NÁRODNÍ AKREDITAČNÍ ORGÁN

EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

# CERTIFICATE OF ACCREDITATION

No. **319 / 2016**

**ALS Czech Republic, s.r.o.**
**with registered office Na Harfě 336/9, 190 00 Praha 9 - Vysočany, Company Registration No. 27407551**

to the Testing Laboratory No. **1163**

Scope of accreditation:

Chemical, radiochemical and microbiological analyses of water, water extracts, liquids, soils, waste, sludge, oils, sediments, rocks, solid samples, emissions, immissions, working environment, gases from biogas stations and landfill gases, biological materials, food, feedstuffs, lubricants, fules, ecotoxicological testing of waste and water, sensory analyses of food; sampling of water, sediments, soils, food and working environment to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2005

In its activities performed within the scope and for the period of validity of this Certificate, the Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 819/2015 of 30 November 2015, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **2 March 2017**

Prague: 25 May 2016

Český institut pro akreditaci, o.p.s.
-1-

Jiří Růžička
Director
Czech Accreditation Institute
Public Service Company

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

**ALS Czech Republic, s.r.o.**
Na Harfě 336/9, 190 00 Praha 9 – Vysočany

## Testing Laboratory's Workplaces:

| | | |
|---|---|---|
| 1 | Prague | Na Harfě 336/9, 190 00 Prague 9 |
| 2 | Česká Lípa | Bendlova 1687/7, 470 01 Česká Lípa |
| 3 | Pardubice | V Ráji 906, 530 02 Pardubice |
| 10 | Praha | Na Harfě 916/9a, 190 00 Praha 9 |

## Contact and Sampling Points:

| | | |
|---|---|---|
| 4 | Brno | Staňkova 103/18, 602 00 Brno |
| 5 | Ostrava | Vratimovská 11, 718 00 Ostrava |
| 6 | Plzeň | Lobezská 15, 301 46 Plzeň [Pilsen] |
| 7 | Lovosice | U Zdymadel 827, 410 02 Lovosice |
| 8 | Rožnov pod Radhoštěm | 1. Máje 2625, 756 61 Rožnov pod |

**Contact Point**

| | | |
|---|---|---|
| 9 | Kroměříž | Na Sádkách 3478/4a, 767 01 Kroměříž |

*The Laboratory meets the requirements for periodic emission measurements as per ČSN P CEN/TS 15675:2009 for testing and collecting samples marked with ordinal number and symbol E.*

*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.*

*The current list of own activities conducted within the flexible range are available at the Laboratory from the Quality Manager.*

*The Laboratory is qualified to provide expert opinions and interpretations of test results.*

## Tests: GENERAL CHEMISTRY

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 1 [1)] | Determination of elements[47)] by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values[51)] including the calculation of total mineralization and calculating the sum of Ca+Mg | CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, ČSN EN 16192, US EPA 6010, SM 3120, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 and 10.2) | water, extracts, liquid samples |
| 2 [1)] | Determination of elements[47)] by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values[52)] | CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, US EPA 6010, SM 3120, samples prepared as per CZ_SOP_D06_02_J02 (US EPA 3050) chap.10.3 to 10.16, 10.17.5, 10.17.6, 10.17.9 to 10.17.14) | solid samples |
| 3 [1)] | Determination of elements[47)] by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of | CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, samples prepared as per CZ_SOP_D06_02_J02 | food, animal feeding stuff |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| | compounds concentration from measured values[53)] | chap.10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8.) | |
| 4 [1)] | Determination of elements[47)] by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values[53)] | CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, samples prepared as per CZ_SOP_D06_02_J02 chap.10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) | biological material |
| [E]5 [1)] | Determination of elements[47)] by atomic emission spectrometry with inductively coupled plasma and determination of $Cr^{3+}$ by calculation from measured values | CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, ČSN EN 13211, ČSN EN 14385, ČSN EN 14902 IO 3.4, US EPA 29, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1, 10.2, 10.16.1 - 10.16.4) | emission, imission |
| 6 [1)] | Determination of elements[47)] by inductively coupled plasma atomic emission spectrometry | CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, ČL/PhEur/USP, samples prepared as per CZ_SOP_D06_02_J02 chap.10.20) | pharmaceutical materials |
| 7 [1)] | Determination of elements [41)] by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values[51)] including the calculation of total mineralization and calculating the sum of Ca+Mg | CZ_SOP_D06_02_002 (US EPA 200.8, ČSN EN ISO 17294-2, US EPA 6020A, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 and 10.2) | water, extracts, liquid samples |
| 8 [1)] | Determination of elements [42)] by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_02_002 (US EPA 200.8, ČSN EN ISO 17294-2, US EPA 6020A, samples prepared as per CZ_SOP_D06_02_J02 chap.10.3 to 10.16, 10.17.5, 10.17.6, 10.17.9 to 10.17.14) | solid samples |
| 9 [1)] | Determination of elements [43)] by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_02_002 (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) | Food, animal feeding stuff |
| 10 [1)] | Determination of elements [44)] by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_02_002 (US EPA 200.8, ČSN EN ISO 17294-2, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) | biological material |
| [E]11 [1)] | Determination of elements [45)] by mass spectrometry with inductively coupled plasma and determination of $Cr^{3+}$ by calculation from measured values | CZ_SOP_D06_02_002 (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 13211, ČSN EN 14385, ČSN EN 14902 US EPA 29, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1, 10.2, 10.16.1 - 10.16.4) | emission, imission |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 12 [1)] | Determination of elements[60)] by inductively coupled plasma mass spectrometry | CZ_SOP_D06_02_002 (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111, ČL/PhEur/USP, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.20) | pharmaceutical materials |
| [E]13 [1)] | Determination of Hg by atomic absorption spectrometry | CZ_SOP_D06_02_003 (ČSN 46 5735, ČSN 75 7440, ČL, PhEur, USP, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 to 10.17.14, 10.20) | water, extracts, liquid samples, solid samples, food, animal feeding stuff, biological material, emission, imission, pharmaceutical material |
| 14 [2)] | Determination of Hg by single-purpose atomic absorption spectrometer | CZ_SOP_D06_07_004 (ČSN 75 7440, ČSN 46 5735, samples prepared as per CZ_SOP_D06_07_P02 chap. 10-13, 16, 20) | water, extracts, liquid samples, solid samples |
| 15 [2)] | Determination of elements[49)] by flame AAS method and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_07_005 (ČSN ISO 8288, ČSN 75 7400, ČSN EN 1233, ČSN ISO 7980, ČSN ISO 9964, Perkin-Elmer specifications, samples prepared as per CZ_SOP_D06_07_P02 chap. 10, 13, 17) | water, extracts |
| 16 [2)] | Determination of elements[49)] by flame AAS method and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_07_005 (ČSN ISO 8288, ČSN 75 7400, ČSN EN 1233, ČSN ISO 7980, ČSN ISO 9964, Perkin-Elmer specifications, samples prepared as per CZ_SOP_D06_07_P02 chap. 11-12, 14-16, 19) | solid samples |
| 17 [2)] | Determination of elements[50)] by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_07_006 (ČSN EN ISO 11885 AITM3-0032 samples prepared as per CZ_SOP_D06_07_P02 chap. 10, 13, 17) | water, extracts, liquid samples |
| 18 [2)] | Determination of elements[50)] by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_07_006 (ČSN EN ISO 11885 samples prepared as per CZ_SOP_D06_07_P02 chap. 11-12, 14-16, 19) | solid samples |
| 19 [2)] | Determination of Kjeldahl nitrogen by spectrophotometry | CZ_SOP_D06_07_007.A (ČSN EN 25663, ČSN ISO 7150-1) | water, extracts |
| 20 [2)] | Determination of Kjeldahl nitrogen by spectrophotometry | CZ_SOP_D06_07_007.B (ČSN EN 25663, ČSN EN 13342, ČSN ISO 7150-1) | solid samples |
| [E]21 [2)] | Determination of Cr(VI) by spectrophotometry with diphenylcarbazide | CZ_SOP_D06_07_008 (ČSN ISO 11083) | water, extracts, absorption solutions from emission samples |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 22 [2)] | Determination of total phosphorus and orthophosphate by spectrophotometry and $P_2O_5$ determination by calculation from measured values | CZ_SOP_D06_07_009.A (ČSN EN ISO 6878) | water, extracts |
| 23 [2)] | Determination of total phosphorus by spectrophotometry and $P_2O_5$ determination by calculation from measured values | CZ_SOP_D06_07_009.B (ČSN EN 14672, ČSN EN ISO 6878) | sludge, technological sludge products |
| 24 [2)] | Determination of total cyanide by spectrophotometry and determination of complex cyanides by calculation from measure values | CZ_SOP_D06_07_010 (ČSN 75 7415) | water, extracts |
| 25 [2)] | Determination of easily releasable cyanide (free cyanide) by spectrophotometry | CZ_SOP_D06_07_011 ČSN ISO 6703-2 | water, extracts |
| 26 [2)] | Determination of total cyanide by spectrophotometry and determination of complex cyanides by calculation from measure values | CZ_SOP_D06_07_012.A (ČSN 75 7415, SM 4500 CN) | solid samples |
| [E]27 [2)] | Determination of total cyanide by spectrophotometry and hydrogen cyanide determination by calculation from measured values | CZ_SOP_D06_07_012.B (ČSN 75 7415) | absorption solutions from emission samples |
| 28 [2)] | Determination of easily releasable cyanide (free cyanide by spectrophotometry | CZ_SOP_D06_07_013 (ČSN ISO 6703-2) | solid samples |
| 29 [2)] | Determination of fluoride by electrochemical method (ISE) | CZ_SOP_D06_07_014 (ČSN ISO 10359-1, SM 4500-$F^-$ C) | water, extracts |
| 30 [2)] | Determination of the sum of sulfane and sulfide by spectrophotometry and determination of free sulfane by calculation from measured values | CZ_SOP_D06_07_015.A (ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31, SM 4500-$S^{2-}$ D) | water, extracts |
| 31 [2)] | Determination of the sum of sulfane and sulfide by spectrophotometry | CZ_SOP_D06_07_015.B (ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31) | solid samples |
| [E]32 [2)] | Determination of the sum of sulfane and sulfide by spectrophotometry | CZ_SOP_D06_07_015.C (ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31, ČSN 83 4712 No. 3) | absorption solutions from emission samples |
| 33 [1)] | Determination of sulfate by turbidimetry using discrete spectrophotometry and sulfate sulfur determination by calculation from measured values | CZ_SOP_D06_02_016 (US EPA 375.4, SM 4500-$SO_4^{2-}$) | water, extracts |
| 34 [2)] | Determination of sulfate by gravimetry | CZ_SOP_D06_07_017 (Uniform Methods of Chemical Analysis of Water, SNTL Prague 1965) | water, extracts |
| 35 [1)] | Determination of fluoride by discrete spectrophotometry | CZ_SOP_D06_02_018 (US EPA 340.1) | water, extracts |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 36 [1)] | Determination of the sum of ammonia and ammonium, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and determination of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium by calculation from measured values including the calculation of total mineralization | CZ_SOP_D06_02_019 (ČSN EN ISO 11732, ČSN EN ISO 13395, ČSN EN 16192, SM 4500-$NO_2^-$, SM 4500-$NO_3^-$) | water, extracts |
| 37 [2)] | Determination of the sum of ammonia and ammonium by spectrophotometry and determination of ammonia nitrogen, free ammonia and dissociated ammonium by calculation from measured values | CZ_SOP_D06_07_020 (ČSN ISO 7150-1) | water, extracts |
| 38 [2)] | Determination of nitrite by spectrophotometry and determination of nitrite nitrogen by calculation from measured values | CZ_SOP_D06_07_021 (ČSN EN 26777) | water, extracts |
| 39 [1)] | Determination of orthophosphate by discrete spectrophotometry and determination of orthophosphate's phosphorus by calculation from measured values including the calculation of total mineralization | CZ_SOP_D06_02_022 (ČSN EN ISO 6878, SM 4500-P) | water, extracts |
| 40 [2)] | Determination of chloride by potentiometric titration | CZ_SOP_D06_07_023.A (ČSN 03 8526:2003, ČSN 83 0530:2000 No. 20, SM 4500-$Cl^-$ D) | water, extracts, liquid samples |
| 41 [2)] | Determination of chloride by potentiometric titration | CZ_SOP_D06_07_023.B (ČSN EN 480-10) | solid samples |
| 42 [2)] | Determination of non-ionic surfactants (BiAS) by spectrophotometry | CZ_SOP_D06_07_024 (ČSN ISO 7875-2) | water, extracts |
| 43 [2)] | Determination of extractable organically bound halogens (EOX) by coulometry | CZ_SOP_D06_07_025.A (DIN 38409-H8, DIN 38414-S17) | water, extracts |
| 44 [2)] | Determination of extractable organically bound halogens (EOX) by coulometry | CZ_SOP_D06_07_025.B (DIN 38409-H8, DIN 38414-S17) | solid samples |
| 45 [2)] | Determination of adsorbable organically bound halogens (AOX by coulometry) | CZ_SOP_D06_07_026 (ČSN EN 16166, DIN 38414-S18) | solid samples |
| 46 [2)] | Determination of total halogens (TX) by coulometry | CZ_SOP_D06_07_027 (US EPA Method 9076) | solid samples, oils, organic solvents |
| 47 [2)] | Determination of adsorbable organically bound halogens (AOX) by coulometry | (CZ_SOP_D06_07_028) ČSN EN ISO 9562, TNI 757531 | water, extracts |
| 48 [2)] | Determination of phenol index by spectrophotometric method after distillation | CZ_SOP_D06_07_029 (ČSN ISO 6439) | solid samples |
| [E]49 [2)] | Determination of phenol index by spectrophotometric method after distillation | CZ_SOP_D06_07_030 (ČSN ISO 6439) | water, extracts, absorption solutions from emission samples |

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|---|---|---|---|
| 50 [2)] | Determination of anionic surfactants by measurement of the methylene blue index (MBAS) by spectrophotometry | CZ_SOP_D06_07_031 (ČSN EN 903, SM 5540 C) | water, extracts |
| 51 [2)] | Determination of absorbance and transmittance by spectrophotometry | CZ_SOP_D06_07_032 (ČSN 75 7360) | water, extracts |
| 52* [1) 2) 4)5)6)7)8)] | Determination of turbidity by measurement of intensity of scattered radiation | CZ_SOP_D06_07_033 (ČSN EN ISO 7027) | water, extracts |
| 53 [2)] | Determination of humic substances by spectrophotometry | CZ_SOP_D06_07_034 (ČSN 75 7536) | drinking, surface water |
| 54 [2)] | Determination of water colour by visual and spectrophotometric method | CZ_SOP_D06_07_035 (ČSN EN ISO 7887) | water, extracts |
| 55 [2)] | Determination of electrical conductivity | ČSN EN 27888 | water, extracts |
| 56 [2)] | Determination of pH electrochemically | ČSN ISO 10523 | water, extracts |
| 57 [2)] | Determination of base neutralizing capacity (acidity) by potentiometric titration | CZ_SOP_D06_07_038 (ČSN 75 7372) | water, extracts |
| 58 [2)] | Determination of acid neutralizing capacity (alkalinity) by potentiometric titration | CZ_SOP_D06_07_039 (ČSN EN ISO 9963-1) | water, extracts |
| 59 [2)] | Determination of chemical oxygen demand using dichromate ($COD_{Cr}$) by titration | CZ_SOP_D06_07_040 (ČSN ISO 6060) | water, extracts |
| 60 [2)] | Biodegradation of organic compounds in aqueous medium – Static test (Zahn-Wellens method) calculated from the measured values of $COD_{Cr}$) | ČSN EN ISO 9888 and OECD 302B , $COD_{Cr}$ determination according to CZ_SOP_D06_07_040 (ČSN ISO 6060) | chemicals and chemical products, water and waste leachate |
| 61 [2)] | Determination of analytical water and gross water by gravimetry and determination of total water by calculation from measured values | CZ_SOP_D06_07_041 (ČSN 441377, ČSN EN ISO 18134-1, ČSN EN ISO 18134-2, ČSN EN ISO 18134-3, ČSN P CEN/TS 15414-1, ČSN P CEN/TS 15414-2, ČSN EN 15414-3) | solid fossil fuels, solid biofuels, solid recovered fuels |
| 62 [2)] | Determination of biochemical oxygen demand after n days ($BOD_n$) - Part 1: Dilution method with addition of allylthiourea | CZ_SOP_D06_07_042 (ČSN EN 1899-1) | water, extracts |
| 63 [2)] | Biodegradation of organic compounds in aqueous medium – Method for determination of biological oxygen demand in a closed bottle calculated from measured values of BOD | ČSN ISO 10707, Z1 and OECD 301D, BOD determination according to CZ_SOP_D06_07_042 (ČSN EN 1899-1) | chemicals and chemical products, water and waste leachate |
| 64 [2)] | Determination of biochemical oxygen demand after n days ($BOD_n$) - Part 2: Method for undiluted samples | CZ_SOP_D06_07_043 (ČSN EN 1899-2) | water, extracts |
| 65* [1) 2)4)5)67)8)] | Determination of dissolved oxygen by electrochemical method | CZ_SOP_D06_07_044 (ČSN EN ISO 5814) | water, extracts |
| 66 [1)] | Determination of dry matter by gravimetry and determination of moisture by calculation from measured values | CZ_SOP_D06_01_045 (ČSN ISO 11465) | solid samples |

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|---|---|---|---|
| 67 [2)] | Determination of dry matter by gravimetry and determination of moisture by calculation from measured values | CZ_SOP_D06_07_046 (ČSN ISO 11465) | solid samples |
| 68 [2)] | Determination of ash by gravimetry and determination of loss on ignition by calculation from measured values | CZ_SOP_D06_07_047.A (ČSN EN 15169, ČSN EN 15935, ČSN EN 13039, ČSN 72 0103, ČSN 46 5735) | solid samples |
| 69 [2)] | Determination of ash by gravimetry and determination of loss on ignition by calculation from measured values | CZ_SOP_D06_07_047.B (ČSN EN ISO 3451-1) | plastics |
| 70 [2)] | Determination of ash by gravimetry and determination of loss on ignition by calculation from measured values | CZ_SOP_D06_07_047.C (ČSN ISO 1171, ČSN EN 14775, ČSN EN 15403, ČSN EN ISO 6245) | solid and liquid fuels |
| 71 [1)] | Determination of total nitrogen by the method of discrete spectrophotometry after mineralization with peroxodisulfate | CZ_SOP_D06_02_048 (ČSN EN ISO 11905-1) | water, extracts |
| 72 [2)] | Determination of dry residue by gravimetry and determination of water content by calculation from measured values | ČSN EN 12880 | sludge and technological sludge products |
| 73 [2)] | Determination of water content by Karl Fischer method | CZ_SOP_D06_07_050 (ČSN ISO 760) | liquid samples, solid samples |
| 74 [2)] | Determination of ignition residue after ignition by gravimetry and determination of loss on ignition by calculation from measured values | ČSN 72 0103 | silicate materials |
| 75 [2)] | Determination of suspended solids, fixed suspended solids, total solids and fixed total solids by gravimetry and determination of volatile suspended solids and volatile total solids by calculation from measured values | CZ_SOP_D06_07_052 (ČSN 75 7350, SM 2540 B, SM 2540 D, SM 2540 E) | water, extracts |
| 76 [2)] | Determination of suspended solids using glass fibre filters by gravimetry | ČSN EN 872 | water, extracts |
| 77 [2)] | Determination of dissolved solids and fixed dissolved solids using glass fiber filters by gravimetry and determination of volatile dissolved solids by calculation from measured values | CZ_SOP_D06_07_054 (ČSN 75 7346, ČSN 75 7347) | water, extracts |
| 78 [2)] | Determination of total sulfur (TS), total carbon (TC) and inorganic carbon (TIC) by coulometry and determination of total organic carbon (TOC) and carbonate by calculation from measured values | CZ_SOP_D06_07_055 (ČSN ISO 10694, ČSN EN 13137, ČSN EN 15936) | solid samples |
| 79 [1)] | Determination of total organic carbon (TOC), dissolved organic carbon (DOC), total inorganic carbon (TIC) and total organ (TC) by IR detection | CZ_SOP_D06_02_056 (ČSN EN 1484, ČSN EN 16192, SM 5310) | water, extracts |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 80 [1)] | Determination of non-polar extractives by infrared spectrometry and calculation of polar extractives from measured values | CZ_SOP_D06_02_057 (ČSN 75 7505:2006, STN 830540-4, US EPA 418.1, SM 5520 F, DS/R 209, SFS 3010) | water, extracts |
| 81 [1)] | Determination of extractives and non-polar extractives by infrared spectrometry method and calculation of polar extractives from measured values | CZ_SOP_D06_02_058 (ISO/TR 11046, US EPA 418.1, SM 5520 F, DS/R 209, SFS 3010) | solid samples |
| 82 [1)] | Determination of extractives by infrared spectrometry method and calculation of polar extractives from measured values | CZ_SOP_D06_02_059 (ČSN 75 7506, STN83 0520-27, STN 83 0530-36a, STN 83 0540-4, SFS 3010) | water, extracts |
| 83 [1)] | Determination of alpha modification of silicon dioxide in respirable dust by infrared spectrometry | CZ_SOP_D06_02_060 (NIOSH 7602) | dust |
| 84* [1)2)4)5)6)7)8)] | Field determination of free and total chlorine and chlorine dioxide by DPD method using HACH sets and bound chlorine by calculation from measured values | CZ_SOP_D06_07_061 (method used by HACH COMPANY, USA, ČSN ISO 7393-2) | drinking water, hot water, raw water |
| 85* [1)2)4)5)6)7)8)] | Field measurement of temperature | ČSN 75 7342 | water |
| 86* [1)2)4)5)67)8))] | Field measurement of electrical conductivity | CZ_SOP_D06_07_063 (ČSN EN 27888) | water |
| 87* [1)2)4)5)6)7)8)] | Field determination of pH electrochemically | CZ_SOP_D06_07_064 (ČSN ISO 10523) | water |
| 88 [1)] | Sensory analysis of water – determination of odour and taste | CZ_SOP_D06_04_065 (TNV 75 7340, ČSN EN 1622, STN EN 1622) | drinking water |
| 89 [1)] | Determination of the sum of ammonium ions by flow injection analysis (FIA) with spectrophotometric detection and determination of ammonia nitrogen and free ammonia by calculation from measured values | CZ_SOP_D06_02_066 (ČSN ISO 11732) | water, extracts |
| 90 [1)] | Determination of orthophosphate by flow injection analysis (FIA) with spectrophotometric detection and determination of orthophosphates phosphorus by calculation from measured values | CZ_SOP_D06_02_067 (ČSN EN ISO 15681-1) | water, extracts |
| 91 [1)] | Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and determination of nitrite nitrogen and nitrate nitrogen and sulfate sulfur by calculation from measured values including the calculation of total mineralization | CZ_SOP_D06_02_068 (ČSN ISO 10304-1, ČSN EN 16192) | water, extracts |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 92 [1)] | Determination of total carbon (TC), total organic carbon (TOC) by IR detection and determination of total inorganic carbon (TIC) and carbonate by calculation from measured values | CZ_SOP_D06_02_069 (ČSN EN 13137 ČSN ISO 10694) | solid samples |
| 93 [1)] | Determination of dry suspended solids and annealed suspend solids by gravimetry and determination of loos of ignition of suspend solids and total solids by calculation from measured values | CZ_SOP_D06_02_070 (ČSN EN 872, ČSN 757350) | water, extracts |
| 94 [1)] | Determination of dissolved solids (RL105) and dissolved solid annealed (RAS) using glass fibre filters by gravimetry and determination of loss on ignition of dissolved solids (RL550) by calculation from measured values | CZ_SOP_D06_02_071 (ČSN 75 7346, ČSN 757347, ČSN EN 16192) | water, extracts |
| 95 [1)] | Determination of acid neutralizing capacity (alkalinity) by potentiometric titration and determination of the carbonate hardness and determination of $CO_2$ forms by calculation from measured values including the calculation of total mineralization | CZ_SOP_D06_02_072 (ČSN EN ISO 9963-1, SM 2320) | water, extracts |
| 96 [1)] | Determination of base neutralizing capacity (acidity) by potentiometric titration | CZ_SOP_D06_02_073 (ČSN 75 7372) | water, extracts |
| 97 [1)] | Determination of turbidity by optical turbidimeter | CZ_SOP_D06_02_074 (ČSN EN ISO 7027) | water, extracts |
| 98 [1)] | Determination of electrical conductivity by conductometer and calculation of salinity | CZ_SOP_D06_02_075 (ČSN EN 27 888, SM 2520 B, ČSN EN 16192) | water, extracts |
| 99 [1)] | Determination of chemical oxygen demand using dichromate ($COD_{Cr}$) by photometry | CZ_SOP_D06_02_076 (ČSN ISO 15705) | water, extracts |
| 100 [1)] | Determination of chemical oxygen demand using dichromate ($COD_{Cr}$) by titration | CZ_SOP_D06_02_076.A (ČSN ISO 15705) | water, extracts |
| 101 [1)] | Determination of biochemical oxygen demand after n days (BODn) by dilution method with allylthiourea addition | CZ_SOP_D06_02_077 (ČSN EN 1899-1) | water, extracts |
| 102 [1)] | Determination of biochemical oxygen demand after n days (BODn) by method for undiluted samples | CZ_SOP_D06_02_078 (ČSN EN 1899-2) | water, extracts |
| 103 [1)] | Determination of colour by spectrometry | CZ_SOP_D06_02_079 (ČSN EN ISO 7887) | water, extracts |
| 104 [1)] | Determination of total phosphorus by discrete spectrophotometry and determination of phosphorus as $P_2O_5$ and $PO_4^{3-}$ by calculation from measured values | CZ_SOP_D06_02_080 (ČSN EN ISO 6878, ČSN EN ISO 15681-1) | water, extracts |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 105 [1)] | Determination of nitrite nitrogen and sum of nitrite and nitrate nitrogen by flow analysis with spectrophotometric detection and determination of nitrite, nitrate, inorganic, organic and total nitrogen by calculation from measured values | CZ_SOP_D06_02_081 (ČSN EN ISO 13395) | water, extracts |
| [E]106 [2)] | Determination of chloride in absorption solution from emission sample of inorganic compounds of chlorine by potentiometric titration and hydrogen chloride determination by calculation from measured values | CZ_SOP_D06_07_082 (ČSN EN 1911) | absorption solutions from emission sampling |
| [E]107 [2)] | Determination of fluoride in absorption solution from emission sample of inorganic compounds of fluorine after separation by distillation by direct potentiometry and hydrogen fluoride determination by calculation from measured values | CZ_SOP_D06_07_083 (ČSN 83 4752, Part 3) | absorption solutions from emission sampling |
| [E]108 [2)] | Determination of sulfate in absorption solution from emission sample of sulfur dioxide by titration method and sulfur dioxide determination by calculation from measured values | CZ_SOP_D06_07_084 (ČSN EN 14791) | absorption solutions from emission sampling |
| [E]109 [2)] | Determination of ammonia in absorption solution from emission sample by photometry after distillation | CZ_SOP_D06_07_085 (ČSN 83 4728, Part 4) | absorption solutions from emission sampling |
| 110 [1)] | Determination of total phosphorus by flow injection analysis with spectrophotometric detection | CZ_SOP_D06_02_086 (ČSN EN ISO 6878) | water, extracts |
| 111 [2)] | Determination of pH, temperature and electrical conductivity by column test | CZ_SOP_D06_07_087 (ČSN PCEN/TS 14405, ČSN ISO 10523, ČSN EN 27888) | solid samples |
| 112 [2)] | Determination of pH, temperature and electrical conductivity by two stage batch test | CZ_SOP_D06_07_088 (ČSN EN 12457-3, ČSN ISO 10523, ČSN 75 7342, ČSN EN 27888) | solid samples |
| 113 [1)] | Determination of total cyanide by spectrophotometry and determination of complex forming cynides by calculation from measured values | CZ_SOP_D06_02_089.A (ČSN 75 7415, ČSN EN ISO 14403-2) | water, extracts |
| 114 [1)] | Determination of total cyanide by spectrophotometry and determination of complex forming cynides by calculation from measured values | CZ_SOP_D06_02_089.B (ČSN 757415, ČSN EN ISO 17380, ČSN EN ISO 14403-2) | solid samples |
| 115 [1)] | Determination of easily releasable cyanide (free cyanide) and cyanide dissociated by weak acid by spectrophotometry | CZ_SOP_D06_02_090.A (ČSN ISO 6703-2, ČSN EN ISO 14403-2, SM 4500 CN) | water, extracts |
| 116 [1)] | Determination of easily releasable cyanide (free cyanide) and cyanide dissociated by weak acid by spectrophotometry | CZ_SOP_D06_02_090B (ČSN 757415, ČSN EN ISO 17380, ČSN EN ISO 14403-2, SM 4500 CN) | solid samples |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 117 [1)] | Determination of fluoride by electrochemical method (ISE) | CZ_SOP_D06_02_091 (ČSN ISO 10359-1, SM 4500-$F^-$ C) | water, extracts |
| 118 [1)] | Determination of chemical oxygen demand using permanganate ($COD_{Mn}$) by titration | CZ_SOP_D06_02_092 (ČSN EN ISO 8467, Z1) | water, extracts |
| 119 [1)] | Determination of Kjeldahl nitrogen in water | CZ_SOP_D06_02_093 (ČSN EN 25663) | water, extracts |
| 120 [1)] | Determination of bound nitrogen (TNb), following oxidation to nitrogen oxides by EC or IR detection | CZ_SOP_D06_02_094 (ČSN EN 12260) | water, extracts |
| 121 [1)] | Qualitative determination of asbestos fibre by polarization microscope | CZ_SOP_D06_02_095 (NIOSH 9002) | solid samples |
| 122 [1)] | Determination of Mercury by Fluorescence Spectrometry | CZ_SOP_D06_02_096 (US EPA 245.7, US EPA 1631, ČSN EN ISO 178 52, ČSN EN 16192, sample preparation according to CZ_SOP_D06_02_J02 chap.10.1 and 10.2) | water, extracts |
| 123 [1)] | Determination of Mercury by Fluorescence Spectrometry | CZ_SOP_D06_02_096 (ČSN EN ISO 17852, PSA Application Note 025, sample preparation according to CZ_SOP_D06_02_J02 chap. 10.3 to 10.16, 10.17.5, 10.17.6, 10.17.9 to 10.17.14) | solid samples |
| 124 [1)] | Determination of Mercury by Fluorescence Spectrometry | CZ_SOP_D06_02_096 (ČSN EN ISO 178 52, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) | biological material |
| [E]125 [1)] | Determination of Mercury by Fluorescence Spectrometry | CZ_SOP_D06_02_096 (ČSN EN ISO 17852, EN 13211, EN 1483 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) | emission, imission |
| 126 [1)] | Determination of mercury by fluorescence spectrometry method | CZ_SOP_D06_02_096 (US EPA 245.7, US EPA 1631, ČSN EN ISO 178 52, ČSN EN 16192, ČL/PhEur/USP, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.20) | pharmaceutical materials |
| 127 | Reserved | | |
| 128 [1)] | Determination of dissolved bromate, chlorate and chlorite by ion liquid chromatography method and determination of sum of chlorate and chlorite by calculation from measured values | CZ_SOP_D06_02_098 (ČSN EN ISO 15061, ČSN EN ISO 10304-4) | water, extracts |

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|---|---|---|---|
| 129 [1)] | Determination of chloride by discrete spectrophotometry | CZ_SOP_D06_02_099 (US EPA 325.1, SM 4500-$Cl^-$) | water, extracts |
| 130 [1)] | Determination of extractive substances by gravimetry | CZ_SOP_D06_02_100 (ČSN 75 7508, SM 5520) | water |
| 131 [2)] | Determination of reactive and non-labile aluminium by continuous flow analysis (CFA) spectrophotometrically and determination of labile aluminium by calculation from measured values | CZ_SOP_D06_07_101 (company method SKALAR) | drinking, surface, waste water |
| 132 [2)] | Determination of total nitrogen by modified Kjeldahl method by spectrometry | CZ_SOP_D06_07_102 (ČSN ISO 11261) | solid sample with silicate matrix containing organic compound |
| 133 [*1)2)4)5)6)7)8)] | Determination of oxidation-reduction potential (ORP) by potentiometry | CZ_SOP_D06_07_103 (ČSN 75 7367) | water |
| 134 [1)] | Determination of grease and oils by gravimetry (extraction after evaporation) | CZ_SOP_D06_02_104 (ČSN 75 7509) | water |
| 135 [1)] | Determination of pH by potentiometry | CZ_SOP_D06_02_105 (ČSN ISO 10523, US EPA 150.1, ČSN EN 16192, SM 4500-$H^+$ B) | water, extracts |
| 136 [1)] | Determination of hexavalent chromium by discrete spectrophotometry | CZ_SOP_D06_02_106 (ČSN ISO 11083, US EPA 7196A) | water, extracts |
| 137 [2)] | Determination of total nitrogen by modified Kjeldahl method | CZ_SOP_D06_07_107 (ČSN EN 25663, ČSN ISO 7150-1, SFS 5505) | water, extracts |
| 138 [1)] | Determination of settle able solids by volumetry | CZ_SOP_D06_02_108 (SM 2540 F) | water, extracts |
| 139 [1)] | Determination of dissolved silicates by discrete photometry and determination of $H_2SiO_3$ and total mineralization by calculation from measured values | CZ_SOP_D06_02_109 (ČSN EN ISO 16264, US EPA 370.1) | water, extracts |
| 140 [1)] | Determination of Chlorophyll by spectrophotometry | CZ_SOP_D06_02_110 (SM 10200 H) | surface water |
| 141 [2)] | Determination of nitrate nitrogen, ammonium nitrogen and total soluble nitrogen using calcium chloride solution as extractant by continuous flow analysis (CFA) spectrophotometrically | CZ_SOP_D06_07_111 (DIN ISO 14255) | solid samples |
| 142 [2)] | Determination of phosphorus soluble in sodium hydrogen carbonate solution spectrophotometrically | CZ_SOP_D06_07_112 (ČSN ISO 11263) | solid samples |
| 143 [2)] | Determination of pH electrochemically in the soils suspension in water, KCl, $CaCl_2$, $BaCl_2$ | CZ_SOP_D06_07_113 (ČSN ISO 10390, ČSN EN 13037, ČSN EN 15933, ČSN 46 5735 CHANGE 1, L 1086-1, US EPA Method 9045D; US EPA SW-846 Method 9040 (Liquid) and SW-846 Method 9045 (Soil)) | solid samples |

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|---|---|---|---|
| 144 [2)] | Determination of formaldehyde by spectrophotometry | CZ_SOP_D06_07_114 (Chemical and physical methods of water analysis, SNTL Prague 1989) | water, extracts |
| 145 [2)] | Determination of releasable formaldehyde by spectrophotometry | CZ_SOP_D06_07_115 (ČSN EN ISO 14184-1, PV 3925) | materials, solid samples |
| 146 [2)] | Determination of iron(II) by spectrophotometry | CZ_SOP_D06_07_116 (ČSN ISO 6332) | water, extracts |
| 147 [1)] | Determination of manganese(II) by discrete spectrophotometry | CZ_SOP_D06_02_117 (ČSN ISO 6333) | water, extracts |
| 148 [1)] | Determination of iron(II) by discrete spectrophotometry | CZ_SOP_D06_02_118 (SM 3500-Fe, ČSN ISO 6332) | water, extracts |
| 149 [1)] | Determination of aggressive carbon dioxide by the Heyer's method using calculation from alkalinity | CZ_SOP_D06_02_119 (ČSN 83 0530-14:2000) | water |
| 150 [2)] | Grain size analysis of solid samples using sieve analysis and laser diffraction | CZ_SOP_D06_07_120 (BS ISO 11277:2009) | solid samples (grain size lower than 63 mm) |
| 151 [2)] | Determination of nitrogen, carbon, sulfur and hydrogen by combustion method using TCD and determination of oxygen by calculation | CZ_SOP_D06_07_121 (methodology of Elementar Co., ČSN ISO 29541, ČSN EN ISO 16994, ČSN EN ISO 16948, ČSN EN 15407) | solid samples, waste, sludge, lubricants, animal feeding stuff, plants, digestates, solid fossil fuels, solid biofuels, solid recovered fuel, oils, liquid fuels, carbochemical products |
| 152 [1)] | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and trivalent chromium determination by calculation from measured values | CZ_SOP_D06_02_122 (ČSN EN 16192, EPA 7199, SM 3500-Cr, except chap. 10.2; 11.3.2; 11.5; 12.2.2; 15.5) | water, extracts |
| 153 [1)] | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and trivalent chromium determination by calculation from measured values | CZ_SOP_D06_02_122 except chap. 10.1; 11.3.1; 12.2.1; 15.4 (ČSN EN 15192, EPA 3060A) | solid samples |
| 154 [2)] | Determination of weak acid dissociated (WAD) cyanide by spectrophotometry | CZ_SOP_D06_07_123.A (SM 4500 $CN^-$) | water, extracts |
| 155 [2)] | Determination of weak acid dissociated (WAD) cyanide by spectrophotometry | CZ_SOP_D06_07_123.B (SM 4500 $CN^-$) | solid samples |
| 156 [2)] | Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor by calculation from measured values | CZ_SOP_D06_07_124.A (ČSN ISO 1928, ČSN EN 14918, ČSN EN 15400, ČSN EN 15170, ČSN DIN 51900-1, ČSN DIN 51900-2, ČSN DIN 51900-3) | solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge |
| 157 [2)] | Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor by calculation from measured values | CZ_SOP_D06_07_124.B (ČSN DIN 51900-1, ČSN DIN 51900-2, ČSN DIN 51900-3) | oils, liquid fuels, carbochemical products |

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|---|---|---|---|
| 158 [2)] | Determination of total chlorine, fluorine and sulphur by calculation from the measured values of chloride, fluoride and sulphate by IC method after burning the sample | CZ_SOP_D06_07_124.C (ČSN EN ISO 16994, ČSN EN 15408, ČSN EN 14582) with the determination of chloride, fluoride and sulfate by IC as per CZ_SOP_D06_02_068 | solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge |
| 159 [2)] | Determination of total chlorine, fluorine and sulphur by calculation from the measured values of chloride, fluoride and sulphate by IC method after burning the sample | CZ_SOP_D06_07_124.D with the determination of chloride, fluoride and sulfate by IC as per CZ_SOP_D06_02_068 | oils, liquid fuels, carbochemical products |
| 160 [2)] | Determination of laboratory compacted bulk density (LCBD) | CZ_SOP_D06_07_125 (ČSN EN 13040) | sludge, composts, soils meliorants and growth stimulants |
| 161 [2)] | Determination of electrical conductivity | CZ_SOP_D06_07_126 (ČSN EN 13038, ČSN ISO 11265, ČSN P CEN/TS 15937) | sludge, composts, soils, soil meliorants and growth stimulants, processed biowaste |
| [E]162 [1)] | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and trivalent chromium determination by calculation from measured values | CZ_SOP_D06_02_127 (ISO 16740, EPA 425) | emission, imission |
| [E]163 [1)] | Determination of nitrogen dioxide and sulfur dioxide in passive samplers by ion chromatography method and results recalculation to the volume of air | CZ_SOP_D06_02_128 (materials of Institute Fondazione Salvatore Maugeri, ČSN ISO 10304-1, ČSN EN ISO 10304-3) | emission, imission |
| 164 [1)] | Determination of sulphite by ion chromatography method | CZ_SOP_D06_02_129 (ČSN EN ISO 10304-3) | water, extracts |
| 165 [2)] | Determination of volatile matter by gravimetry | CZ_SOP_D06_07_130 (ČSN ISO 562, ČSN ISO 5071-1, ČSN EN 15148, ČSN EN 15402) | solid fossil fuels, solid biofuels, solid recovered fuels |
| 166 [2)] | Determination of sulphite after distillation by titration | CZ_SOP_D06_07_131 (*M. Horaková et al.: Chemical and physical methods of water analyses*) | water, extracts |
| 167 [2)] | Determination of respiratory activity ($AT_4$) using respirometer | CZ_SOP_D06_07_132 (ÖNORM S 2027-4) | wastes, sludge, composts, soils |
| 168* [1)2)4)5)6)7)8)] | Field determination of ozone using HACH sets | CZ_SOP_D06_07_133 (Method 8311 HACH Company, USA) | drinking water |
| [E]169 [1)] | Determination of fluoride, chloride and sulfate in absorption solution from emission sample by ion chromatographic method and determination of hydrogen fluoride, hydrogen chloride and sulfur dioxide by calculation from measured values | CZ_SOP_D06_02_134 (ČSN EN 1911, STN ISO 15713, ČSN EN 14791, ČSN EN ISO 10304-1) | emission |
| 170 [1)] | Determination of non-polar extractable compounds by UV spectrometry | CZ_SOP_D06_02_135 (ČSN 83 0540-4: 1998, STN 83 0540-4) | water, extracts |
| 171 [1)] | Determination of non-polar extractable compounds by UV spectrometry | CZ_SOP_D06_02_135 (ČSN 83 0540-4: 1998, STN 83 0540-4) | solid samples |

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|---|---|---|---|
| 172 [1)] | Determination of total dust concentration and respirable dust fraction by gravimetry and results recalculation to the volume of air | CZ_SOP_D06_02_136 (ČSN EN 481, ČSN EN 482, ČSN EN 689, NIOSH 0500, NIOSH 0600, GR No. 361/2007 Coll.) | working environment |
| 173 [2)] | Determination of $SiO_2$ in silicate materials after decomposition by gravimetry | CZ_SOP_D06_07_137 (ČSN 72 0105 No. 1) | solid samples |
| 174 [2)] | Determination of $P_2O_5$ in silicate materials after decomposition by spectrophotometry | CZ_SOP_D06_07_138 (ČSN 72 0116 No. 1) | solid samples |
| 175 [2)] | Determination of total sulfur in silicate materials after decomposition by gravimetry | CZ_SOP_D06_07_139 (ČSN 72 0118) | solid samples |
| 176 [1)2)4)5)6)7)8)] | Determination of $CO_2$ in mineral water by Härt analyzer | CZ_SOP_D06_01_140 (method according to Technosklo, s.r.o.) | mineral water |
| 177 [1)2)4)5)6)7)8)] | Analysis of gases – $CH_4$, $CO_2$, $O_2$, $H_2S$ – by Geotech gas analyzer and determination of $N_2$ by calculation from measured values | CZ_SOP_D06_01_141 (BIOGAS 5000 manual) | gases |
| 178 [1)2)4)5)6)7)8)] | Determination of moisture content by gas moisture content analyzer | CZ_SOP_D06_01_142 (ČSN EN 14790) | gases |

**Tests: ORGANIC CHEMISTRY**

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 179 [1)] | Determination of extractable compounds in the range of hydrocarbons C5 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection | CZ_SOP_D06_03_150 (ČSN EN 14039, US EPA 8015, US EPA 3550, TNRCC Method 1006) | solid samples |
| 180 [1)] | Determination of extractable compounds in the range of hydrocarbons C5 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection | CZ_SOP_D06_03_151 (ČSN EN ISO 9377-2, Z1, US EPA 8015, US EPA 3510, TNRCC Method 1006) | water, extracts |
| 181 [1)] | Determination of extractable compounds in the range of hydrocarbons C5 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection | CZ_SOP_D06_03_152 expect chap. 9.1 (TNRCC Method 1006, TNRCC Method 1005) | water, extracts, liquid samples |
| 182 [1)] | Determination of extractable compounds in the range of hydrocarbons C5 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection | CZ_SOP_D06_03_152 except chap. 9.2 (TNRCC Method 1006, TNRCC Method 1005) | solid samples |
| E183 [1)] | Determination of volatile organic compounds[1)] by gas chromatography method with detection FID and MS and calculation of volatile organic compounds sums from measured values and results recalculation to the volume of air | CZ_SOP_D06_03_153 (NIOSH[1)]) | solid sorbent |

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|---|---|---|---|
| E184 1) | Determination of volatile organic compounds[2)] by gas chromatography method with thermal desorption with detection FID and MS and calculation of volatile organic compounds sums from measured values and results recalculation to the volume of air | CZ_SOP_D06_03_154 (US EPA TO-17, ČSN EN ISO 16017-1) | solid sorbent |
| 185 1) | Determination of volatile organic compounds [3)] by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_155 except chap. 9.2 (US EPA 624, US EPA 8260, US EPA 8015, EN ISO 10301, MADEP 2004, rev. 1.1) | water, extracts |
| 186 1) | Determination of volatile organic compounds [3)] by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_155 except chap. 9.1 (US EPA 8260, US EPA 5021A, US EPA 5021, US EPA 8015, MADEP 2004, rev. 1.1, ISO 15009) | solid samples |
| 187 1) | Determination of volatile organic compounds[4)] by gas chromatography method with detection FID and ECD and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_156 except chap. 9.3 (US EPA 601, US EPA 8260, US EPA 8015, RBCA Petroleum Hydrocarbon Methods) | water, extracts |
| 188 1) | Determination of volatile organic compounds[4)] by gas chromatography method with detection FID and ECD and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_156 except chap. 9.1 and 9.2 (US EPA 8260, US EPA 8015, RBCA Petroleum Hydrocarbon Methods, ISO 15009) | solid samples |
| 189 1) | Determination of organic contaminants[5)] by gas chromatography method with MS detection (SPIMFAB) and calculation of organic contaminants sums from measured values | CZ_SOP_D06_03_157 except chap. 9.3 (SPIMFAB) | water |
| 190 1) | Determination of organic contaminants[5)] by gas chromatography method with MS detection (SPIMFAB) and calculation of organic contaminants sums from measured values | CZ_SOP_D06_03_157 except chap. 9.1 and 9.2 (SPIMFAB) | solid samples |
| 191 1) | Determination of phenols, chlorinated phenols and cresols[6)] by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values | CZ_SOP_D06_03_158 Except chap. 9.2 and 9.3 (US EPA 8041, US EPA 3500, ČSN EN 12673) | water |
| 192 1) | Determination of phenols, chlorinated phenols and cresols[6)] by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values | CZ_SOP_D06_03_158 except chap. 9.1 and 9.3 (US EPA 8041, US EPA 3500, DIN ISO 14154) | solid samples |
| E193 1) | Determination of phenols, chlorinated phenols and cresols[6)] by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values | CZ_SOP_D06_03_158 except chap. 9.1 and 9.2 (US EPA 8041, US EPA 3500, DIN ISO 14154) | emission, imission |

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|---|---|---|---|
| 194 [1)] | Determination of phthalates[7)] by gas chromatography method with MS detection and calculation of phthalates sums from measured values | CZ_SOP_D06_03_159 except chap. 9.2 and 9.3 (US EPA 8061A) | water |
| 195 [1)] | Determination of phthalates[7)] by gas chromatography method with MS detection and calculation of phthalates sums from measured values | CZ_SOP_D06_03_159 except chap. 9.1 (US EPA 8061A, CPSC-CH-C1000-09.3) | solid samples |
| 196 [1)] | Determination of phenols and cresols[40)] by gas chromatography method with MS detection and calculation of phenols and cresols sums from measured values | CZ_SOP_D06_03_160 (US EPA 8041A, US EPA 3500 except chap. 9.2) | water, extracts |
| 197 [1)] | Determination of phenols and cresols[40)] by gas chromatography method with MS detection and calculation of phenols and cresols sums from measured values | CZ_SOP_D06_03_160 (US EPA 8041A, US EPA 3500 except chap. 9.1) | solid samples |
| 198 [1)] | Determination of semi volatile organic compounds[9)] by gas chromatography-mass spectrometry or method with MS/MS detection and calculation of semi volatile organic compounds sums from measured values | CZ_SOP_D06_03_161 (US EPA 8270, ČSN EN ISO 6468, US EPA 8000C, sample preparation according to CZ_SOP_D06_03_P01 chap. 9.1, 9.4.1) | water, extracts |
| 199 [1)] | Determination of semi volatile organic compounds[9)] by gas chromatography-mass spectrometry or method with MS/MS detection and calculation of semi volatile organic compounds sums from measured values | CZ_SOP_D06_03_161 (US EPA 8270, ISO 18287, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.2, 9.3, 9.4.2) | solid samples |
| 200 [1)] | Determination of polycyclic aromatic hydrocarbons[10)] by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values | CZ_SOP_D06_03_162 (US EPA 550) | drinking water, table water, suckling water |
| 201 [1)] | Determination of polycyclic aromatic hydrocarbons[10)] by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values | CZ_SOP_D06_03_163 except chap. 9.1.2, 9.4.2 (US EPA 610) | water, extracts |
| 202 [1)] | Determination of polycyclic aromatic hydrocarbons[10)] by liquid chromatography method with FLD and PDA detection and calculation of polycyclic aromatic hydrocarbons sums from measured values | CZ_SOP_D06_03_163 except chap. 9.1.1, 9.4.1 (US EPA 610, US EPA 3550, ISO 13877) | solid samples |
| 203 [1)] | Determination of glycols [26)] by gas chromatography method with MS detection | CZ_SOP_D06_03_164 | water, cooling liquids, anti-freeze fluid |
| [E]204 [1)] | Determination of polycyclic aromatic hydrocarbons[10)] by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values and results recalculation to the volume of air | CZ_SOP_D06_03_165 (ISO 11338-2) | emission, imission |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 205 [1)] | Determination of polychlorinated biphenyls[39)]-congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values | CZ_SOP_D06_03_166 (DIN 38407, part 2, US EPA 8082, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) | water, extracts |
| 206 [1)] | Determination of polychlorinated biphenyls[39)]-congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values | CZ_SOP_D06_03_166 (US EPA 8082, ISO 10382 samples prepared as per CZ_SOP_D06_03_P01 chap. 9.2, 9.3, CZ_SOP_D06_03_P02 chap. 9.2, 9.3, 9.4) | solid samples, sealing material |
| 207 [1)] | Determination of alkylphenols and alkylphenol ethoxylates[28)] by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values | CZ_SOP_D06_03_167 (European Standard BT WI CSS99040) | solid samples |
| 208 [1)] | Determination of polychlorinated biphenyls[11)]-congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values | CZ_SOP_D06_03_168 (ČSN EN 12766-1, ČSN EN 61619) | oil hydrocarbons, used oils, insulating liquids |
| 209 [1)] | Determination of organochlorine pesticides[12)] and other halogen compounds[34)] by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values | CZ_SOP_D06_03_169 (ČSN EN ISO 6468, US EPA 8081, DIN 38407-2, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) | water, extracts |
| 210 [1)] | Determination of organochlorine pesticides and other halogen compounds[12)] by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values | CZ_SOP_D06_03_169 (US EPA 8081, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.2, CZ_SOP_D06_03_P02 chap. 9.2) | solid samples |
| 211 [1)] | Determination of organochlorine pesticides and other halogen compounds[12)] by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values | CZ_SOP_D06_03_169 (US EPA 8081, samples prepared as per CZ_SOP_D06_03_P02 chap. 9.5) | oils |
| [E]212 [1)] | Determination of organochlorine pesticides and other halogen compounds[12)] by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values | CZ_SOP_D06_03_169 (US EPA 8081, samples prepared as per CZ_SOP_D06_03_P02 chap. 9.6) | sorption materials |
| [E]213 [3)] | Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofuranes[13)] in emissions by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_170 (US EPA 23, US EPA 23A) | emission |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 214 [3)] | Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofuranes[13)] in imission by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_171<br>(US EPA TO-9A) | imission |
| [E]215 [3)] | Determination of coplanar polychlorinated biphenyls[14)] in stationary emission sources by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values | CZ_SOP_D06_06_172<br>(JIS K 0311, modified) | emission, imission |
| 216 [3)] | Determination of polychlorinated biphenyls[14)] by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values | CZ_SOP_D06_06_173<br>except chap. 8.2.11, 11.2.3.2 - 11.2.3.7, 11.2.4, 11.2.5<br>(US EPA 1668, modified) | water |
| 217 [3)] | Determination of polychlorinated biphenyls[14)] by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values | CZ_SOP_D06_06_173<br>except chap. 8.2.11, 11.2.3.1, 11.2.3.6, 11.2.3.7, 11.2.5<br>(US EPA 1668, modified) | solid samples |
| 218 [3)] | Determination of polychlorinated biphenyls[14)] by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values | CZ_SOP_D06_06_173<br>except chap. 8.2.11, 11.2.3.1 - 11.2.3.6, 11.2.3.7 b, c, d, g , h, i, j, k, m, n, 11.2.4<br>(US EPA 1668, modified) | biological matrices |
| 219 [3)] | Determination of polychlorinated biphenyls[14)] by isotope dilution method using HRGC-HRMS and calculation of PCB sum and TEQ parameter from measured values | CZ_SOP_D06_06_173<br>except chap. 11.2.3.1 - 11.2.3.5, 11.2.3.7 l, 11.2.4<br>(US EPA 1668, modified) | SPMD extracts, food, animal feeding stuff |
| [E]220[3)] | Determination of polychlorinated dibenzo-p-dioxins and dibenzofuranes[13)] in emission samples by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_174<br>(ČSN EN 1948-2, 1948-3) | emission |
| 221 [3)] | Determination of tetra- to octa-chlorinated dioxins and furanes[13)] by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_175<br>except chap. 8.2.1.1 B, 8.2.1.3 B, 8.2.1.5 B, C, D, 11.2.3.2 - 11.2.3.7, 11.2.4, 11.2.5<br>(US EPA 1613) | water |
| 222 [3)] | Determination of tetra- to octa-chlorinated dioxins and furanes[13)] by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_175<br>except chap. 8.2.1.1 B, 8.2.1.3 B, 8.2.1.5 B, C, D, 11.2.3.1, 11.2.3.6, 11.2.3.7, 11.2.5<br>(US EPA 1613) | solid samples |
| 223 [3)] | Determination of tetra- to octa- chlorinated dioxins and furanes[13)] by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_175<br>except chap. 8.2.1.1 A, 8.2.1.3 A, 8.2.1.5 A, 11.2.3.1 - 11.2.3.6, 11.2.3.7 b, c, d, g, h, i, j, k, m, n, 11.2.4<br>(US EPA 1613) | biological matrices |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 224 [3)] | Determination of tetra- to octa- chlorinated dioxins and furanes[13)] by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_175 except chap. 8.2.1.1 A, 8.2.1.3 A, 8.2.1.5 A, 11.2.3.1 - 11.2.3.5, 11.2.3.7 l, 11.2.4 (US EPA 1613) | SPMD extracts, food, animal feeding stuff |
| 225 [3)] | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofuranes (PCDF)[13)] using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_176 except chap. 8.2.1.1 B, 8.2.1.3 B, 8.2.1.5 B, C, D, 11.2.3.2 - 11.2.3.6, 11.2.4, 11.2.5 (US EPA 8290) | water |
| 226 [3)] | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofuranes (PCDF)[13)] using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_176 except chap. 8.2.1.1 B, 8.2.1.3 B, 8.2.1.5 B, C, D, 11.2.3.1, 11.2.3.6, 11.2.5 (US EPA 8290) | solid samples |
| 227 [3)] | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofuranes (PCDF)[13)] using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_176 except chap. 8.2.1.1 A, 8.2.1.3 A, 8.2.1.5 A, 11.2.3.1 - 11.2.3.5, 11.2.3.6 b, c, d, g, h, i, j, k, m, n, 11.2.4 (US EPA 8290) | biological matrices |
| 228 [3)] | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofuranes (PCDF)[13)] using HRGC-HRMS and calculation of TEQ parameters from measured values | CZ_SOP_D06_06_176 except chap. 8.2.1.1 A, 8.2.1.3 A, 8.2.1.5 A, 11.2.3.1 - 11.2.3.5, 11.2.3.6 l, 11.2.4 (US EPA 8290) | food, animal feeding stuff |
| 229 [3)] | Determination of selected brominated flammable retarders (BFR)[15)] by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values | CZ_SOP_D06_06_177 except chap. 10.2.3.2 - 10.2.3.7, 10.2.4, 10.2.5 (US EPA 1614) | water |
| 230 [3)] | Determination of selected brominated flammable retarders (BFR)[15)] by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values | CZ_SOP_D06_06_177 except chap. 10.2.3.1, 10.2.3.6, 10.2.3.7, 10.2.5 (US EPA 1614, ČSN EN ISO 22032) | solid samples |
| 231 [3)] | Determination of selected brominated flammable retarders (BFR)[15)] by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values | CZ_SOP_D06_06_177 except chap. 10.2.3.1 - 10.2.3.6, 10.2.3.7 b, c, d, g, h, i, j, k, m, n, 10.2.4 (US EPA 1614) | biological matrices |
| 232 [3)] | Determination of selected brominated flammable retarders (BFR)[15)] by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values | CZ_SOP_D06_06_177 except chap. 10.2.3.1 - 10.2.3.5, 10.2.3.7 l, 10.2.4 (US EPA 1614) | SPMD extracts, food, animal feeding stuff |
| 233 [1)] | Determination of alkylphenols and alkylphenol ethoxylates[16)] by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values | CZ_SOP_D06_03_178 (ISO 18857-2) | water |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| E234 3) | Determination of PCB[14)] in emission samples by isotope dilution method using HRGC-HRMS and calculation of PCB sums from measured values | CZ_SOP_D06_06_179 (ČSN EN 1948-4) | emission, imission |
| 235 3) | Determination of polyaromatic hydrocarbons[54)] by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values | CZ_SOP_D06_06_180 except chap. 11.3.3.1 - 11.3.3.5, 11.3.3.7 - 11.3.3.9, 11.3.5, 11.3.6.1 e (US EPA 429, ISO 11338, US EPA 3540) | solid samples |
| E236 3) | Determination of polyaromatic hydrocarbons[54)] by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values | CZ_SOP_D06_06_180 except chap. 11.3.3.6 - 11.3.3.9, 11.3.4, 11.3.5, 11.3.6.1 e (US EPA 429, ISO 11338) | emission, imission |
| 237 3) | Determination of polyaromatic hydrocarbons[54)] by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values | CZ_SOP_D06_06_180 except chap. 11.3.3.1 - 11.3.3.8, 11.3.3.9 b, c, d, g, h, i, j, k, m, n, 11.3.4 (US EPA 429, ISO 11338, IP 346) | biological matrices |
| 238 3) | Determination of polyaromatic hydrocarbons[54)] by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values | CZ_SOP_D06_06_180 except chap. 11.3.3.1 - 11.3.3.7, 11.3.3.9 l, 11.3.4 (US EPA 429, ISO 11338, IP 346) | SPMD extracts, food, animal feeding stuff |
| 239 3) | Determination of polyaromatic hydrocarbons[54)] by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values | CZ_SOP_D06_06_180 except chap. 11.3.3.1 - 11.3.3.6, 11.3.3.8, 11.3.3.9, 11.3.4, 11.3.5, 11.3.6.1 e (US EPA 429, ISO 11338, IP 346) | oils |
| 240 1) | Determination of semi-volatile organic compounds[27)] by isotopic dilution method using gas chromatography method with MS detection and calculation of semi-volatile organic compounds sums from measured values | CZ_SOP_D06_03_181 (US EPA 429, US EPA 1668, US EPA 3550) | solid samples |
| 241 1) | Determination of acidic herbicides, drug residues and other pollutants[29)] by liquid chromatography method with MS/MS detection and calculation of acidic herbicides, drug residues and other pollutants sums from measured values | CZ_SOP_D06_03_182.A (DIN 38407-35, CEN/TS 15968) | water, liquid samples |
| 242 1) | Determination of acidic herbicides and drug residues[29A)] by liquid chromatography method with MS/MS detection | CZ_SOP_D06_03_182.B (ČSN EN 15637, US EPA 1694) | solid samples |
| 243 1) | Determination of pesticides, pesticide metabolites, drug residues and other pollutants[30)] by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants from measured values | CZ_SOP_D06_03_183.A (US EPA 535, US EPA 1694) | water, liquid samples |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 244 [1)] | Determination of pesticides, pesticide metabolites, drug residues and other pullutants[30A)] by liquid chromatography method with MS/MS detection and calculation of the sum of pesticides, pesticide metabolites, drug residues and other pollutants from measured values | CZ_SOP_D06_03_183.B (ČSN EN 15637, US EPA 1694) | solid samples |
| 245 [1)] | Determination of pesticides, pesticide metabolites, drug residues and other pullutants[30A)] by liquid chromatography method with MS/MS detection and calculation of the sum of pesticides, pesticide metabolites, drug residues and other pollutants from measured values | CZ_SOP_D06_03_183.C (ČSN EN 15662) | vegetable and animal materials |
| 246 [1)] | Determination of pesticides[31)] by gas chromatography method with MS or MS/MS detection and calculation of pesticides sums from measured values | CZ_SOP_D06_03_184 (US EPA 8141B, US EPA 3535A) | water, liquid samples |
| 247 [1)] | Determination of pesticides and pesticide metabolites[32)] by derivatization and liquid chromatography method with MS/MS detection and calculation of pesticides and pesticide metabolites sums from measured values | CZ_SOP_D06_03_185 (ČSN ISO 21458) | water, liquid samples |
| 248 [1)] | Determination of complexing substances[33)] by gas chromatography method with MS detection | CZ_SOP_D06_03_186 (ČSN EN ISO 16588) | water |
| [E]249 [1)] | Determination of polycyclic aromatic hydrocarbons derivatives[36)] by liquid chromatography method with MS detection | CZ_SOP_D06_03_187 (Determination of oxygenated polycyclic aromatic hydrocarbons in particulate matter using high-performance liquid chromatography–tandem mass spectrometry; J. Chrom. A, 1133 (2006) 241–247) | emission, imission |
| 250 [1)] | Determination of organic acids[37)] by capillary electrophoresis method with UV detection | CZ_SOP_D06_03_188.A (Lumex manual, Kudrjashova, M.: Capillary electrophoretic monitoring of microbial growth: determination of organic acids, COPYRIGHT 2004 Estonian Academy Publishers, June, 2004 Source Volume: 53 Source Issue: 2, ISSN: 1406-0124) | water, liquid samples |
| 251 [1)] | Determination of organic acids[37)] by capillary electrophoresis method with UV detection | CZ_SOP_D06_03_188.B (Lumex manual, Kudrjashova, M.: Capillary electrophoretic monitoring of microbial growth: determination of organic acids, COPYRIGHT 2004 Estonian Academy Publishers, June, 2004 Source Volume: 53 Source Issue: 2, ISSN: 1406-0124) | animal feeding stuff, composts, digestate, physiological fluid |
| 252 [1)] | Determination of gases[38)] by gas chromatography method with detection FID and TCD | CZ_SOP_D06_03_189 (EPA Method RSK-175) | water, liquid samples |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 253 [1)] | Low limit determination of volatile organic compounds[3)] by gas chromatography method with MS detection and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_190 (US EPA 5021, US EPA 8260) | water, |
| 254 [1)] | Low limit determination of volatile organic compounds[3)] by gas chromatography method with MS detection and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_190 (US EPA 5021, US EPA 8260) | solid samples |
| [E]255 [1)] | Determination of semi-volatile organic compounds[46)] by gas chromatography method with MS detection and calculation of semi-volatile organic compounds sums from measured values | CZ_SOP_D06_03_191 (ISO 11338-2) | emission, imission |
| 256 [1)] | Determination of chlorinated alkanes[34)] by gas chromatography method with MS/MS detection | CZ_SOP_D06_03_192 (ISO 12010) | water, liquid samples |
| 257 [1)] | Determination of chlorinated alkanes[34)] by gas chromatography method with MS/MS detection | CZ_SOP_D06_03_192.B (ISO 12010) | solid samples |
| 258 [1)] | Determination of aniline and aniline derivates[21)] by gas chromatography method with MS detection | CZ_SOP_D06_03_193 (US EPA 8270) | solid samples |
| 259 [1)] | Determination of chlorinated phenols[55)] by liquid chromatography method with MS/MS detection | CZ_SOP_D06_03_194 | water, liquid samples |
| 260 [1)] | Determination of drug residues[56)] by liquid chromatography with MS/MS detection and results recalculation to the volume of air | CZ_SOP_D06_03_195 (Jia Yu et all.: Biomed. Chromatogr. 2011; 25: 511–516) | working environment |
| 261 [1)] | Determination of epichlorhydrine by gas chromatography method with MS/MS detection | CZ_SOP_D06_03_196 (Application list Agilent Technologies 5990-6433EN) | water |
| 262 [1)] | Determination of perfluorinated and brominated compounds[58)] by liquid chromatography with MS/MS detection | CZ_SOP_D06_03_197.A (US EPA 537) | Water, liquid samples |
| 263 [1)] | Determination of perfluorinated and brominated compounds [58A)] by liquid chromatography with MS/MS detection | CZ_SOP_D06_03_197.B (DIN 38414) | solid samples |
| 264 [1)] | Determination of volatile organic compounds[59)] by gas chromatography with TCD and FID detection and calculation of percent content of volatile organic compounds from measured values | CZ_SOP_D06_03_198 (ČSN EN ISO 11890-2) | solid samples |
| 265 [3)] | Determination of fat by gravimetry | CZ_SOP_D06_06_199 (US EPA 1613) | food, animal feeding stuff, biological material |
| 266 [1)] | Determination of the content of 3-chloro-1,2-propandiol by gas chromatography method with MS detection | CZ_SOP_D06_03_200 (LMBG 52.02(1)) | spices |
| 267 [1)] | Determination of residues of pharmaceuticals[61)] by liquid chromatography method with MS/MS detection | CZ_SOP_D06_03_201.A (US EPA 1694) | water |

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**Tests: ORGANIC CHEMISTRY OF FOOD**

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 268 [1)] | Determination of fatty acids[18)] by gas chromatography method with FID detection and calculation sum of SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6[35)] | CZ_SOP_D06_04_202 (ČSN EN ISO 5508, ČSN EN ISO 15304) | food, animal feeding stuff, food supplements |
| 269 [1)] | Determination of cholesterol by gas chromatography method with FID detection | CZ_SOP_D06_04_205 Prof. ing. Jiří Davídek, DrSc. et al., Laboratory Manual of Food Analysis, J.-Chromatogr.-A.;24 Jun 1994;672(1-2): 267-272, Determination of sterol content in different food samples by capillary gas chromatography | fatty and non-fatty food, food supplements |
| 270 [1)] | Determination of retinol and alpha-tocopherol by liquid chromatography method with FLD detection | CZ_SOP_D06_04_206 (ČSN EN 128 23-1, ČSN EN 128 22) | fats, fatty food, non-fatty food, food supplements, animal feeding stuff (PET food) and premixes |
| 271 [1)] | Determination of vitamin C (ascorbic acid) and ascorbyl-6-palmitate by liquid chromatography method with PDA detection | CZ_SOP_D06_04_207 (ČSN EN 14130) | beverages, candy, non-fatty food, food supplements, fruit, vegetables |
| 272 [1)] | Determination of vitamin D[22)] by liquid chromatography method with PDA detection | CZ_SOP_D06_04_208 (ČSN EN 12821) | fats, fatty food, non-fatty food, food supplements, animal feeding stuff (PET food) and premixes |
| 273 [1)] | Determination of substitute sweeteners[23)] by liquid chromatography method with PDA detection | CZ_SOP_D06_04_209 (ČSN EN 12856) | beverages, milk products, jams, food supplements, fish |
| 274 [1)] | Determination of caffeine, theobromine and theophylline by liquid chromatography method with PDA detection | CZ_SOP_D06_04_210 (ČSN EN 12856) | beverages, tea, coffee, cocoa, chocolate |
| 275 [1)] | Determination of preserving agents[24)] in food by liquid chromatography method with PDA detection | CZ_SOP_D06_04_211 (ČSN EN 12856) | beverages, jams, vegetable and fruit sauces and pastes, mustard, fatty and milk products, food supplements |
| 276 [1)] | Determination of aflatoxin $B_1$, $B_2$, $G_1$ and $G_2$ by liquid chromatography method with FLD detection | CZ_SOP_D06_04_212 (ČSN EN 14123) | food with low water content, food supplements, beverages, animal feeding stuff |
| 277 [1)] | Determination of the content of ochratoxin A by liquid chromatography method with FLD detection | CZ_SOP_D06_04_213 (ČSN EN 15829, ČSN EN 14133, ČSN EN 14132) | food with low water content, food supplements, beverages, animal feeding stuff |
| 278 [1)] | Determination of zearalenon by liquid chromatography method with FLD detection | CZ_SOP_D06_04_214 (ČSN EN 15850) | cereals and animal feeding stuff |
| 279 [1)] | Determination of aflatoxin M1 by liquid chromatography method with FLD detection | CZ_SOP_D06_04_215 (ČSN EN ISO 14501) | milk, dried milk and products from them |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 280 [1)] | Determination of patulin by liquid chromatography method with PDA detection | CZ_SOP_D06_04_216 (ČSN EN 14177) | food with high water content, food supplement and beverages |
| 281 [1)] | Determination of deoxynivalenol by liquid chromatography method with PDA detection | CZ_SOP_D06_04_217 (ČSN EN 15791, ČSN EN 15891) | food with low water content, food supplements, beverages, animal feeding stuff |
| 282 [1)] | Determination of vitamins $B_1$, $B_2$ and $B_6$ by liquid chromatography method with FLD detection | CZ_SOP_D06_04_218 (ČSN EN 14122, ČSN EN 14152, ČSN EN 14663) | fats, fatty food, non-fatty food, animal feeding stuff, food supplements |
| 283 [1)] | Determination of folic acid by ELISA method – commercial set Ridascreen Folic Acid | CZ_SOP_D06_04_219 (R-Biopharm Manual) | food, animal feeding stuff, food supplements |
| 284 [1)] | Determination of biotin by ELISA method – commercial set Ridascreen Biotin | CZ_SOP_D06_04_220 (R-Biopharm Manual) | milk, milk products, cereals and cereal products, non-alcoholic beverages, baby food, animal feeding stuff, food supplements |
| 285 [1)] | Determination of gliadine (gluten) by sandwich enzyme immunoassay ELISA method – commercial set RIDASCREEN®Gliadin | CZ_SOP_D06_04_221.A (R-Biopharm manual) | fatty food and non-fatty food and food supplements |
| 286 [1)] | Determination of gliadine (gluten) by competitive immunoassay ELISA method – commercial set RIDASCREEN®Gliadin | CZ_SOP_D06_04_221.B (R-Biopharm manual) | fatty food and non-fatty food and food supplements |
| 287 [1)] | Determination of casein by ELISA Method – commercial set Ridascreen Fast Casein | CZ_SOP_D06_04_222 (R-Biopharm Manual) | food, food supplements |
| 288 [1)] | Determination of sugars[8)] by liquid chromatography method with RI detection | CZ_SOP_D04_223 (ČSN EN 12630) | food, animal feeding stuff, food supplements |
| 289 [1)] | Determination of vitamin B12by microbiological microtitre method – commercial set VitaFast® B12 | CZ-SOP-D06_04_224 (R-Biopharm Manual) | food, animal feeding stuff, food supplements |
| 290 [1)] | Determination of niacin by liquid chromatography method with PDA detection | CZ_SOP_D06_04_225 (ČSN EN 15652) | fatty and non-fatty food, animal feeding stuff, food supplements |
| 291 [1)] | Determination of soy protein by ELISA method – commercial set Soya assay Biokits | CZ_SOP_D06_04_226 (Biokits Neogen Manual) | meat products |
| 292 [1)] | Determination of the content of parabens by liquid chromatography method with PDA detection | CZ_SOP_D06_04_227 (HPLC for Food Analysis, Agilent Technologies 1996 -2001) | cosmetics |

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**Tests: MICROBIOLOGY OF WATER**

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 293 [1)] | Enumeration of mesophilic bacteria by cultivation | ČSN 75 7841 | surface, ground, waste, pool water |
| 294 [1)] | Enumeration of psychrophilic bacteria by cultivation | ČSN 75 7842 | surface, ground, waste, pool water |
| 295 [1)] | Enumeration of intestinal enterococci by membrane filtration | ČSN EN ISO 7899 - 2<br>STN EN ISO 7899 - 2 | drinking, bottled, pool, raw, treated, ground, surface, waste water |
| 296 [1)] | Enumeration of culturable microorganisms a) at 22 °C b) at 36 °C by cultivation | ČSN EN ISO 6222<br>STN EN ISO 6222 | drinking, bottled, natural mineral, pool, raw, treated, ground water |
| 297 [1)] | Enumeration of thermotolerant coliform bacteria and *Escherichia coli* by membrane filtration | ČSN 75 7835 | drinking, surface, ground, pool, waste water |
| 298 [1)] | Enumeration of *Escherichia coli* and coliform bacteria by membrane filtration | ČSN EN ISO 9308 - 1:2015<br>STN EN ISO 9308 - 1:2015 | drinking, pool, bottled, raw, treated, ground water |
| 299 [1)] | Enumeration of *Pseudomonas aeruginosa* by membrane filtration | ČSN EN ISO 16266<br>STN EN ISO 16266 | drinking, bottled, natural mineral, pool, surface, waste water |
| 300 [1)] | Enumeration of coagulase-positive staphylococci (*Staphylococcus Aureus* and other species) by membrane filtration | ČSN EN ISO 6888-1 | pool, surface, waste, drinking, ground water |
| 301 [1)] | Enumeration of *Candida* yeasts by membrane filtration | CZ_SOP_D06_04_258<br>(Hausler, J.: Microbiological Culture Methods of Quality Inspection, Volume III, 1995) | pool, surface, waste water |
| 302 [1)] | Enumeration of *Clostridium perfringens* by membrane filtration | CZ_SOP_D06_04_259<br>(GR 252/2004 Coll., Annex 6, GR No. 354/2006 Coll., Annex 1) | drinking, bottled, pool, natural mineral, raw, produced, ground water |
| 303 [1)] | Detection of *Salmonella* by membrane filtration | ČSN ISO 19250 | drinking, surface, ground, pool, waste water |
| 304 [1)] | Determination of bioseston by microscopy | ČSN 75 7712, STN 757711 | drinking, bottled, raw, treated, ground water |
| 305 [1)] | Determination of abioseston by microscopy | ČSN 75 7713, STN 757712 | drinking, bottled, raw, treated, ground water |
| 306 [1)] | Detection and enumeration of *Legionella* by cultivation and membrane filtration | CZ_SOP_D06_04_263.A<br>(ČSN ISO 11731, ČSN ISO 11731-2) | water, treated water |
| 307 [1)] | Detection and enumeration of *Legionella* by cultivation | CZ_SOP_D06_04_263.B<br>(ČSN ISO 11731) | sediments, growths |
| 308 [1)] | Detection and enumeration of *Legionella* by cultivation | CZ_SOP_D06_04_263.C<br>(ČSN ISO 11731) | swabs |
| 309 [1)] | Enumeration of Coliform bacteria by membrane filtration | ČSN 75 7837 | non-disinfected water |
| 310 [1)] | Enumeration of spore sulphite reducing anaerobes (Clostridium) by membrane filtration | ČSN EN 26461-2 | water |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 311 [1)] | Microbiological testing of water for haemodialysis. Enumeration of total viable microorganisms. | CZ_SOP_D06_04_266 (ISO 13959, ISO 23500) | water from dialysis |
| 312 [1)] | Microbiological testing of liquids for haemodialysis. Enumeration of total viable microorganisms. | CZ_SOP_D06_04_267 (ISO 11663, ISO 23500) | liquids for dialysis |
| 313 [1)] | Determination of the concentration of bacterial endotoxins by LAL test: by turbidimetric kinetic method | CZ_SOP_D06_04_268 (Ph.Eur. chapter 2.6.14) | water from dialysis, liquids for dialysis |

**Tests: MICROBIOLOGY**

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 314 [1)] | Enumeration of microorganisms by cultivation | ČSN EN ISO 4833 | food, animal feeding stuff |
| 315 [1)] | Enumeration of coliform bacteria by cultivation | ČSN ISO 4832 | food, animal feeding stuff |
| 316 [1)] | Enumeration of enterococci by cultivation | CZ_SOP_D06_04_302 (CSN 56 0100) | food, animal feeding stuff |
| 317 [1)] | Enumeration of *Bacillus cereus* by cultivation | ČSN EN ISO 7932 | food, animal feeding stuff |
| 318 [1)] | Enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) by cultivation | ČSN EN ISO 6888-1 | food, animal feeding stuff |
| 319 [1)] | Enumeration of *Clostridium perfringens* by cultivation | ČSN EN ISO 7937 | food, animal feeding stuff |
| 320 [1)] | Detection of *Salmonella* by cultivation | ČSN EN ISO 6579 | food, animal feeding stuff |
| 321 [1)] | Detection of *Salmonella* by cultivation | CZ_SOP_D06_04_307 except chap. 9.1.2 (ČSN EN ISO 6579, AHEM No. 1/2008) | sludge, bio waste, compost, substrates, soils |
| 322 [1)] | Detection of *Salmonella* by cultivation | CZ_SOP_D06_04_307 except chap. 9.1.1 (ČSN EN ISO 6579, AHEM No. 1/2008) | biological matrices |
| 323 [1)] | Determination of inhibiting substances by Delvotest method | CZ_SOP_D06_04_308 (O.K.Servis BioPro Manual) | milk |
| 324 [1)] | Detection of *Salmonella* by ELISA method - commercial set Solus Salmonella | CZ-SOP-D06_04_309 (Solus Manual) | food, animal feeding stuff |
| 325 [1)] | Enumeration of yeasts and moulds by cultivation | ČSN ISO 21527–1,2 | food, animal feeding stuff |
| 326 [1)] | Detection of *Enterobacteriaceae* by cultivation | ČSN ISO 21528-1 | food, animal feeding stuff |
| 327 [1)] | Enumeration of spore-forming microorganisms by cultivation | CZ_SOP_D06_04_312 (ČSN 56 0100 Article 87) | food, animal feeding stuff |
| 328 [1)] | Detection of *Vibrio parahaemolyticus* and *Vibrio species* by cultivation | ČSN P ISO/TS 21872-1, 2 | food, animal feeding stuff |
| 329 [1)] | Enumeration of mesophilic lactic acid bacteria by cultivation | ČSN ISO 15214 | food, animal feeding stuff |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 330 [1)] | Detection of *Shigella spp*. by cultivation | ČSN EN ISO 21567 | food, animal feeding stuff |
| 331 [1)] | Detection of *Campylobacter spp*. by cultivation | ČSN EN ISO 10272-1 | food, animal feeding stuff |
| 332 [1)] | Detection of presumptive pathogenic *Yersinia enterocolitica* by cultivation | ČSN EN ISO 10273 | food, animal feeding stuff |
| 333 [1)] | Enumeration of Enterobacteriaceae by cultivation | ČSN ISO 21528-2 | food, animal feeding stuff |
| 334 [1)] | Enumeration of beta-glucuronidase-positive *Escherichia coli* by cultivation | ČSN ISO 16649-2 | food, animal feeding stuff |
| 335 [1)] | Detection and enumeration of *Listeria monocytogenes* by cultivation | ČSN EN ISO 11290-1, ČSN EN ISO 11290-2 | food, animal feeding stuff |
| 336 [1)] | Enumeration of potentially toxinogenic moulds on special media by cultivation | CZ_SOP_D06_04_321 (AHEM No.1/2003) | food, animal feeding stuff |
| 337 [1)] | Enumeration of microorganisms in air by aeroscopy and sedimentation method | CZ_SOP_D06_04_322 (ČSN 56 0100 article 149, 150 AHEM No.1/2002) | Internal air environment |
| 338 [1)] | Determination of microbial contamination of areas, surface of equipment and packages using swab method | CZ_SOP_D06_04_323 (ČSN 56 0100 article 145) | areas, surface, packaging material, surface of food |
| 339 [1)] | Enumeration of thermotolerant coliform bacteria and *Escherichia coli* by cultivation | CZ_SOP_D06_04_324 (AHEM No. 1/2008, ČSN ISO 16649-2) | sludge, bio waste, compost, substrates, soils, sand |
| 340 [1)] | Enumeration of enterococci by cultivation | CZ_SOP_D06_04_325 (AHEM No. 1/2008, ČSN EN ISO 7899-2) | sludge, bio waste, compost, substrates, soils, sand |
| 341 [1)] | Detection of *Listeria* by ELISA method - commercial set Solus Listeria | CZ-SOP-D06_04_326 (manual Solus) | food, animal feeding stuff |
| 342 [1)] | Detection and enumeration of *Listeria monocytogenes* by quick cultivation method Listeria Precise | CZ-SOP-D06_04_327 (OXOID Manual) | food, animal feeding stuff |
| 343 [1)] | Detection of *Salmonella* by quick cultivation method Salmonella Precis | CZ-SOP-D06_04_328 (OXOID Manual) | food, animal feeding stuff |
| 344 [1)] | Detection of *Cronobacter (Enterobacter) sakazakii* by cultivation | ČSN P ISO/TS 22964 | milk and milk products |
| 345 [1)] | Detection and enumeration of aerobic mesophilic bacteria by cultivation | ČSN EN ISO 21149 | cosmetics |
| 346 [1)] | Detection of *Pseudomonas aeruginosa* by cultivation | ČSN EN ISO 22717 ČSN ISO 18415 | cosmetics |
| 347 [1)] | Detection of *Staphylococcus aureus* by cultivation | ČSN EN ISO 22718 ČSN ISO 18415 | cosmetics |
| 348 [1)] | Detection of *Candida albicans* by cultivation | ČSN EN ISO 18416 ČSN ISO 18415 | cosmetics |
| 349 [1)] | Detection of *Escherichia coli* by cultivation | ČSN EN ISO 21150 ČSN ISO 18415 | cosmetics |
| 350 [1)] | Enumeration of yeast and mould by cultivation | ČSN EN ISO 16212 | cosmetics |
| 351 [1)] | Evaluation of antimicrobial protection of cosmetic product, test of conservation effectiveness | CZ_SOP_D06_04_336 (ČSN EN ISO 11930, Ph.Eur. chapter 5.1.3) | cosmetics |
| 352 [1)] | Horizontal method for the detection and enumeration of presumptive *Escherichia coli* - Most probable number technique | ČSN ISO 7251, except p. 9.2 | food, feedstuffs |

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**Tests: ECOTOXICOLOGY**

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 353 [2)] | Determination of the acute lethal toxicity of substance to a freshwater fish | CZ_SOP_D06_07_350 (ČSN EN ISO 7346-1, ČSN EN ISO 7346-2, STN 83 8303) | surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents |
| 354 [2)] | Determination of the inhibition of the mobility of *Daphnia magna Straus* - Acute toxicity test | CZ_SOP_D06_07_351 (ČSN EN ISO 6341, STN 83 8303) | surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents |
| 355 [2)] | Freshwater algal growth inhibition test | CZ_SOP_D06_07_352 (ČSN EN ISO 8692, STN 83 8303) | surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents |
| 356 [2)] | Toxicity test on seeds of white mustard (*Sinapis alba*) | CZ_SOP_D06_07_353 (Ministry of Environment Bulletin, Volume *XVII*, Part 4/2007, p. 13-14; Waste Department Guidance for the determination of waste ecotoxicity, Annex 1 "Test on the seeds of white mustard (*Sinapis alba*)“) | surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents |
| 357 [2)] | Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* | CZ_SOP_D06_07_354 (ČSN EN ISO 11348-2) | surface, underground and waste water, extracts, percolation water, saline and brackish water |
| 358 [2)] | *Folsomia candida* reproduction test – determination of the inhibition. | CZ_SOP_D06_07_355 (ČSN ISO 11267) | waste, soils, sediments |
| 359 [2)] | *Enchytraeus crypticus* reproduction test – determination of the inhibition | CZ_SOP_D06_07_356 (ČSN ISO 16387) | waste, soils, sediments |
| 360 [2)] | *Lactuca sativa* – determination of inhibition of root growth | CZ_SOP_D06_07_357 (ČSN ISO 11269-1) | waste, soils, sediments |
| 361 [2)] | Determination of nitrification activity and its inhibition | CZ_SOP_D06_07_358 (ČSN ISO 15685) | waste, soils, sediments |
| 362 [2)] | Determination of the inhibition of the growth, germination and germination index (phytotoxicity) of Garden Cress (*Lepidium sativum*) - Acute toxicity test | CZ_SOP_D06_07_359 (F. Zucconi et al.: Biological evaluation of compost maturity. BioCycle, 22(2), 1981, s. 27–29.) | surface, underground and waste water, extracts of waste and composts, solutions and extracts of chemical substances and agents |
| 363 [2)] | Determination of the inhibition of the growth of Lesser Duckweed (*Lemna minor*) - Acute toxicity test | CZ_SOP_D06_07_1350 (ČSN EN ISO 20079) | surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents |

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## Tests: RADIOLOGY

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 364 [2)] | Determination of gross alpha activity by measuring of evaporated residue in a mixture with ZnS(Ag) scintillator | ČSN 75 7611 chapter 4 | water, extracts |
| 365 [2)] | Determination of gross alpha activity by measuring of incinerated evaporated residue by means of proportional detector | ČSN 75 7611 chapter 5 | water, extracts |
| 366 [2)] | Determination of gross beta activity by measuring of evaporated residue by means of proportional detector and determination of gross beta activity corrected for potassium 40 by calculation from measured values | CZ_SOP_D06_07_361 (ČSN 75 7612; Recommendation of SÚJB „Measurement and assessment of the content of natural radionuclides in drinking water from public sources Rev. 1, SÚJB 2012) | water, extracts |
| 367 [2)] | Determination of radium 226 after concentration by scintillation emanometry | ČSN 75 7622 | water, extracts |
| 368 [2)] | Determination of radon 222 by scintillation emanometry after its transportation into scintillation chamber using under-pressure | CZ_SOP_D06_07_363.A (ČSN 75 7624 chap. 5) | water, extracts |
| 369 [2)] | Determination of radon 222 by scintillation gamma-spectrometry with a well type NaI(Tl) crystal | CZ_SOP_D06_07_363.B (ČSN 75 7624 chap. 6) | water, extracts |
| 370 [2)] | Determination of radon 222 by liquid scintillation counting method (LSC) | CZ_SOP_D06_7_363.C (ČSN 75 7625) | drinking water, clear water without sediments |
| 371 [2)] | Determination of uranium by spectrophotometry after its separation on silica gel and determination of uranium 238 activity concentration by calculation from measured values | ČSN 75 7614 | water, extracts |
| 372 [2)] | Determination of tritium volume activity concentration by liquid scintillation counting method (LSC) | ČSN ISO 9698 | water, extracts |
| 373 [2)] | Determination of polonium 210 after its concentration by sorption on ZnS(Ag) by the measurement of emitted scintillations | ČSN 75 7626 | water, extracts |
| 374 [2)] | Determination of polonium 210 after total decomposition and after its concentration by sorption on ZnS(Ag) by the measurement of emitted scintillations | CZ_SOP_D06_07_366 (ČSN 75 7626) | soils, sludge, sediments, filters |
| 375 [2)] | Non-destructive determination of radionuclides[25)] by high resolution gamma-spectrometry | CZ_SOP_D06_07_367 (ČSN ISO 10 703) | solid samples with granularity up to 4 mm, food, liquid samples |
| 376 [2)] | Determination of gross alpha mass activity by direct measurement of the sample by means of alpha radiation analyzer | CZ_SOP_D06_07_368 (ČSN 75 7611 and ISO 9696) | all solid samples which can be pulverized to 100µm granularity,-liquid samples with boiling point above 100 ºC |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 377 [2)] | Determination of gross beta mass activity by direct measurement of the sample by means of beta radiation analyzer | CZ_SOP_D06_07_369 (ČSN 75 7612 and ISO 9697) | all solid samples which can be pulverized to 100μm granularity,-liquid samples with boiling point above 100 ºC |
| 378 [2)] | Determination of lead 210 after its sorption on ZnS-colloid by beta radiation analyzer | CZ_SOP_D06_07_370 (Health Phys., 46, 1984, No. 5, p. 1131) | water, extracts (with low content of suspended solids or filtrated through 0.45μm filter) |
| 379 [2)] | Determination of gross alpha activity by co-precipitation method by measurement of filtrated precipitate by means of proportional detector | ČSN 75 7610 | water, extracts |
| 380 | Determination of indicative dose (ID) by calculation from the volume activity concentrations of individual radionuclides | CZ_SOP_D06_07_372 (Recommendation of SÚJB „Measurement and assessment of the content of natural radionuclides in drinking water from public sources Rev. 1, SÚJB 2012; Council Directive 2013/51/EURATOM of 22/10/2013) | waters |
| 381 [2)] | Determination of strontium 90 by proportional detector after separation | CZ_SOP_D06_07_373 (ASTM D5811-00) | water |
| 382 [2)] | Determination of strontium 90 by proportional detector after separation | CZ_SOP_D06_07_373 (ASTM D5811-00, ASTM C1507-12) | soils, sludge, sediments |
| 383 [2)] | Determination of strontium 90 by proportional detector after separation | CZ_SOP_D06_07_373 (ASTM D5811-00, ASTM C1507-12) | biological material, food, animal feeding stuff |
| 384 [2)] | Determination of carbon 14 by liquid scintillation method after separation | CZ_SOP_D06_07_374 (ISO 13162:2011, US EPA 520/5-84-006) | water, soils, sludge, sediments, bio indicators, food |

## Tests: TRIBOLOGY

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 385 [1)] | Determination of kinematic viscosity by viscometer and viscosity index by calculation | CZ_SOP_D06_05_400 (ČSN EN ISO 3104, ČSN ISO 2909) | liquid fuels, lubricating oils |
| 386 [1)] | Determination of flash point - Pensky-Martens closed cup method by flash point analyser | CZ_SOP_D06_05_401 (ČSN EN ISO 2719) | liquid petroleum products |
| 387 [1)] | Determination of liquid cleanliness code by particle counter | CZ_SOP_D06_05_402 | liquid fuels, lubricating oils |
| 388 [1)] | Determination of base number by potentiometric titration | CZ_SOP_D06_05_403 (ČSN ISO 3771) | lubricating oils, additives to lubricants |
| 389 [1)] | Determination of neutralization number by potentiometric titration | CZ_SOP_D06_05_404 (ČSN ISO 6619) | lubricating oils, additives to lubricants |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 390 [1)] | Determination of water content by Coulometric method | CZ_SOP_D06_05_405 (ASTM D 6304, ČSN EN ISO 12937) | liquid fuels, lubricating oils |
| 391 [1)] | Determination of flash point-Cleveland opened-cup method by flash point analyser | CZ_SOP_D06_05_406 (ČSN EN ISO 2592) | liquid fuels, lubricating oils |

**Tests: GENERAL FOOD CHEMISTRY**

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 392 [1)] | Determination of N-substances by Kjeldahl method by titration | CZ_SOP_D06_04_450 (ČSN ISO 1871) | food, animal feeding stuff, food supplements |
| 393 [1)] | Determination of fat by gravimetry | CZ_SOP_D06_04_451 (ČSN ISO 1443, ČSN ISO 1444) ČSN 46 7092-7) | food, animal feeding stuff |
| 394 [1)] | Determination of dry matter by gravimetry and determination of moisture by calculation from measured value | CZ_SOP_D06_04_452 (Journal of AOAC International vol 88, No1,2005; Journal of AOAC International vol 86, No6, 2003) | food, animal feeding stuff, food supplements |
| 395 [1)] | Determination of nitrate and nitrite by capillary isotachophoresis | CZ_SOP_D06_04_453 (ITP: Application sheet No. 33 VILLA LABECO s.r.o.) | food, animal feeding stuff |
| 396 [1)] | Determination of phosphates by capillary isotachophoresis | CZ_SOP_D06_04_454 (ITP: Application sheet No. 35 VILLA LABECO s.r.o.) | food, animal feeding stuff |
| 397 [1)] | Methods of coffee determination: determination of water extract content | ČSN 58 0113 Article 38 | coffee |
| 398 [1)] | Animal and vegetable fats and oils – determination of acid value and acidity by titration | CZ_SOP_D06_456 (ČSN ISO 660) | animal and vegetable fats and oils |
| 399 [1)] | Determination of phosphate by indirect method by spectrophotometry | CZ_SOP_D06_04_457 (Veterinary Laboratory Methodology, Food chemistry, Bratislava1990) | meat and milk products |
| 400 [1)] | Gravimetric determination of ash | CZ_SOP_D06_04_458 (ČSN 56 0116-4) | food, animal feeding stuff |
| 401 [1)] | Determination of fibre by oxidation hydrolysis method | CZ_SOP_D06_04_459 (ČSN ISO 5498) | animal feeding stuff |
| 402 [1)] | Determination of pH in biological material by potentiometry | CZ_SOP_D06_04_460 (ČSN ISO 2917:2012, ČSN ISO 1842) | food, animal feeding stuff |
| 403 [1)] | Determination of sand in biological material by gravimetry | CZ_SOP_D06_04_461 (ČSN 56 0246-12) | food, animal feeding stuff |
| 404 [1)] | Determination of relative density of liquids by pycnometry | CZ_SOP_D06_04_462 (ČSN EN 1131) | low viscosity liquids |
| 405 [1)] | Titrimetric determination of acidity | CZ_SOP_D06_04_463 (ČSN ISO 750) | fruit juices, water-soluble food |
| 406 [1)] | Determination of moisture content – distillation method | CZ_SOP_D06_04_464 (ČSN ISO 939) | spices and condiments |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 407 [1)] | Determination of dietary fibre by enzymatic method | CZ_SOP_D06_04_465 (AOAC Method 985.29) | food, food supplements |
| 408 [1)] | Determination of starch content by polarimetry | CZ_SOP_D06_04_466 (ČSN 46 70 92-21) | cereals, baking products, cereal feeds |
| 409 [1)] | Determination of chloride by coulometric titration | CZ_SOP_D06_04_467 (Manual to Chloride Analyse 926 analyzer from O.K.SERVIS) | food, animal feeding stuff, food supplements |
| 410 [1)] | Determination of reducing and non-reducing sugars by titration | CZ_SOP_D06_04_468 (ČSN 56 01 46) | food, animal feeding stuff, food supplements |
| 411 [1)] | Determination of alkalinity of water-soluble ash | ČSN ISO 1578 | tea |
| 412 [1)] | Determination of total ash | ČSN ISO 1575 | tea |
| 413 [1)] | Determination of water-soluble and water-insoluble ash | ČSN ISO 1576 | tea |
| 414 [1)] | Determination of acid-insoluble ash | ČSN ISO 1577 | tea |
| 415 [1)] | Determination of water extract | ČSN ISO 9768 | tea |
| 416 [1)] | Determination of loos in mass at 103°C | ČSN ISO 1573 | tea |
| 417 [1)] | Determination of N-substances by Dumas method | CZ_SOP_D06_04_475 (ČSN EN ISO 14891, ČSN EN ISO16634-1, ČSN P CEN ISO/TS 16634-2) | food, animal feeding stuff, food supplements |
| 418 [1)] | Determination of volatile oils (essential oils) by distillation with steam | ČSN EN ISO 6571 | spices, aromatic substances, herbs |
| 419 [1)] | Determination of the weight of consumer packaging of food and animal feeding stuff products by gravimetry | CZ_SOP_D06_04_477 (ČSN 560305, ČSN 570146-3, ČSN 580170-3) | food, animal feeding stuff, food supplements |
| 420 [1)] | Determination of the meat content in meat products and products containing meat by calculation from measured values | CZ_SOP_D06_04_478 | meat products |
| 421 [1)] | Determination of carbohydrates and energy values by calculation from measured values | CZ_SOP_D06_04_479 | food, raw materials for production of food, food supplements |
| 422 [1)] | Determination of non-protein contents by calculation | ČSN 46 7092-24 | animal feeding stuff |
| 423 [1)] | Determination of 4-hydroxyproline by spectrophotometry and determination of collagen by calculation from measured values | CZ_SOP_D06_04_481 (ISO 3496) | meat products |
| 424 [1)] | Determination of fat content by NMR method | CZ_SOP_D06_04_482 (Journal of AOAC International vol 88, No1,2005; Journal of AOAC International vol 86, No6, 2003) | selected food, raw materials for production of food, food supplements |
| 425 [1)] | Determination of peroxide value volumetrically | ČSN EN ISO 3960 | fat, vegetable oils |
| 426 [1)] | Determination of water activity by capacitive sensors method | ČSN ISO 21807 | food, raw materials for production of food, food supplements |

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| 427 [1)] | Determination of net muscle protein by calculation from content of collagen and protein | CZ_SOP_D06_04_485 | meat, meat products |
| 428 [1)] | Identification of synthetic dyes[57)] by thin-layer chromatography method | CZ_SOP_D06_04_486 (Davídek J., Laboratory manual of Food Analysis, 1981) | food |
| 429 [1)] | Determination of piperine content by spectrophotometry | ČSN ISO 5564 (580192) | black pepper and white pepper, whole or ground |
| 430 [1)] | Determination of starch in meat products | CZ_SOP_D06_04_488 (BS 4401 Part 12:1979 Determination of Starch Content of Meat Products) | meat products |
| 431 [1)] | Determination of total sulphur dioxide | CZ_SOP_D06_04_489 (Prof.Ing.J.Davídek, DrSc. et al.: Laboratory Guide to Food Analysis, SNTL 1981, Aplication notes No. 33 Villa Labeco) | food and raw materials for the production of food, food supplements |
| 432 [10)] | Sensory analysis – descriptive test | CZ_SOP_D06_04_490 (ČSN ISO 6658, ČSN ISO 8589, ČSN ISO 13299, ČSN ISO 13300) | food, cosmetics, food packaging materials, consumer goods |
| 433 [10)] | Sensory analysis, comparison with a standard | CZ_SOP_D06_04_491 (ČSN ISO 6658, ČSN ISO 8589, ČSN ISO 13299, ČSN ISO 13300) | food, cosmetics, food packaging materials, consumer goods |
| 434 [10)] | Assessment of characteristic features of food | CZ_SOP_D06_04_492 (ČSN ISO 8589, ČSN ISO 13299, ČSN ISO 13300) | food |

## Used abbreviations

| | |
|---|---|
| AHEM | Acta hygienica, epidemiologica et microbiologica |
| AITM | Airbus methods |
| BDE | Brominated Diphenyl Ethers |
| BFR | Brominated flame retardants |
| Bioindicators | Fresh water and sea water plankton |
| Biological material | Blood, tissues, mother's milk, urine, sweat |
| CFA | Continuous Flow Analyser |
| ČL | Czech Pharmacopoeia |
| DIN | Deutscher Institut fuer Normung |
| EC | Electrochemical detection |
| ECD | Electron Capture Detector |
| Emissions | Filters, liquid and solid sorbents, condensates, fly ash |
| SPMD Extracts | SPMD from surface water, ground water and immissions |
| FID | Flame Ionization Detector |
| FLD | Fluorescence Detector |
| HRGC/HRMS | High Resolution Gas Chromatography/High Resolution Mass Spectrometry |

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| | |
|---|---|
| Immissions | Filters, solid sorbents |
| IP | International Petroleum test method |
| IR | Infrared Region Detector |
| ISE | Ion Selective Electrode |
| ISO | International Organization for Standardisation |
| Liquid samples | Industrial liquids, technological liquids, technological baths |
| Contaminated surfaces | Food industry premises, walls after fire, walls of technological plants |
| LSC | Liquid Scintillation Counting method for the determination of alpha- or beta- radiation emitting radionuclides |
| MS | Mass Detector |
| MUFA | Monounsaturated Fatty Acids |
| NEN | Nederlands Normalisatie-Institut |
| NIOSH | National Institute for Occupation Safety and Health |
| NIOSH[1)] | Methods used for CZ_SOP_D06_03_153 - NIOSH 1400, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1022, NIOSH 1602, NIOSH 1609 |
| GR | Government Regulation |
| PhEur | European Pharmacopoeia |
| PDA | Photo-Diode-Array detector |
| Solid samples | Waste (solid, liquid, biowaste), sediments, sludge, soils, rocks, filters from emission and immission samples |
| Gases | Gases from biogas plants, landfill gases |
| Working environment | Filters, solid sorbents, tubes |
| PUFA | Polyunsaturated Fatty Acids |
| RI | Refractometric Detector |
| Vegetable materials | Green plants (root, flower, green parts), pollen |
| SAFA | Saturated Fatty Acids |
| SFS | The Finish Standard Association |
| SM | Standard Methods – Standard US methods for the analysis of drinking and waste water prepared and issued by American Public Health Association, American Water Works Association and Water Environmental Federation |
| SOP | Standard operating procedure |
| SPIMFAB | SPI MILJOSANERINGSFOND AB – method of Swedish Petroleum Institute |
| SPMD | Semi-Permeable Membrane Device |
| SÚJB | State Office for Nuclear Safety |
| Sum of Ca+Mg | Water hardness |
| TCD | Thermal Conductivity Detector |
| TEQ | Toxic Equivalent |
| TFA | Trans Fatty Acids |
| TNV | Branch Technical Standard of Water Management |
| Treated water | Water for dialysis, aqua purificata, process, industrial, boiler and cooling water, irrigation water, water supplied by piping or taken from various reservoirs |
| US EPA | U.S. Environmental Protection Agency |
| USP | US Pharmacopoeia |
| UV | Ultraviolet Detector |
| Water | Drinking, bottled, natural, mineral, pool, hot, bathing, raw, underground, surface, waste, sea water |

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| | |
|---|---|
| Selected food | Food, raw materials for the production of food, food supplements and feedstuffs, except samples of listed matrices with humidity above 95%, unprocessed cereals and condensed milk |
| Extracts | Aqueous extracts of soils, sediments and waste according to valid legislation |
| Extracts | Extracts are usually prepared according to standards ČSN EN 12457-2, ČSN EN 12457-3, ČSN EN 12457-4, US EPA 1311, US EPA 1312. The extract preparation method is always indicated in the test report. |
| Animal materials | Insects |

Tests identified by ordinal number:

- with index * are carried out outside the laboratory premises
- with index 1) are carried out on the site in Prague, Na Harfě 336/9
- with index 2) are carried out on the site in Česká Lípa
- with index 3) are carried out on the site in Pardubice
- with index 4) are carried out on the contact and sampling place in Brno
- with index 5) are carried out on the contact and sampling place in Ostrava
- with index 6) are carried out on the contact and sampling place in Plzeň
- with index 7) are carried out on the contact and sampling place in Lovosice
- with index 8) are carried out on the contact and sampling place in Rožnov pod Radhoštěm

**Explanation**

**Volatile organic compounds[1)] –** 1,1,1,2-tetrachloroethane, 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene, 1,1-dichloropropylene, 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2,3-trimethylbenzene, 1,2,4,5-tetramethylbenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,2-dibromo-3-chloropropane, 1,2-dibromomethane, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, 1,3,5-trichlorobenzene, 1,3,5-trimethylbenzene, 1,3- dichlorobenzene, 1,3-dichloropropane, 1,4- dichlorobenzene, 1,4-dioxane, 1-chloronaphthalene, 1-propanol, 2,2-dichloropropane, 2-butanol, 2-butoxyethyl acetate, 2-ethyl-1-hexanol, 2-ethylhexanol, 2-ethyltoluene, 2-chlorotoluene, 2-methylhexane, 2-metyl-1-butanol, 2-propanol, 3-ethyltoluene, 3-caren, 4-ethyltoluene, 4-phenylcyclohexene, 4-chlorotoluene, 4-isopropyltoluene, acetone, alpha-pinene, alpha-terpinene, benzene, beta-pinene, bromobenzene, bromodichloromethane, bromochloromethane, bromomethane, bromoform, cis-1,2-dichloroethylene, cis-1,3-dichloropropylene, cyclohexane, cyclohexanone, diacetone alcohol, dibromochloromethane, dibromomethane, dichlorodifluoromethane, dichloromethane, ethanol, ethyl acetate, ethyl terc-butyl ether (ETBE), ethylbenzene, hexachlorobutadien, hexanal, chlorobenzene, chloroethane, chloromethane, chloroform, i-butyl acetate, isobutanol, isooctane, isopropylbenzene, limonene, methanol, methyl tert-butyl ether, methylcyclohexane, methylcyclopentane, methylethylketone, methylisobutylketone, methylmerkaptan, dimethylmerkaptan, m-xylene, naphthalene, n-butanol, n-butyl acetate, n-butylbenzene, n-decane, n-dodecane, n-heptane, n-hexadecane, n-hexane, n-nonane, n-octane, n-pentane, n-propylbenzene, n-tetradecane, n-tridecane, n-undecane, o-xylene, p-xylene, oil hydrocarbons, sec-butylbenzene, styrene, terc-butyl acetate, tert-butylbenzene, tetrahydrofuran, tetrachloroethene, tetrachloromethane, toluene, trans- 1,2- dichloroethylene, trans-1,3-dichloropropylene, trichloroethene, trichlorofluoromethane, vinyl acetate, vinylchloride, calculation of sums according to CZ_SOP_D06_03_J02

**Volatile organic compounds[2)] –** 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloro-1,2,2-trifluoroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,2-dichloro-1,1,2,2-tetrafluoroethane, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, 1,3,5-trichlorobenzene, 1,3,5-trimethylbenzene, 1,3-butadien, 1,3- dichlorobenzene, 1,4- dichlorobenzene, 1,4-dioxane, 2-butanon, 2-hexanone, 2-propanol, 4-ethyltoluene, acetone, benzene, bromomethane, cis-1,2-dichloroethylene, cyclohexane, dichloromethane, ethanol, ethylbenzene, hexachlorobutadien, chlorobenzene, chloroethane, chloromethane, chloroform, isooctane, isopropylbenzene, methylcyclohexane, methylisobutylketone, m-xylene, n-heptan-hexane, n-propylbenzene, o-xylene, p-xylene, carbon disulphide, styrene, tetrahydrofuran, tetrachloroethene, tetrachloromethane, toluene, trans- 1,2- dichloroethylene, trichloroethene, trichlorofluoromethane, vinylchloride, calculation of sums according to CZ_SOP_D06_03_J02

**Volatile organic compounds[3)]** – 1,1,1,2-tetrachloroethane, 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,1-dichloropropene, 1,2,3,5-tetramethylbenzene, 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2,3-trimethylbenzene, 1,2,4,5-tetramethylbenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,2,5-trimethylbenzene, 1,2-dibromo-3-chloropropane, 1,2-dibromomethane, 1,2-diethylbenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, 1,3,5-trichlorobenzene, 1,3,5-trimethylbenzene, 1,3-diethylbenzene, 1,3-dichlorobenzene, 1,3-dichloropropane, 1,4-diethylbenzene, 1,4-dichlorobenzene, 1,4-dioxane, 1-ethyl-2methylbenzene, 1-ethyl-2-methylbenzene, 1-ethyl-3-methylbenzene, 1-ethyl-4-methylbenzene, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, acetone, aliphates >C5-C8, aliphates >C8-C10, benzene, bromobenzene, bromodichloromethane, bromochloromethane, bromomethane, bromoform, cis-1,2-dichloroethene, cis-1,3-dichloropropene, dibromochloromethane, dibromomethane, dichlorodifluoromethane, dichloromethane, diisopropylether, ethanol, ethylbenzene, ethyl-terc-butylether, hexachlorobutadien, chlorobenzene, chloroethane, chloromethane, chloroform, indane, isobutanol, isobutylacetate, isopropylbenzene, izopropylbenzene, MTBE, m-xylene, naphthalene, n-butanol, n-butylacetate, n-butylbenzene, n-propylbenzene, o-xylene,

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p-isopropyltoluene, p-xylene, sec-butanol, sec-butylacetate, sec-butylbenzene, styrene, TAEE, TBA, terc-amylmethylether, terc-butanol, terc-butylacetate, terc-butylbenzene, tetraethyllead, tetrachloroethene, tetrachloromethane, toluene, trans-1,2-dichloroethene, trans-1,3-dichloropropene, trichloroethene, trichlorofluoromethane, vinylchloride, calculation of sums according to CZ_SOP_D06_03_J02

**Volatile organic compounds[4)]** – 1,1-dichlorethylene, 1,2-dichlorethane, 1,4-dioxane, benzene, dichloromethane, ethylbenzene, hydrocarbon fractions C5(C6)-C12, chloroform, cis-1,2-dichloroethylene, m-xylene, naphthalene, o-xylene, p-xylene, styrene, tetrachloroethylene, tetrachloromethane, toluene, trans‑1,2‑dichloroethylene, trichloroethylene, vinylchloride, calculation of sums acc. to CZ_SOP_D06_03_J02

**Organic contaminants[5)]** – aliphates >C5-C8, aliphates >C8-C10, benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, MTBE (methyl-terc-buthylether), 1,2-dichloroethane, 1,2-dibromomethane, aliphates >C10-C12, aliphates >C12-C16, aliphates >C16-C35, 1-ethyl-3-methylbenzene, 1-ethyl-4-methylbenzene, 1-ethyl-2-methylbenzene, 1,3,5-trimethylbenzene, 1,2,4- trimethylbenzene, 1,2,3-trimethylbenzene, 1,3-diethylbenzene, 1,4- diethylbenzene, 1,2- diethylbenzene, 1,2,4,5-tetramethylbenzene, naphthalene, 2-methylnaphthalene, 1-methylnaphthalene, biphenyl, 2+1-ethylnaphthalene, 1,7-dimethylnaphthalene, 2,6-dimethylnaphthalene, 1,4+2,3-dimethylnaphthalene, acenaphthylene, 1,8-dimethylnaphthalene, acenaphthene, 2,3,5-trimethylnaphthalene, fluorine, phenanthrene, anthracene, 2-methylanthracene, 1- methylanthracene, 2-methylphenanthrene, 1-methylphenanthrene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, indeno-(1,2,3,c,d)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, methylpyrenes/ methylfluoranthenes, methylchrysenes/ methylbenzo-[a]-anthracenes, 1,2-dichlorobenzen, 1,3-dichlorobenzen, 1,2,4-trichlorobenzen, 1,3,5-trichlorobenzen, 1,2,3,4-tetrachlorobenzen, 1,2,4,5-tetrachlorobenzen, 1,2,3,5-tetrachlorobenzen, pentachlorobenzene, hexachlorobenzene, PCB 28, PCB 52, PCB 101, PCB 118, PCB 153, PCB 138, PCB 180, sums calculation according to CZ_SOP_D06_03_J02

**Phenols, chlorinated phenols and cresols[6)]** – 2-chlorophenol, 3- chlorophenol, 4- chlorophenol, 2,6-dichlorophenol, 2,4+2,5-dichlorophenol, 3,5- dichlorophenol, 2,3- dichlorophenol, 3,4- dichlorophenol, 2,4,6-trichlorophenol, 2,3,6- trichlorophenol, 2,3,5-trichlorophenol, 2,4,5- trichlorophenol, 2,3,4- trichlorophenol, 3,4,5- trichlorophenol, 2,3,5,6-tetrachlorophenol, 2,3,4,6- tetrachlorophenol, 2,3,4,5- tetrachlorophenol, pentachlorophenol, 4-chloro-2-methylphenol, 2-chloro-6-methylphenol, phenol, o-cresol, m-cresol, p-cresol, 2,3-dimethylphenol, 2,4-dimethylphenol, 2,5-dimethylphenol, 2,6-dimethylphenol, 3,5-dimethylphenol, 3,4-dimethylphenol, 1-naftole, 2-naftole, sums calculation according to CZ_SOP_D06_03_J02

**Phthalates[7)]** – dimethylphthalate, diethylphthalate, di-n-propylphthalate, di-n-buthylphthalate, diisobuthylphthalate, dipenthylphthalate, di-n-octylphthalate, bis-(2-ethylhexyl)- phthalate (DEHP), buthylbenzylphthalate, dicyclohexyl phthalate, di-iso-nonylphthalate, di-iso-decylphthalate, sums calculation according to CZ_SOP_D06_03_J02

**Sugars[8)]** – glucose, fructose, lactulose, maltose, sucrose

**Semi-volatile organic compounds[9)]** – acenaphthene, acenaphthylene, anthracene, benzo-(a)-anthracene, benzo-(a)-pyrene, benzo-(a)-fluoranthene, benzo-(b)-fluoranthene, benzo-(g,h,i)-perylene, benzo-(k)-fluoranthene, dibenzo-(a,h)-anthracene, phenanthrene, fluoranthene, fluorine, chrysene, indenopyrene, naphthalene, pyrene, hexachlorobutadiene, hexachloroethane, aldrin, o,p´-DDD, o,p´-DDE, o,p´-DDT, p,p´-DDD, p,p´-DDE, p,p´-DDT, dieldrin, α-endosulphane, β-endosulphane, endrin, telodrin, isodrin, heptachlor, cis-heptachloroepoxide, trans-heptachloroepoxide, α-HCH, β-HCH, γ-HCH, δ-HCH, alachlor, methoxychlor, pentachlorobenzene, hexachlorobenzene, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, trifluraline, PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, PCB 194, dichlobenile, ε-HCH, octachlorstyrene, di-n-buthylphthalate, bis(2-ethylhexyl) phthalate (DEHP), endosulfan-sulphate, mirex, cis-chlordane, trans-chlordane, oxychlordane, cis-nonachlor, trans-nonachlor, PBB 153, pentachlortoluene, sums calculation according to CZ_SOP_D06_03_J02

**Polycyclic aromatic hydrocarbons[10)]** – naphthalene, acenaphtylene, acenaphtene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, indeno-(1,2,3,c,d)-pyrene, coronene, sums calculation according to CZ_SOP_D06_03_J02

**Polychlorinated biphenyls[11)]** - PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, sums calculation according to CZ_SOP_D06_03_J02

**Organochlorine pesticides and other halogen compounds[12)]** – 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, 2,4´-DDD (TDE), 2,4´-DDE, 2,4´-DDT, 4,4´-DDD (TDE), 4,4´-DDE, 4,4´-DDT, alachlor, aldrin, bis(2-ethylhexyl)phthalate (DEHP), cis-heptachloroperoxide, cis-chlordan, cis-nonachlor, dieldrin, dichlobenil, endosulfan-sulfate, endrin, heptachlor, hexabromobiphenyl (PBB 153), hexachlorobenzene, hexachlorobutadien, hexachloroethane, isodrin, methoxychlor, mirex, octachlorostyrene, oxychlordane, pentachlorobenzene, telodrin (isobenzane), toxaphene, trans-heptachloroperoxide, trans-chlordan, trans-nonachlor, trifluralin, α-endosulphan, α-HCH, β-endosulphan, β-HCH, γ-HCH (Lindane), δ-HCH, ε-HCH, calculation of sums according to CZ_SOP_D06_03_J02

**PCDD/PCDF[13)]** - 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD, 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF, TEQ parameters calculation according to CZ_SOP_D06_06_J03

**PCB[14)]** - PCB101, PCB105, PCB114, PCB118, PCB123, PCB126, PCB138, PCB153, PCB156, PCB157, PCB167, PCB169, PCB170, PCB180, PCB189, PCB209, PCB28, PCB52, PCB77, PCB81, PCB37, sums and TEQ parameters calculation according to CZ_SOP_D06_06_J03

**BFR[15)]** - tri-BDE 28, tetra-BDE 47, tetra-BDE 66, tetra-BDE 77, penta-BDE 85, penta-BDE 99, penta-BDE 100, hexa-BDE 138, hexa-BDE 153, hexa-BDE 154, hepta-BDE 183, BDE 203, deca-BDE 209, BB 209, sums calculation according to CZ_SOP_D06_06_J03

**Alkylphenols, alkylphenolethoxylates [16)]** - 4-nonylphenol (mixture of isomers), 4-n-nonylphenol, 4-nonylphenol monoethoxylate (mixture of isomers), 4-nonylphenol diethoxylate (mixture of isomers), 4-nonylphenol triethoxylate (mixture of isomers), 4-n-octylphenol, 4-tert-octylphenol, 4-tert-octylphenol monoethoxylate, 4-tert-octylphenol diethoxylate, 4-tert-octylphenol triethoxylate, bisphenol A, sums calculation according to CZ_SOP_D06_03_J02

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**Fatty acids**[18)] – butyric, capronic, caprilic, caprinic, undecaneoic, lauric, tridecaneoic, myristic, pentadecaneoic, palmitic, heptadecaneoic, stearic, arachidic, heneicosanoic, behenic, tricosanoic, lignoceric, myristoleic, cis-10-pentadecenoic, palmitoleic, cis-10-heptadecenoic, elaidic, oleic, cis-11-eicosenoic, erucic, nervonic, linolelaidic, linoleic, γ-linolenic, linolenic, cis-11,14-eicosadienoic, cis-8,11,14-eicosatrienoic, cis-11,14,17-eicosatrienoic, arachidonic, cis-13,16-docosadienoic, cis-5,8,11,14,17-eicosapentaenoic, cis-4,7,10,13,16,19-docosahexaenoic, elaidic

**Aniline and aniline derivates**[21)] – p-chloroaniline

**Vitamine D**[22)] – vitamine D2 and vitamine D3

**Substitute sweeteners**[23)] – aspartame, acesulfam-K, saccharine, neohesperidine DC

**Preservatives**[24)] – sorbic acid, benzoic acid

**Radionuklidy**[25)] – Radionuclides emitting gamma rays in the energy interval 46,5 – 1836 keV.

**Glycols**[26)]- 1,2-propandiol, monopropylenglycol (as C), ethylenglycol, ethylenglycol (as C), 1,3-butandiol, diethylenglycol, diethylenglycol (as C), triethylenglycol, triethylenglycol (as C)

**Semi-volatile organic compounds (isotopic dilution)**[27)] - – naphthalene, acenafthylene, acenaphthene, fluorine, phenanthrene, anthracene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, indeno-(1,2,3,c,d)-pyrene, PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, hexachlorbenzene, sums calculation according to CZ_SOP_D06_03_J02

**Alkylphenols, alkylphenolethoxylates**[28)] - 4-nonylphenol (mixture of isomers), 4-nonylphenol monoethoxylate (mixture of isomers), 4-nonylphenol diethoxylate (mixture of isomers), 4-nonylphenol triethoxylate (mixture of isomers), 4-tert-octylphenol, 4-tert-octylphenol monoethoxylate, 4-tert-octylphenol diethoxylate, 4-tert-octylphenol triethoxylate, sums calculation according to CZ_SOP_D06_03_J02

**Acid herbicides, drug residues and other pollutants**[29)] - 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,4-DP (isomers), 4-CPP, acifluorfen, aminopyralid, bentazon, bromoxynil, diclofop, dichlorprop-P, dicamba, diklofenac, dinoseb, dinoterb, DNOC, fluroxypyr, ibuprofen, ioxynil, clopyralid, caffeine, MCPA, MCPB, MCPP, MCPP (isomers), mecoprop-P, PFOA, PFOS, picloram, propoxycarbazone-sodium, triclosan, triclopyr, calculation of sums according to CZ_SOP_D06_03_J02

**Acid herbicides and drug residues** [29A)] - 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP (isomers), 4-CPP, acifluorfen, bentazone, bromoxynil, diclofop, dicamba, DNOC, fluroxypyr, ioxynil, MCPA, MCPB, MCPP (isomers), propoxycarbazone-sodium, triclosan, triclopyr

**Pesticides, pesticide metabolites, drug residues and other pollutants**[30)] – 1-(3,4-dichlorophenyl) urea (DCPU), 17-alpha-ethinylestradiol, 17-beta-estradiol, 2-amino-N-(isopropyl)benzamide, 2-chloro-2,6-diethylacetanilide, 2-isopropyl-6-methyl-4-pyrimidinol, 3,4-dichloroaniline (DCA), 3-chloro-4-methylaniline, 6-chloronicotinic acid, acetamiprid, acetochlor, acetochlor ESA, acetochlor OA, acibenzolar-S-methyl, aclonifen, acrylamide, alachlor, alachlor ESA, alachlor OA, aldicarb, aldicarb sulfone, aldicarb sulfoxide, aldoxycarb, ametryn, amidithion, amidosulfuron, amitraz, anilazine, asulam, atraton, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desethyl-desisopropyl, atrazine-desisopropyl, azaconazole, azinphos-ethyl, azinphos-methyl, azoxystrobin, azoxystrobin o-demethyl, BAM (2,6-dichlorobenzamide), BDMC, benalaxyl, bendiocarb, bentazone, bentazone methyl, bifenox, bifenthrin, bitertanol, boskalid, bromacil, bromofos-ethyl, bromoxynil, buprofezin, cadusafos, clofentezine, coumafos, cyanazine, cyflufenamid, cyhalothrin, cymoxanil, cypermethrin, cyprazine, cyprodinil, cyproconazole, cyromazine, DEET, deltamethrin, desmedifam, desmetryn, diazinon, diethofencarb, difenoconazol, difenoxuron, diflubenzuron, diflufenican, dichlofenthion, dichlormid, dichlorvos, dicrotophos, diquat, dimefuron, dimethachlor, dimethenamid, dimethylaminosulfanilid, dimethoate, dimethomorph, dimoxystrobin, diuron, diuron desmethyl (DCPMU), epoxiconazole, EPTC, estriol, estron, ethiofencarb, ethion, ethofumesate, ethoprophos, ethoxazol, famoxadon, famphur, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenarimol, fenhexamid, phenmedipham, fenothiocarb, fenoxaprop, fenoxycarb, fenpropidin, fenpropimorph, fensulfothion, fenuron, fipronil, fipronil sulfone, florasulam, fluazifop, fluazifop-butyl, fluazifop-butyl (isomers), fluazifop-P, fluazifop-p-butyl, fludioxonil, fluopyram, fluquinconazole, flusilazol, flutolanil, fonofos, foramsulfuron, phoratet, phosalone, phosphamidon, phosmet, phosmet-oxon, fosthiazate, furalaxyl, furathiocarb, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-p-methyl, hexaconazole, hexazinone, hexythiazox, chlorantraniliprole, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlormequat, chlorotoluron, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chlorsulfuron, chlorotoluron-desmethyl, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, indoxacarb, iprodione, iprovalicarb, irgarol, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, isopyrazam, carbamazepin, carbaryl, carbendazim, carbetamide, carbofuran, carbofuran-3-hydroxy, carboxin, carfentrazone-ethyl, clodinafop, clodinafop propargil, clomazone, clomeprop, clothianidin, kresoxim-methyl, crimidine, lenacil, linuron, malaoxon, malathion, mandipropamid, MCPA, MCPP, mefenpyr-diethyl, mecarbam, mepiquat metsulfuron-methyl, mesosulfuron-methyl, mesotrione, mestranol, metalaxyl, metalaxyl (isomers), metamitron, metazachlor, metazachlor ESA, metazachlor OA, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methomyl oxime, methoxyfenozide, metconazole, metobromuron, metolachlor, metolachlor (isomers), metolachlor (S), metolachlor ESA, metolachlor OA, metoxuron, metrafenone, metribuzin, metribuzin-desamino, metribuzin-desamino diketo, metribuzin-diketo, molinate, monocrotophos, monolinuron, monuron, myclobutanil, napropamid, naptalam, neburon, nicosulfuron, norflurazon, nuarimol, omethoate, oxadiazon, oxadixyl, oxamyl, oxyfluorfen, paclobutrazol, paraquat, paraoxon-ethyl, paraoxon-methyl, parathion-ethyl, pencycuron, pendimethalin, penconazole, permethrin, pethoxamid, picloram, picoxystrobin, pirimiphos-ethyl, pirimiphos-methyl, pirimicarb, p-isopropylaniline, pretilachlor, primisulfuron-methyl, prodiamine, propham, profenofos, prochloraz, promecarb, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propanil, propaquizafop, propazine, propiconazole, propoxur, propoxycarbazone-sodium, propylene thiourea, propyzamide, prosulfocarb, prothioconazol, pyraclostrobin, pyribenzoxim, pyridaben, pyrimethanil, pyriproxyfen, quinalphos, quinclorac, quinmerac, quinoxyfen, quizalofop, quizalofop-p-ethyl, rimsulfuron, sebuthylazine, secbumeton, sedaxane, sethoxydim, simazine, simazine-2-hydroxy, simetryn, spiroxamine, sulfamethoxazol, sulfosulfuron, tau-fluvalinate, tebufenpyrad, tebuconazole, tebuthiuron, teflubenzuron, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, thiabendazole, thiacloprid, thiamethoxam, thiazafluron, thidiazuron, thifensulfuron-methyl, thiobencarb, thiophanate-methyl, tolkofos-methyl, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl,

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tricyclazole, trifloxystrobin, trifloxysulfuron sodium, triflumizole, triflumuron, triflusulfuron-methyl, triforine, trinexapac-ethyl, triticonazole, tritosulfuron, warfarin, zoxamide, calculation of sums according to CZ_SOP_D06_03_J02

**Pesticides, pesticide metabolites and drug residues[30A)] –** 6-chloronicotinic acid, acetampirid, acetochlor, alachlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametryn, amitraz, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desisopropyl, bifenthrin, cadusafos, cyanazine, cyhalothrin, cypermethrin, deltamethrin, desmetryn, diazinon, dichlorvos, dicrotophos, dimethoate, diuron, epoxiconazole, fenoxycarb, fipronil, fipronil sulfon, fonofos, phorate, phosalone, phosphamidon, phosmet, phosmet-oxon, hexazinone, chlorfenvinphos, chlormequat, chlorotoluron, chlorpyrifos, imidacloprid, imidacloprid olefin, imidacloprid urea, iprovalicarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, carbaryl, carbofuran, carbofuran-3-hydroxy, clomazone, clothianidin, kresoxim-methyl, malaoxon, malathion, mepiquat, metamitron, metazachlor, methidathion, methiocarb, methiocarb sulfon, methiocarb sulfoxide, methomyl, methomyl-oxim, metconazole, metolachlor (isomers), metribuzin, pendimethalin, permethrin, pethoxamid, picloram, prochloraz, prometon, prometryn, propaquizafop, propazine, propoxur, sebuthylazine, simazine, simetryn, tau-fluvalinate, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-hydroxy, terbutryn, thiacloprid, thiamethoxam, calculation of sums according to CZ_SOP_D06_03_J02

**Pesticides, pesticide metabolites and drug residues[30B)] –** 6-chloronicotinic acid, acetampirid, acetochlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, amitraz, bifenthrin, cadusafos, cyhalothrin, cypermethrin, deltamethrin, diazinon, dichlorvos, dicrotophos, dimethoate, epoxiconazole, fenoxycarb, fipronil, fipronil sulfon, phosphamidon, phosmet, phosmet-oxon, chlormequat, chlorpyrifos, imidacloprid, imidacloprid olefin, imidacloprid urea, iprovalicarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, carbaryl, carbofuran, carbofuran-3-hydroxy, clomazone, clothianidin, kresoxim-methyl, malaoxon, malathion, mepiquat, metazachlor, methidathion, methiocarb, methiocarb sulfon, methiocarb sulfoxide, methomyl, methomyl-oxim, metconazole, metolachlor (isomers), metribuzin, pendimethalin, permethrin, pethoxamid, picloram, prochloraz, prometon, prometryn, propaquizafop, propazine, propoxur, sebuthylazine, simazine, simetryn, tau-fluvalinate, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-hydroxy, terbutryn, thiacloprid, thiamethoxam, calculation of sums according to CZ_SOP_D06_03_J02

**Pesticides MS detection[31)] -** azinphos methyl, bromophos-ethyl, bromocyclen, butralin, captan, carbophenothion, demeton-S-methyl, diazinon, dichlorvos, dimethoate, dimethipin, ethion, fenamiphos, fenthion, chlordecon, chlorfenvinphos, chlorpyrifos, chlorpyrifos methyl, malathion, monocrotophos, parathion ethyl, parathion methyl, phorate, phosmet, pirimphos ethyl, prothiofos, fenitrothion, temephos, sums calculation according to CZ_SOP_D06_03_J02

**Pesticides and their metabolites MS detection [32)] -** amitrole, AMPA, glufosinate, glufosinate ammonium, glyphosate, sums calculation according to CZ_SOP_D06_03_J02

**Complexing substances[33)] -** EDTA, PDTA and NTA

**Halogen compounds[34)] -** chloroalkanes C10-C13

**SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6[35)] – SAFA** – butyric (C4:0), caproic (C6:0), caprylic (C8:0), capric (C10:0), undecaneoic (C11:0), lauric (C12:0), tridecaneoic (C13:0), miristic (C14:0), pentadecaneoic (C15:0), palmitic (C16:0), heptadecaneoic (C17:0), stearic (C18:0), arachidic (C20:0), heneicosanoic (C21:0), behenic (C22:0), tricosanoic (C23:0), lignoceric (C24:0), **MUFA** - myristoleic (C14:1), cis-10-pentadecenoic (C15:1), palmitoleic (C16:1), cis-10-heptadecenoic (C17:1), oleic (C18:1n9c), cis-11-eicoseinic (C20:1), erudic (C22:1n9), nervonic (C24:1), **PUFA -** linolelaidic (C18:2n6c), linoleic (C18:3n6), y-linoleic (C18:3n3), cis-11,14-eicosadienoic (C20:2), cis-8,11,14-eikosatrienoic (C20:3n6), cis-11,14,17-eikosatrienoic (C20:3n3), arachidonic (C20:4n6), cis-13,16-docosadienoic (C22:2), cis-5,8,11,14,18-eikosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), **TFA** - elaidic (C18:1n9t), linolelaidic (C18:2n6t), C18:3 trans isomers, **Omega 3 -** linoleic (C18:3n3), cis-11,14,17-eicosatrienoic (C20:3n3), cis-5,8,11,14,18-eicosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), **Omega 6 -** lineleic (C18:2n6c), y-linoleic (C18:3n6), cis-8,11,14-eikosatrienoic (C20:3n6), arachidonic (C20:4n6), cis-11,14,eikosadienoic (C20:2), cis-13,16-dokosadienoic (C22:2)

**Derivatives of polycyclic aromatic hydrocarbons[36)]** – acridine, 9,10-anthracenequinone, benz[a]anthracene-7,12-dione, benzo[h]quinoline, 1,5-dinitronaphthalene, 9H-fluoren-9-one, 2-fluorenecarboxaldehyde, 1-naphthalenecarboxaldehyde, 5,12-naphthacenedione, 1-nitronaphthalene, 5-nitroacenaphthene, 9-nitroanthracene, nitropyrene, nitrofluoranthene, 6-nitrobenzo(a)pyrene, 2-nitrofluorene, 9.10-phenanthrenequinone, phenanthridine

**Organic acids[37)]** – formic acid, acetic acid, caproic acid, butyric acid, isobutyric acid, lactic acid, propionic acid, valeric acid, isovaleric acid

**Gases[38)]** – methane, ethane, ethylene, acetylene

**Polychlorinated biphenyls[39)] -** PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, PCB194, sums calculation according to CZ_SOP_D06_03_J02

**Phenols and cresols[40)] –** phenol, o-cresol, m-cresol, p-cresol, 2,3-dimethylphenol, 2,4-dimethylphenol, 2,5-dimethylphenol, 2,6-dimethylphenol, 3,5-dimethylphenol, 3,4-dimethylphenol, sums calculation according to CZ_SOP_D06_03_J02

**Elements[41)] -** Ag, Al, As, Au, B, Ba, Be, Bi, Br, Ca, Cd, Ce, Co, Cr, Cr(VI), Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Ho, I, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, Sb, Sc, Se, Si, Sm, Sn, Sr, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr

**Elements [42)] -** Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cr(VI), Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Ho, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, Sb, Sc, Se, Sm, Sn, Sr, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr

**Elements [43)] -** Ag, Al, As, Ba, Be, Bi, Br (water extractable), Ca, Cd, Co, Cr, Cs, Cu, Fe, I (water extractable, total), K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, Pt, Rb, Rh, Sb, Se, Si, Sn, Sr, Te, Th, Ti, Tl, U, V, Zn, Zr

**Elements [44)] -** Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, Pt, Rb, Rh, Sb, Se, Si, Sn, Sr, Te, Th, Ti, Tl, U, V, Zn, Zr

**Elements [45)] -** Ag, Al, As, Au, Ba, Be, Bi, Br (loužitelný vodou), Ca, Cd, Co, Cr, Cr(VI), Cu, Fe, I (loužitelný vodou), K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, Pt, Rh, Sb, Se, Sn, Sr, Te, Ti, Tl, U, V, Zn, Zr

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**Semi volatile organic compounds**[46)] – Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3,c,d)pyrene, Coronene, PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180

**Elements**[47)] - Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr , Cr(VI), Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Te, Ti, Tl, V, Zn, Zr

**$CO_2$ forms**[48)] - carbonates, bicarbonates, free $CO_2$, total $CO_2$, aggressive $CO_2$

**Elements**[49)] - Ag, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, Pb and Zn

**Elements**[50)] - Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Se, Sb, Si, Sr, Sn, Te, Th, Ti, Tl, U, V, W, Zn and Zr

**Calculation forms of elements**[51)] – sum of Na + K, ionic form Cr and Fe ($Cr^{3+}$, $Fe^{3+}$), compounds $Na_2O$, $P_2O_5$, $SiO_3$ and $SiO_2$

**Stoichiometric calculation**[52)] - ion form $Cr^{3+}$, compound $PO_4^{3-}$

**Stoichiometric calculation**[53)] – compound NaCl

**Polycyclic aromatic hydrocarbons**[54)] – naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo (a) anthracene, chrysene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (a)-pyrene, benzo-(e)-pyrene, benzo-(j)-fluoranthene, benzo-(c)-phenanthrene, dibenzo (a, h) anthracene, benzo (g, h, i)-perylene, indeno (1,2,3, c, d) pyrene, phenanthrene-1-methyl, 2-methyl-phenanthrene, 3 - methyl phenanthrene, 4-methyl-phenanthrene, 9-methyl phenanthrene sums calculation according to CZ_SOP_D06_06_J03

**Chlorinated phenols**[55)] – 2-amino-4-chlorophenol

**Drug Residues**[56)] – anastrozole, atenolol, azathioprin, beclometasone dipropionate, ciclosporin, cyproterone acetate, diazepam, fluticasone propionate, capecitabine, loperamid hydrochlorid, medroxyprogesterone acetate, megestrol acetate, methotrexate, methylprednisolone acetate, metronidazol, mometasone furoate, mycofenolate mofetil, paclitaxel, sotalol hydrochloride, tacrolimus, thebain, tramadol hydrochloride, triamcinolone acetonide, valsartan, zolpidem tartrate

**Synthetic dyes**[57)] – **E102** (Tartrazine), **E104** (Quinoline yellow)**, E110** (Yellow SY), **E122** (Azorubin), **E123** (Amaranth), **E124** (Ponceau 4R)**, E127** (Erythrosin)**, E128** (Red 2G)**, E129** (Allura Red AC), **E131** (Patent Blue V), **E132** (Indigotine), **E133** (Brilliant Blue), **E142** (Green S)**, E151** (Black BN)

**Perfluorinated compounds**[58)] – 6:2 FTS, 8:2 FTS, N-Et-FOSA, N-Et-FOSE, N-Me-FOSA, N-Me-FOSE, PFBA, PFBS, PFDA, PFDoA, PFDS, PFDoS, PFHpA, PFHpS, PFHxA, PFHxS, PFNA, PFOA, PFOS, PFOSA, PFPeA, PFTA, PFTrDA, PFUnA

**Perfluorinated compounds**[58A)] – 6:2 FTS, 8:2 FTS, PFBA, PFBS, PFDA, PFDoA, PFDS, PFHpA, PFHpS, PFHxA, PFHxS, PFNA, PFOA, PFOS, PFOSA, PFPeA, PFUnA

**Volatile organic compounds**[59)] – benzene, toluene, ethylbenzene, m-xylene, p-xylene, styrene, o-xylene, metanol, etanol, acetone, benzene, ethylacetate, isobutanol, n-butanol, 2-butanol, iso-butylacetate, butylacetate, tert-butylacetate

**Elements**[60)] - Ag, Al, As, Au, B, Ba, Be, Bi, Br (water-leachable) Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hg, Ho, I (water-leachable) In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, Os, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr

**Residual pharmaceuticals**[61)] – 17-alpha-ethinylestradiol, 17-beta-estradiol, anastrozole, atenolol, azathioprin, buprenorphine, butorphanol, cyclobenzaprine, cyklofosfamid, cyproteron acetate, diazepam, diclofenac, enalapril, estriol, estrone, flutamide, fluticasone propionate, furosemide, gemfibrozil, hydrochlorothiazide, chloramphenicol, ibuprofen, ifosfamide, iohexol, iomeprol, iopamidol, iopromid, capecitabine, carbamazepine, ketoprofen, caffeine, clofibric acid, loperamide, medroxyprogesteron acetate, megestrol acetate, metoprolol, metronidazole, mycofenolate mofetil, naproxen, oxazepam, paclitaxel, paracetamol (acetaminofen), piroxicam, propranolol, salbutamol, sotalol, sulfamethoxazole, terbutaline, tramadol, triamcinolon acetonide, trimethoprim, valsartan, warfarin, zolpidem

Annex:

Flexible scope of accreditation

| Ordinal numbers of tests |
|---|
| 1-434 |

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.

No changes can be made by the laboratory in the tests not included in the annex (fixed scope of accreditation).

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**Sampling**:

| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| **1**[1)2)4)5)6)7)8)] | Sampling of grab sample of surface water manually | CZ_SOP_D06_07_V01 (ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN ISO 5667-4, ČSN ISO 5667-6, ČSN ISO 5667-14) | surface water |
| **2**[1)2)4)5)6)7)8)] | Sampling of grab sample of waste water manually | CZ_SOP_D06_07_V02 (ČSN EN ISO 5667–1, ČSN EN ISO 5667-3, ČSN ISO 5667–10, ČSN ISO 5667-14,) | waste water |
| **3**[1)2)4)5)6)7)8)] | Sampling of drinking water and hot drinking water manually | CZ_SOP_D06_07_V03 (ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN ISO 5667–5, ČSN ISO 5667–14, ČSN EN ISO 5667–21, ČSN EN ISO 19458 Regulation 252/2004 Sb., Regulation SÚJB No. 307/2002 Sb.) | drinking water, hot drinking water |
| **4**[1)2)4)5)6)7)8)] | Sampling of mixed sample of waste water manually and using an automatic sampler | CZ_SOP_D06_07_V04 (ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN ISO 5667–10, ČSN ISO 5667-14, Regulation 293/2002 Sb.) | waste water |
| **5**[1)2)4)5)6)7)8)] | Sampling of treated water manually | CZ_SOP_D06_07_V05 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-5, ČSN ISO 5667-7, ČSN ISO 5667-14) | treated water |
| **6**[1)2)4)5)6)7)8)] | Sampling of water from artificial pool manually | CZ_SOP_D06_07_V06 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-4, ČSN ISO 5667–5, ČSN ISO 5667-6, ČSN ISO 5667-14, ČSN EN ISO 19458, ČSN EN ISO 15288-2, Regulation No. 238/2011 Sb.) | pools water and filling water of artificial pools |
| **7**[1)2)4)5)6)7)8)] | Sampling of grab sample of ground water manually and using pumps | CZ_SOP_D06_07_V07 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-11, ČSN ISO 5667-14, ČSN ISO 5667-18) | Ground water from boreholes and wells |
| **8**[1)2)4)5)6)7)8)] | Sampling of surface swab manually | CZ_SOP_D06_07_V08 (ČSN 56 0100 Change 6, ČSN ISO 18593, Regulation 289/2007 Sb., ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-14) | contaminated surfaces |
| **9**[1)2)4)5)6)7)8)] | Sampling of the sludge from sewage and treatment plants manually | CZ_SOP_D06_07_V09 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN ISO 5667-14, ČSN EN ISO 5667-15, ČSN EN ISO 19458) | sludge from water treatment plants, sludge dumps |
| **10**[1)2)4)5)6)7)8)] | Sampling of bottom sediments manually | CZ_SOP_D06_07_V10 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-12, ČSN ISO 5667-14, ČSN EN ISO 5667–15, ČSN ISO 5667–17) | Bottom sediments from streams and reservoirs |

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

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| Ordinal number | Test procedure/Method name | Test procedure/Method identification | Tested object |
|---|---|---|---|
| **11**[1)2)4)5)6)7)8)] | Sampling of soils manually | CZ_SOP_D06_07_V11<br>(ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN EN ISO 5667–13, ČSN ISO 5667–14, ČSN ISO 5667–15, TNI CEN/TR 15310-1, TNI CEN/TR 15310-2, TNI CEN/TR 15310-3, TNI CEN/TR 15310-4, TNI CEN/TR 15310-5 ČSN 015110, ČSN 015111, ČSN EN 14899, ČSN EN ISO 19458, ČSN ISO 10381-6) | soils |
| **12**[1)2)4)5)6)7)8)] | Sampling of waste manually | CZ_SOP_D06_07_V12<br>(ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN EN ISO 5667–13, ČSN ISO 5667–14, ČSN ISO 5667–15, TNI CEN/TR 15310-1, TNI CEN/TR 15310-2, TNI CEN/TR 15310-3, TNI CEN/TR 15310-4, TNI CEN/TR 15310-5, ČSN 015110, ČSN 015111, ČSN 015112, ČSN EN 14899, ČSN EN ISO 19458, ČSN EN ISO 3170, Methodological Guide of ME for Waste Sampling 2008, 101s) | Waste |
| **13**[1)2)4)5)6)7)8)] | Air sampling by personal pump | CZ_SOP_D06_07_V13<br>(ČSN EN 481, ČSN EN 482, ČSN EN 689, GR No. 361/2007 Coll..) | working environment |
| **14** [1)] | Sampling of food by random sampling method | CZ_SOP_D06_04_V14 | Packages foods and beverages |
| **15**[1)2)4)5)6)7)8)] | Gas sampling for the determination of ammonia | CZ_SOP_D069_07_V15<br>(ČSN 834728) | gases |