) | Drinking, surface water |
| 5* | Determination of turbidity by nephelometry | Z-6a-A (ČSN EN ISO 7027-1) | Drinking, surface water |
| 6 | Determination of dissolved solids by gravimetry and loss on ignition by calculation from measured values | Z-7a-A (ČSN 75 7346, ČSN 75 7347) | Surface and waste water, aqueous extracts[3] |
| 7 | Determination of suspended solids by gravimetry and loss on ignition by calculation from measured values | Z-7b-A (ČSN EN 872, ČSN 75 7350) | Surface and waste water |
| 8 | Determination of dry residue and loss on ignition | Z-33-B (ČSN EN 15934, ČSN EN 15935) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |
| 9 | Determination of $BOD_n$ with the determination of dissolved oxygen by electrochemical method | Z-9b-A (ČSN EN ISO 5815-1, ČSN EN 1899-2) | Surface and waste water |
| 10 | Determination of $COD_{Mn}$ by titration | Z-10b-A (ČSN EN ISO 8467-Z1) | Drinking and surface water |
| 11 | Determination of $COD_{Cr}$ by spectrophotometry - MERCK analytical commercial set | Z-11b-A (ČSN ISO 15705, MERCK manual) | Surface and waste water |
| 12 | Determination of the sum of calcium and magnesium by titration | Z-21b-A (ČSN ISO 6059) | Drinking and surface water |
| 13 | Determination of total and free cyanide by CFA method | Z-39a-A (ČSN EN ISO 14403-2) | Drinking, surface and waste water |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested object |
|---|---|---|---|
| 14 | Determination of ammonia nitrogen by CFA method and calculation of ammonium from measured values | Z-12c-A (ČSN EN ISO 11732) | Drinking, surface and waste water |
| 15 | Determination of nitrite nitrogen by CFA method and calculation of nitrite from measured values | Z-13c-A (ČSN EN ISO 13395) | Drinking, surface and waste water |
| 16 | Determination of nitrate nitrogen by CFA method and calculation of nitrate from measured values | Z-14e-A (ČSN EN ISO 13395) | Drinking, surface and waste water |
| 17 | Determination of total nitrogen by CFA method and calculation of inorganic and organic nitrogen from measured values | Z-16c-A (ČSN EN ISO 13395, ČSN EN ISO 11905-1, ČSN ISO 29441) | Drinking, surface and waste water |
| 18 | Determination of phosphate phosphorus by CFA method and calculation of phosphate from measured values | Z-17c-A (ČSN EN ISO 15681-2) | Drinking, surface and waste water |
| 19 | Determination of total phosphorus by CFA method | Z-18d-A (ČSN EN ISO 15681-2) | Drinking, surface and waste water |
| 20 | Determination of sulphate by CFA method | Z-20e-A (ČSN ISO 22743) | Drinking, surface and waste water, aqueous extracts[3] |
| 21 | Determination of chlorides by CFA method | Z-19c-A (ČSN EN ISO 15682) | Drinking, surface and waste water, aqueous extracts[3] |
| 22* | Determination of dissolved oxygen by optical sensor method and calculation of saturation percentage | Z-8c-A (ČSN EN ISO 17289) | Surface water |
| 23 | Determination of colour by spectrophotometry | Z-23b-A (ČSN EN ISO 7887) | Drinking, surface and waste water |
| 24* | Determination of free and total chlorine by spectrophotometry - HACH analytical commercial set | Z-28b-A (ČSN EN ISO 7393-2, HACH manual) | Drinking and surface water |
| 25* | Determination of water temperature | Z-22a-A (ČSN 75 7342) | Drinking, surface and waste water |
| 26* | Determination of transparency by Secchi disc | Z-26a-A (ČSN EN ISO 7027-2, ČSN 75 7340) | Surface water |
| 27 | Detection and enumeration of coliform bacteria and *Escherichia coli* by most probable number method | B-9-A (ČSN EN ISO 9308-2) | Drinking and surface water |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested object |
|---|---|---|---|
| 28 | Enumeration of culturable microorganisms at 22°C at 36°C by inoculation in a nutrient agar culture medium | B-13-A<br>(ČSN EN ISO 6222) | Drinking, surface and waste water |
| 29 | Determination of bioseston - zooplankton microscopically | B-5<br>(ČSN 75 7712, ČSN EN 15110; Přikryl.I.: Method for the sampling and processing of standing water zooplankton samples, VÚV, 2006) | Surface water |
| 30 | Determination of net plankton microscopically | B-6<br>(ČSN 75 7712) | Surface water |
| 31 | Determination of bioseston – phytoplankton microscopically and calculation of phytoplankton saprobic index | B-1<br>(ČSN 75 7712,<br>ČSN EN 15204,<br>ČSN 75 7716,<br>ČSN 75 7717,<br>Heteša, J., Marvan, P.: Method for the sampling and processing of flowing water phytoplankton samples, VÚV, 2006;<br>Komárková, J. :Method for the sampling and processing of standing water phytoplankton samples, VÚV, 2006) | Drinking and surface water |
| 32 | Determination of abioseston microscopically | B-2<br>(ČSN 75 7713) | Drinking, surface and waste water |
| 33 | Determination of macrozoobenthos microscopically and calculation of macrozoobenthos saprobic index | B-3<br>(ČSN EN ISO 10870,<br>ČSN 75 7701,<br>ČSN 75 7714,<br>ČSN 75 7716,<br>ČSN EN 17136,<br>Kokeš, J., Němejcová,D.: Method for the sampling and processing of flowing water macrozoobenthos samples - Perla method, VÚV, 2006;<br>Kokeš,J., Tajmrová,L., Kvardová,H.: Method for the sampling and processing of unfordable flowing water macrozoobenthos samples, VÚV, 2006;<br>Adámek,Z.: Method for the sampling and processing of standing water macrozoobenthos samples, VÚV, 2006) | Surface water |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested object |
|---|---|---|---|
| 34 | Determination of chlorophyll-a and phaeopigments by spectrophotometry | B-7-A<br>(ČSN ISO 10260) | Surface water |
| 35 | Detection and enumeration of thermotolerant coliform bacteria and Escherichia coli by membrane filtration method | B-11-A<br>(ČSN 75 7835) | Surface and waste water |
| 36 | Detection and enumeration of intestinal enterococci by membrane filtration method | B-12-A<br>(ČSN EN ISO 7899-2) | Drinking, surface and waste water |
| 37 | Determination of macrophytes by determination | B-21<br>(ČSN EN 14184,<br>ČSN EN 15460,<br>Grulich,V., Vydrová A.: Method for the sampling and processing of flowing water macrophyta samples, VÚV, 2006;<br>Grulich V., Vydrová A.: Method for the sampling and processing of standing water macrophyta samples, VÚV, 2006) | Surface water |
| 38 | Determination of phytobenthos microscopically and calculation of phytobenthos saprobic index | B-4<br>(ČSN 75 7715,<br>ČSN EN 14407,<br>ČSN EN 13946,<br>ČSN 757716,<br>ČSN EN 15 708,<br>Marvan P., Heteša J.: Method for the sampling and processing of flowing water phytobenthos samples, VÚV, 2006;<br>Marvan P., Kozáková M.: Method for the sampling and processing of standing water phytobenthos samples, VÚV, 2006) | Surface and waste water |
| 39 | Determination of glyphosate and AMPA by LC-MS/MS method | O-16-A<br>(ČSN ISO 21458, EPA 547) | Drinking, surface, underground, waste and process water |
| 40 | Determination of glyphosate and AMPA by LC-MS/MS method | O-16-B<br>(ČSN ISO 21458) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |
| 41 | Determination of glyphosate and AMPA by LC-MS/MS method | O-16-C<br>(ČSN ISO 21458) | Animal and vegetable materials |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested object |
|---|---|---|---|
| 42 | Determination of chloroalkanes $C_{10}$-$C_{13}$ by GC/MSD method | O-17-A (ČSN EN ISO 12010) | Drinking, surface, underground, waste and process water |
| 43 | Determination of volatile organic compounds (VOC) by GC/MSD method | O-8a-A (ČSN EN ISO 15680, TNV 75 7055) | Drinking, surface, underground, waste and process water |
| 44 | Determination of volatile organic compounds (VOC) by GC/MSD method | O-8a-B (ČSN EN ISO15680, EPA 8260) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |
| 45 | Determination of polychlorinated biphenyls (PCB) and organochlorinated pesticides (OCP) by GC/ECD/MSD method | O-9a-A (ČSN EN ISO 15680, EPA 6468, ČSN P ISO/TS 28581) | Drinking, surface, underground, waste and process water |
| 46 | Determination of chlorinated phenols, cresols, naphthols and alkylphenols (CP) by GC/MSD method | O-13a-A (ČSN EN 12673, ČSN EN ISO 18857-1, ČSN ISO 24293) | Drinking, surface, underground, waste and process water |
| 47 | Determination of chlorinated phenols, cresols, naphthols and alkylphenols (CP) by GC/MSD method | O-13a-B (ČSN EN 12673, ČSN EN ISO 18857-1, ČSN ISO 24293, EPA 8041A) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |
| 48 | Determination of nitro compounds and anilines (NITRO) by GC/MSD | O-11b-A (ČSN EN ISO 10695) | Drinking, surface, underground, waste and process water |
| 49 | Determination of selected analytes by GC-MS/MS | O-14-A (ČSN EN ISO 18856, ČSN EN ISO 22032, ČSN EN ISO 6468, ČSN P ISO/TS 28581) | Drinking, surface, underground, waste and process water |
| 50 | Determination of complexing agents (EDTA) by GC/NPD method | O-15-A (ČSN EN ISO 16588) | Drinking, surface, underground, waste and process water |
| 51 | Determination of hydrocarbons $C_{10}$ – $C_{40}$ by GC/FID method | O-2c-A (ČSN EN ISO 9377-2) | Drinking, surface, underground, waste and process water |
| 52 | Determination of hydrocarbons $C_{10}$ – $C_{40}$ by GC/FID method | O-2c-B (ČSN EN 14039, ČSN EN ISO 16703) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |
| 53 | Determination of selected analytes by LC-MS/MS method | O-19-A (EPA 1694, ČSN ISO 20179, ČSN ISO 25101, EPA 535, EPA 539) | Drinking, surface, underground, waste and process water |
| 54 | Determination of selected analytes by LC-MS/MS method | O-19-B (ČSN ISO 20179) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested object |
|---|---|---|---|
| 55 | Determination of selected analytes by LC-MS/MS method | O-19-C (ČSN ISO 20179) | Animal and vegetable materials |
| 56 | Determination of polychlorinated biphenyls (PCB) and organochlorinated pesticides (OCP), synthetic musk substances (MUSK), brominated diphenyl ethers (PBDE), phthalates (FT) and chloroalkanes $C_{10}$-$C_{13}$ by GC/ECD/MSD method | O-9a-B (ČSN EN ISO 22032, ČSN EN ISO 18856 ČSN EN 17322) | Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste |
| 57 | Determination of polychlorinated biphenyls (PCB) and organochlorinated pesticides (OCP), synthetic musk substances (MUSK), brominated diphenyl ethers (PBDE), phthalates (FT) and chloroalkanes $C_{10}$-$C_{13}$ by GC/ECD/MSD method | O-9a-C (ČSN EN ISO 22032, ČSN EN ISO 18856, ČSN EN 17322) | Animal and vegetable materials |

[1] 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] the aqueous extract was prepared according to Regulation No. 273/2021 Coll. in accordance with the Guideline of the Ministry of Environment ZP 28/2002

Annex:
Flexible scope of accreditation

| Ordinal numbers of tests |
|---|
| 39 - 57 |

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.

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## Sampling:

| Ordinal number | Sampling procedure name | Sampling procedure identification[1] | Sampled object |
|---|---|---|---|
| 1 | Drinking water sampling | PP-17-1<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN ISO 5667-5,<br>ČSN EN ISO 5667-14,<br>ČSN EN ISO 19458,<br>Regulation No. 252/2004 Coll., as amended) | Drinking water |
| 2 | Surface water sampling (manual and by automatic sampler) | PP-17-2<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN ISO 5667-4,<br>ČSN EN ISO 5667-6,<br>ČSN EN ISO 5667-14,<br>ČSN EN ISO 19458<br>ČSN 75 7717<br>(Regulation No. 238/2011 Coll.) | Surface water[2] |
| 3 | Waste water sampling (manual and by automatic sampler) | PP-17-3<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN ISO 5667-10,<br>ČSN EN ISO 5667-14,<br>ČSN 75 7315,<br>ČSN EN ISO 19458) | Waste water |
| 4 | Sampling of sediments from surface water | PP-17-4<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN ISO 5667-12,<br>ČSN EN ISO 5667-14,<br>ČSN EN ISO 5667-15<br>Regulation No. 257/2009 Coll.,<br>Regulation No. 273/2021 Coll. | Sediments |
| 5 | Sampling of hydrobiological material | PP-17-5<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN EN ISO 5667-14,<br>ČSN EN ISO 5667-16,<br>ČSN 75 7701,<br>ČSN 75 7712,<br>ČSN 75 7717,<br>ČSN EN ISO 10870,<br>ČSN EN 16698,<br>ČSN EN 13946, | Hydrobiological material |

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| Ordinal number | Sampling procedure name | Sampling procedure identification[1] | Sampled object |
|---|---|---|---|
| | | SOP B-1,<br>SOP B-2,<br>SOP B-3,<br>SOP B-4,<br>SOP B-5,<br>SOP B-6,<br>SOP B-21) | |
| 6 | Soil sampling | PP-17-6<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN EN ISO 5667-14,<br>ČSN EN ISO 5667-15,<br>Regulation No. 275/1998 Coll.) | Soils |
| 7 | Sampling of water purification and water treatment plant sludge | PP-17-7<br>(ČSN EN ISO 5667-1,<br>ČSN EN ISO 5667-3,<br>ČSN EN ISO 5667-13,<br>ČSN EN ISO 5667-14,<br>ČSN EN ISO 5667-15,<br>Regulation No. 273/2021 Coll.,<br>Regulation No. 445/2022 Coll.,<br>Regulation No. 244/2021 Coll.) | Sludge (sludge, sediment, screenings, sand, soil) |

[1] 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)

[2] surface water – flowing water, standing water from water reservoirs, natural bathing places and surface water for bathing

## Abbreviations:

| Abbreviation | Explanation |
|---|---|
| ANC | Acid Neutralizing Capacity |
| $BOD_n$ | Biochemical Oxygen Demand, n is the time of incubation (days) (n = 5, 2+5) |
| $COD_{Mn}$ | Chemical Oxygen Demand with permanganate |
| $COD_{Cr}$ | Chemical Oxygen Demand with dichromate |
| AMPA | Aminomethylphosphonic Acid |
| VOC | Volatile Organic Compounds |
| PCB | Polychlorinated Biphenyls |
| OCP | Organochlorinated Pesticides |
| NITRO | Nitrocompounds |

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| Abbreviation | Explanation |
|---|---|
| MUSK | Synthetic musk substances |
| PBDE | Brominated Diphenyl Ethers |
| FT | Phthalates |
| EDTA | Ethylendiamintetraacetic acid |
| CP | Chlorinated Phenols |
| CFA | Continuous Flow Analysis |
| $C_{10}$-$C_{40}$ | Sum of non-polar extractable hydrocarbons in the range: decane and tetracontane |
| $C_{10}$-$C_{13}$ | Chlorinated alkanes with short carbon chain |
| GC/MSD | Gas Chromatography with Mass Spectrometry Detector |
| GC/ECD | Gas Chromatography with Electron Capture Detector |
| GC/NPD | Gas Chromatography with Nitrogen Phosphorous Detector (selective for nitrogen and phosphorus) |
| GC/FID | Gas Chromatography with Flame Ionization Detector |
| LC-MS/MS | Liquid Chromatography with Mass Detector |

## Specification of substances determined within the test procedure:

| Ordinal number | List of multicomponent determination parameters |
|---|---|
| 39 | **GLYPHOSATE:** glyphosate, AMPA, gluphosinate; |
| 40 | **GLYPHOSATE:** glyphosate, AMPA, gluphosinate; |
| 41 | **GLYPHOSATE:** glyphosate, AMPA, gluphosinate; |
| 43 | **TOL:** benzene, bromobenzene, bromodichloromethane, bromochloromethane, bromoform, tert. butylbenzene, sec. butylbenzene, n-butylbenzene, dibromomethane, dibromochloromethane, 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, 1,2-dichlorobenzene (o), 1,3-dichlorobenzene (m), 1,4-dichlorobenzene (p), 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis 1,2-dichloroethene, trans 1,2-dichloroethene, dichloromethane, 1,2-dichloropropane, 1,3-dichloropropane, 2,2-dichloropropane, 1,1-dichloropropene, cis 1,3-dichloropropene, trans 1,3-dichloropropene, ethylbenzene, hexachlorobutadiene, chlorobenzene, 2-chlorotoluene, 4-chlorotoluene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, styrene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2,2-tetrachloroethene, tetrachloromethane, trichloromethane (chloroform), 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2-trichloroethene, 1,2,3-trichloropropane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, toluene, 1,2-xylene (o), vinylchloride, 1,3- + 1,4-xylenes; |
| 44 | **TOL:** benzene, m-dichlorobenzene, p-dichlorobenzene, o-dichlorobenzene, 1,2-dichloroethane, trans 1,2-dichloroethene, cis 1,2-dichloroethene, ethylbenzene, hexachlorobutadiene, chlorobenzene, chloroform, 2-chlorotoluene, 4-chlorotoluene, tetrachloroethene, tetrachloromethane, trichloroethene, 1,3,5-trichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, toluene, m+p-xylenes, o-xylene; |
| 45 | **PCB**: congeners PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, Delor 103, Delor 106;<br><br>**OCP:** alpha-HCH, beta-HCH, gamma-HCH (lindane), delta-HCH, epsilon-HCH, 1,2,4,5-tetrachlorobenzene, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, heptachlor, cis-heptachloroepoxide, trans-heptachloroepoxide, a-endosulfan, b-endosulfan, octachlorostyrene, o,p´- DDE, o,p´- DDD, o,p´- DDT, p,p´- DDE, p,p´- DDD, p,p´- DDT, aldrin, dieldrin, endrin, isodrin, methoxychlor, trifluralin, chlorpyrifos, oxy-chlordan, cis-chlordan, trans-chlordan, mirex; |

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| Ordinal number | List of multicomponent determination parameters |
|---|---|
| 46 | **PHENOLS, CRESOLS, NAPHTHOLS**: phenol, o-cresol, m-cresol, p-cresol, alpha-naphthol, beta-naphthol;<br>**ALKYLPHENOLS:** 4-terc.-octylphenol, 4-n-octylphenol, 4-n-nonylphenol, nonylphenol (technical), bisphenol A;<br>**CHLOROPHENOLS:** 2-monochlorophenol, 3-monochlorophenol, 4-monochlorophenol, 2,3-dichlorophenol, 2,4- + 2,5-dichlorophenols, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,4,5-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, triclosan, triclosan-methylether, 2,3,4-trichlorophenol, 4-chloro-2-methylphenol, pentachlorophenol, 2,6-dichlorophenol; |
| 47 | **PHENOLS, CRESOLS, NAPHTHOLS**: phenol, o-cresol, m-cresol, p-cresol, alpha-naphthol, beta-naphthol;<br>**ALKYLPHENOLS:** 4-terc.-octylphenol, 4-n-octylphenol, 4-n-nonylphenol, nonylphenol (technical), bisphenol A;<br>**CHLOROPHENOLS:** 2-monochlorophenol, 3-monochlorophenol, 4-monochlorophenol, 2,3-dichlorophenol, 2,4- + 2,5-dichlorophenols, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,6-dichlorophenol, 2,4,5-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, pentachlorophenol, 2,3,4-trichlorophenol, 4-chloro-2-methylphenol; |
| 48 | **ANILINES and NITRO:** aniline, n-ethylaniline; 2-chloroaniline, sum of 3+4-chloroanilines, 3,4-dichloroaniline, 4-chloro-2-nitroaniline, nitrobenzene, 2-nitrotoluene, 3-nitrotoluene, 4-nitrotoluene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 1-chloro-2-nitrobenzene, 4-chloro-2-nitrotoluene, 2-chloro-4-nitrotoluene, 1,4-dichloro-2-nitrobenzene, 1,2-dichloro-4-nitrobenzene, 1,2-dichloro-3-nitrobenzene, 1,2-dinitrobenzene, 1,3-dinitrobenzene, 1,4-dinitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 3,4-dinitrotoluene, 2,3-dinitrotoluene, 1-chloro-2,4-dinitrobenzene, 2,5-dichlorotoluene, 1-chloronaphthalene; |
| 49 | **MUSK:** musk xylene, musk ketone, galaxolide, tonalide, cashmeran, celestolide, phantholide, traseolide, musk ambrette, musk moskene, musk NN;<br>**FT**: bis (2-etylhexyl)phthalate (DEHP), buthylbenzylphthalate, diethylphthalate, dimethylphthalate, di-n-buthylphthalate, di-n-octylphthalate;<br>**PBDE and HBCDD:** BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-138, BDE-153, BDE-154, BDE-183, BDE-209, hexabromocyclododecane (HBCDD);<br>**PCB and OCP:** PCB-28, PCB- 52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, HCH-alpha, HCH-beta, HCH-gamma, HCH-delta, HCH-epsilon, pentachlorobenzene, hexachlorobenzene, o,p´-DDE, o,p´-DDD, o,p´-DDT, p,p´-DDE, p,p´-DDD, p,p´-DDT, aldrin, dieldrin, endrin, isodrin, heptachlor, cis-heptachloroepoxide, trans-heptachloroepoxide, alpha-endosulfan, beta-endosulfan, chlorpyriphos, octachlorostyrene, methoxychlor, trifluralin, oxy-chlordan, cis-chlordan, trans-chlordan, mirex, 1,2,4,5- tetrachlorobenzene, 1,2,3,4- tetrachlorobenzene, 1,2,3,5- tetrachlorobenzene;<br>**PESTICIDES:** dicofol, dicamba-methyl, bentazone-methyl, triclosan-methylether, BHT, dichlobenil, chlorothalonil;<br>**PYRETHROIDS:** bifenthrin, cypermethrin, deltamethrin, esfenvalerate, permethrin; |
| 50 | **COMPLEXONS:** EDTA, NTA, 1,3-PDTA; |
| 53 | **PESTICIDES, PHARMACEUTICALS, PERSONAL CARE PRODUCTS and METABOLITES:** 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,6- dichlorobenzoic acid, 2,6-dichlorobenzamide, 2-chloro-2,6-diethylacetanilide, 3,5,6-trichloro-2-pyridinol, 3-chloro-4-methylaniline, 4-acetamidoantipyrine, 4-formylaminoantipyrine, acebutulol, acesulfam, acetamiprid, acetochlor, acetochlor ESA, acetochlor OA, aclonifen, alachlor, alachlor ESA, alachlor OA, alfuzosin, ametryn, aminopyralid, amitriptiline, anthranilic acid isopropylamide, |

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| Ordinal number | List of multicomponent determination parameters |
|---|---|
| | atenolol, atorvastatin, atraton, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desethyl-desisopropyl, atrazine-desisopropyl, avobenzone, azithromycin, azoxystrobin, benalaxyl, bentazone, benzotriazole, benzotriazole 1-methyl, benzotriazole 4-methyl, benzivindiflupyr, bezafibrate, bifenox, bifenthrin, bisphenol A, bisphenol B, bisphenol S, bisoprolol, bixafen, boscalid, bromacil, bromoxynil, bromuconazole, butachlor ESA, butylparaben, caffeine, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine 10,11-epoxide, carbamazepine 2-hydroxy, carbendazim, carbofuran, carbofuran-3-hydroxy, celiprolol, cetirizine, citalopram, clarithromycin, climbazole, clindamycin, clofibric acid, clomazone, clopyralid, clothianidin, cotinine, clotrimazol, cyanazine, cyazofamide, cyclamate, cyclophosphamide, cyhalothrin, cymoxanil, cypermethrin, cyproconazole, cyprosulfamide, dazomet, DCPU, DEET, deltamethrin, desmedipham, desmetryn, diatrizoate, diazinon, dicamba, dicamba-5-hydroxy, diclofenac, diclofenac-4'-hydroxy, difenoconazole, diflufenican, dichlormid, dichlorvos, diltiazem, dimethachlor, dimethachlor ESA, dimethachlor OA, dimethenamid ESA, dimethenamid OA, dimethenamid, dimethoate, dimethomorph, dimoxystrobin, dinoseb, disopyramide, diuron, diuron desmethyl (DPCMU), epoxiconazole, eprosartan, erythromycin, esfenvalerate, ethofumesate, ethylparaben, famoxydone, fenamidone, fenarimol, fenhexamid, fenitrothion, fenpropidin, fenpropimorph, fenthion, fenuron, fexofenadine, fipronil, florasulam, fluazifop-P, fluazifop-P-butyl, fluazinam, fluconazole, flufenacet, flufenacet ESA, flufenacet OA, fluopicolide, fluorochloridone, fluoxetine, fluroxypyr, flusilazole, fluxapyroxad, fonofos, foramsulfuron, furosemide, gabapentin, gemfibrozil, haloxyfop, haloxyfop-methyl, hexazinone, hydrochlorothiazide, chloramphenicol, chlorantraniliprol, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon desphenyl, chloridazon methyl desphenyl, chloroxuron, chlorpropham, chlorpyriphos, chlorsulfuron, chlortoluron, chlortoluron desmethyl, ibuprofen, ibuprofen-2-hydroxy, ibuprofen-carboxy, imazalil, imazamethabenz-methyl, imazamox, imazethapyr, imidacloprid, iohexol, iomeprol, iopamidol, iopromid, ipconazol, iprodione, irbesartan, irgarol, isoproturon, isoproturon desmethyl, isoproturon monodesmethyl, isopyrazam, isoxaflutole, isoxaflutole BA, isoxaflutole DKN, ivermectin, ketoprofen, kresoxim-methyl, lamotrigine, lansoprazole sulfone, lenacil, lincomycin, linuron, losartan, lovastatin, malathion, mandipropamid, MCPA, MCPB, MCPP, mebendazole, mefenpyr-diethyl, memantine, mesotrione, metaflumizone, metalaxyl, metamitron, metazachlor, metazachlor ESA, metazachlor OA, metconazole, metformin, methabenzthiazuron, methamidophos, methidathion, methiocarb, methoxyfenozide, methylparaben, metobromuron, metolachlor, metolachlor ESA, metolachlor OA, metoprolol, metoxuron, metrafenone, metribuzin, metribuzin DA, metribuzin DADK, metribuzin DK, metsulfuron-methyl, miconazole, mirtazapine, monolinuron, monuron, napropamide, naproxene, naproxene-o-desmethyl, N-demethyltriazine amine, neburon, nicosulfuron, norverapamil, octhilinone, octocrylene, octyl methoxycinnamate (OMC), omethoate, oxadiazon, oxcarbazepine, oxybenzone, oxypurinol, paracetamol, parathion-ethyl, parathion-methyl, paraxanthine, penconazole, pendimethalin, peniciline G, penoxsulam, permethrin, pethoxamid, pethoxamid ESA, phenazone, phenmedipham, phorate, phosalone, phosphamidon, picloram, picolinafen, picoxystrobin, pirimicarb, p-isopropylaniline, primidone, prohexadione, prochloraz, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propaquizafop, propargite, propazine, propham, propiconazole, propoxycarbazone , propranolol,, propylparaben, propyphenazone, propyzamide, proquizamide, prosulfocarb, prothioconazole, pyraclostrobin, pyridate, pyrimethanil, quinmerac, quinoxyfen, quizalafop, quizalafop-ethyl, ranitidin, rimsulfuron, rosuvastatin, roxithromycin, saccharin, salbutamol, sebuthylazine, secbumeton, sertraline, simazine, simazine-2-hydroxy, simetryn, simvastatin, sitagliptine, sotalol, spiroxamine, sucralose, sulfadiazine, sulfamerazine, sulfamethazine, sulfamethoxazole, sulfanilamide, sulfapyridine, sulfosulfuron, Swep, tebuconazole , telmisartan, tembotrione, terbuthylazine, terbuthylazine-2-hydroxy, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbutryn, tetraconazole, theophylline, thiacloprid, thiamethoxam, thiencarbazone-methyl, thifensulfuron-methyl, thiophanate-methyl, tiamulin, topramezon, torasemide, tramadol, trazodone, triadimefon, triadimenol, tri-allate, triasulfuron, tribenuron-methyl, triclocarban, triclopyr, triclosan, |

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| Ordinal number | List of multicomponent determination parameters |
|---|---|
| | trifloxystrobin, triflusulfuron-methyl, triforine, trimetoprim, trinexapac-ethyl, triticonazole, tritosulfuron, valifenalate, valsartan, valsartan acid, venlafaxine, venlafaxine O-desmethyl, verapamil, warfarin;<br>**MICROCYSTIN:** microcystin LR, microcystin RR, microcystin YR;<br>**HIGHLY POLAR PESTICIDES:** ethephon, guanylurea, ethylenethiourea, chlormequat, melamine, mepiquat,<br>**HORMONES:** 17a-ethinylestradiol, 17-alpha-estradiol, 17-beta-estradiol, estriol, estrone, norethisterone, progesterone, testosterone;<br>**ANTIBIOTICS:** Enoxacin, enrofloxacin, norfloxacin, ciprofloxacin, ofloxacin, doxycycline, amoxicillin;<br>**ADDICTIVE SUBSTANCES:** 6-monoacetylmorphine, 6-monoacetylcodeine, amphetamine, benzoylecgonine, cinnamoilcocaine, cocaine, codeine, diazepam, EDDP, ephedrine, ethylmorphine, fentanyl, heroin, hydrocodone, ketamine, lidocaine, LSD, LSD-2-oxo-3-hydroxy, MDA, MDMA, methadone, methamphetamine, methylephedrine, morphine, norcocaine, oxazepam, oxycodone, THC, THC-COOH;<br>**PFAS:** PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnDA, PFDoDA, PFTrDA, PFBS, PFPeS, PFHxS, PFHpS, PFOS, PFNS, PFDS, PFUnDS, PFDoDS, PFTrDS; |
| 54 | **PESTICIDES, PHARMACEUTICALS, PERSONAL CARE PRODUCTS and METABOLITES:** Acebutulol, acesulfam, acetochlor, acetochlor ESA, acetochlor OA, aclonifen, alachlor, alachlor ESA, alachlor OA, atenolol, atrazine, atrazine-desethyl, azoxystrobin, benzotriazole, benzotriazole-5-methyl, benzotriazole-1-methyl, bezafibrate, bifenox, bifenthrin, bisphenol A, bisphenol B, bisphenol S, bisoprolol, butachlor ESA, butylparaben, caffeine, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine 10,11-epoxide, carbamazepine 2-hydroxy, celiprolol, clarithromycin, climbazole, clindamycin, clofibric acid, cyclamate, cyclophosphamide, DEET, deltamethrin, diclofenac, diclofenac-4'-hydroxy, dichlorvos, dimethachlor, dimethachlor ESA, dimethachlor OA, diuron, erythromycin, ethofumesate, ethylparaben, fluconazole, furosemide, gabapentin, gemfibrozil, hydrochlorothiazide, chloramphenicol, chlorfenvinphos, chlorpyriphos, ibuprofen, ibuprofen-2-hydroxy, ibuprofen-carboxy, iohexol, iomeprol, iopamidol, iopromid, irbesartan, irgarol, isoproturon, ivermectin, ketoprofen, lamotrigine, lincomycin, linuron, lovastatin, memantine, metazachlor, metazachlor ESA, metazachlor OA, methylparaben, metolachlor, metolachlor ESA, metolachlor OA, metoprolol, naproxene, naproxene o-desmethyl , octyl methoxycinnamate (OMC), oxcarbazepine, paracetamol, paraxantine, peniciline G, PFOA, PFOS, phenazone, primidone, prometryn, propachlor ESA, propachlor OA, propiconazole, propranolol, propylparaben, propyphenazone, propyzamide, quinoxyfen, roxithromycin, saccharin, salbutamol, sertraline, simazine, simvastatin, sotalol, sulfadiazine, sulfamerazine, sulfamethazine, sulfamethoxazole, sulfanilamide, sulfapyridine, terbuthylazine, terbutryn, thiamulin, tramadol, tri-allate, triclocarban, triclosan, trimetoprim, valsartan, valasartan acid, venlafaxine, warfarin;<br>**MICROCYSTIN:** microcystin LR, microcystin RR, microcystin YR;<br>**HBCDD:** HBCDD-alPHa, HBCDD-beta, HBCDD-gamma, HBCDD-mixture of isomers; |
| 55 | **PESTICIDES, PHARMACEUTICALS, PERSONAL CARE PRODUCTS and METABOLITES:** Acebutulol, acesulfam, acetochlor, acetochlor ESA, acetochlor OA, aclonifen, alachlor, alachlor ESA, alachlor OA, atenolol, atrazine, atrazine-desethyl, azoxystrobin, benzotriazole, benzotriazole-5-methyl, benzotriazole-1-methyl, bezafibrate, bifenox, bifenthrin, bisphenol A, bisphenol B, bisphenol S, bisoprolol, butachlor ESA, butylparaben, caffeine, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine 10,11-epoxide, carbamazepine 2-hydroxy, celiprolol, clarithromycin, climbazole, clindamycin, clofibric acid, cyclamate, cyclophosphamide, DEET, deltamethrin, diclofenac, diclofenac-4'-hydroxy, dichlorvos, dimethachlor, dimethachlor ESA, dimethachlor OA, diuron, |

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| Ordinal number | List of multicomponent determination parameters |
|---|---|
| | erythromycin, ethofumesate, ethylparaben, fluconazole, furosemide, gabapentin, gemfibrozil, hydrochlorothiazide, chloramphenicol, chlorfenvinphos, chlorpyriphos, ibuprofen, ibuprofen-2-hydroxy, ibuprofen-carboxy, iohexol, iomeprol, iopamidol, iopromid, irbesartan, irgarol, isoproturon, ivermectin, ketoprofen, lamotrigine, lincomycin, linuron, lovastatin, memantine, metazachlor, metazachlor ESA, metazachlor OA, methylparaben, metolachlor, metolachlor ESA, metolachlor OA, metoprolol, naproxene, naproxene o-desmethyl , octyl methoxycinnamate (OMC), oxcarbazepine, paracetamol, paraxantine, peniciline G, PFOA, PFOS, phenazone, primidone, prometryn, propachlor ESA, propachlor OA, propiconazole, propranolol, propylparaben, propyphenazone, propyzamide, quinoxyfen, roxithromycin, saccharin, salbutamol, sertraline, simazine, simvastatin, sotalol, sulfadiazine, sulfamerazine, sulfamethazine, sulfamethoxazole, sulfanilamide, sulfapyridine, terbuthylazine, terbutryn, thiamulin, tramadol, tri-allate, triclocarban, triclosan, trimetoprim, valsartan, valasartan acid, venlafaxine, warfarin;<br>**MICROCYSTIN:** microcystin LR, microcystin RR, microcystin YR;<br>**HBCDD:** HBCDD-alPHa, HBCDD-beta, HBCDD-gamma, HBCDD-mixture of isomers; |
| 56 | **PCB and OCP:** PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, Delor 103, Delor 106, 1,3,5-trichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, alachlor, aldrin, DDD - o,p´, DDD - p,p´, DDE - o,p´, DDE - p,p´, DDT - o,p´, DDT - p,p´, dieldrin, endosulfan-alpha, endosulfan-beta, endrin, heptachlor, heptachloroepoxide-cis, heptachloroepoxide-trans, hexachlorobenzene, hexachlorobutadiene, HCH-alpha, HCH-beta, HCH-delta, HCH-epsilon, HCH-gamma, chlorpyriphos, isodrin, methoxychlor, octachlorostyrene, pentachlorobenzene, trifluralin<br>**MUSK:** Cashmeran, celestolide, galaxolide, musk ambrette, musk ketone, musk NN, musk xylene, phantholide, tonalide, traseolide<br>**FT:** bis(2-ethylhexyl) phthalate, buthylbenzylphthalate, diethylphthalate, dimethylphthalate, di-n-buthylphthalate, di-n-octylphthalate;<br>**PESTICIDES:** dicofol<br>**PYRETHROIDS:** bifenthrin, cypermethrin, deltamethrin, esfenvalerate, permethrin<br>**PBDE and HBCDD:** BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-138, BDE-153, BDE-154, BDE-183, BDE-209, HBCDD<br>**CHLOROALKANES $C_{10}$-$C_{13}$** |
| 57 | **PCB and OCP:** PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, Delor 103, Delor 106, 1,3,5-trichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, alachlor, aldrin, DDD - o,p´, DDD - p,p´, DDE - o,p´, DDE - p,p´, DDT - o,p´, DDT - p,p´, dieldrin, endosulfan-alpha, endosulfan-beta, endrin, heptachlor, heptachloroepoxide-cis, heptachloroepoxide-trans, hexachlorobenzene, hexachlorobutadiene, HCH-alpha, HCH-beta, HCH-delta, HCH-epsilon, HCH-gamma, chlorpyriphos, isodrin, methoxychlor, octachlorostyrene, pentachlorobenzene, trifluralin<br>**MUSK:** Cashmeran, celestolide, galaxolide, musk ambrette, musk ketone, musk NN, musk xylene, phantholide, tonalide, traseolide<br>**FT:** bis(2-ethylhexyl) phthalate, buthylbenzylphthalate, diethylphthalate, dimethylphthalate, di-n-buthylphthalate, di-n-octylphthalate;<br>**PESTICIDES:** dicofol<br>**PYRETHROIDS:** bifenthrin, cypermethrin, deltamethrin, esfenvalerate, permethrin<br>**PBDE and HBCDD:** BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-138, BDE-153, BDE-154, BDE-183, BDE-209, HBCDD<br>**CHLOROALKANES $C_{10}$-$C_{13}$** |