



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. 98/2024

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

for the Testing Laboratory No. 1163  
ALS Czech Republic, s.r.o.

Scope of accreditation:

Chemical, radiochemical and microbiological analyses of water, extracts, liquids, soils, waste, sludge, oils, sediments, rocks, solid samples, building materials, materials for building, emissions, immissions, working environment, gases from biogas stations and landfill gases, biological materials, food, feed, cosmetics, pharmaceutical raw materials and products, lubricants, fuels, ecotoxicological testing of waste and water, sensory analyses of food, sampling of water, sediments, soils, outdoor and indoor air, working environment and foodstuffs 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 17025:2018


In its activities performed within the scope and for the period of validity of this Certificate, the Conformity Assessment Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited 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.: 325/2023 of 19. 6. 2023, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **14. 2. 2027**

Prague: 1. 3. 2024



  
Jan Velíšek  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

**The Appendix is an integral part of  
Certificate of Accreditation No: 98/2024 of 01/03/2024**

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**ALS Czech Republic, s.r.o.**

**Subject number 1163, ALS Czech Republic, s.r.o.**

Na Harfě 333/9, 190 00 Praha 9 - Vysočany

**Testing laboratory Workplaces:**

|    |                             |   |
|----|-----------------------------|---|
| 1  | <b>Praha</b>                | Na Harfě 336/9, 190 00 Praha 9                      |
| 2  | <b>Česká Lípa</b>           | Bendlova 1687/7, 470 01 Česká Lípa                  |
| 3  | <b>Pardubice</b>            | V Ráji 906, 530 02 Pardubice                        |
| 4  | <b>Brno</b>                 | Videňská 134/102, 619 00 Brno                       |
| 5  | <b>Ostrava</b>              | Vratimovská 11, 718 00 Ostrava                      |
| 6  | <b>Plzeň</b>                | Lobezská 15, 30146 Plzeň                            |
| 7  | <b>Lovosice</b>             | U Zdymadel 827, 410 02 Lovosice                     |
| 8  | <b>Rožnov pod Radhoštěm</b> | 1. Máje 823, budova C6, 756 61 Rožnov pod Radhoštěm |
| 9  | <b>Kroměříž</b>             | Kotojedská 2588/91, 767 01 Kroměříž                 |
| 10 | <b>Praha</b>                | Na Harfě 916/9a, 190 00 Praha 9                     |
| 11 | <b>Praha</b>                | Kolbenova 942/38a, 190 00 Praha 9                   |
| 12 | <b>Liberec</b>              | Jugoslávská 11, 460 07 Liberec                      |

*The laboratory applies a flexible approach to the scope of accreditation.*

*The current list of activities carried out within the flexible scope is publicly available on the laboratory's website <https://www.alsglobal.cz/home/formulare-a-dokumenty-ke-stazeni> in the form „List of activities within the flexible scope of accreditation“.*

*The laboratory provides opinions and interpretations of the test results.*

*The laboratory is qualified to carry out standalone sampling.*

*Detailed information on activities within the scope of accreditation (determined analytes / tested subject / source literature) is given in the section „Specification of the scope of accreditation“*

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name   | Test procedure / method identification <sup>2</sup>  | Tested subject  | Degrees of freedom <sup>3</sup> |
|-----------------------------|--|--|---|---------------------------------|
| <b>1</b>                    | <b>General Chemistry</b>   |  |   |                                 |
| 1.1 <sup>1</sup>            | Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg | CZ_SOP_D06_02_001<br>(US EPA Method 200.7;<br>ČSN EN ISO 11885;<br>US EPA Method 6010;<br>SM 3120;<br>ČSN 75 7358) | Water, extracts, liquid samples                                 | A, B, D                         |
| 1.2 <sup>1</sup>            | Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values  | CZ_SOP_D06_02_001<br>(US EPA Method 200.7;<br>ČSN EN ISO 11885;<br>US EPA Method 6010;<br>SM 3120)                 | Solid samples,<br>building materials,<br>materials for building | A, B, D                         |

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| <b>Ordinal number<sup>1</sup></b> | <b>Test procedure / method name</b>   | <b>Test procedure / method identification<sup>2</sup></b>   | <b>Tested subject</b>   | <b>Degrees of freedom<sup>3</sup></b> |
|-----------------------------------|---|---|---|---------------------------------------|
| 1.3 <sup>1</sup>                  | Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values   | CZ_SOP_D06_09_001<br>(US EPA Method 200.7;<br>ČSN EN ISO 11885)   | Food, feed  | A, B, D                               |
| 1.4 <sup>1</sup>                  | Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values   | CZ_SOP_D06_09_001<br>(US EPA Method 200.7;<br>ČSN EN ISO 11885)   | Biological material   | A, B, D                               |
| 1.5 <sup>1</sup>                  | Determination of elements by atomic emission spectrometry with inductively coupled plasma and calculation of Cr <sup>3+</sup> from measured values  | CZ_SOP_D06_02_001<br>(US EPA Method 200.7;<br>ČSN EN ISO 11885;<br>ČSN EN 13211;<br>ČSN EN 14385;<br>ČSN EN 14902;<br>IO 3.4, US EPA Method 29) | Emission, imission  | A, B, D                               |
| 1.6 <sup>1</sup>                  | Determination of elements by atomic emission spectrometry with inductively coupled plasma   | CZ_SOP_D06_09_001<br>(US EPA Method 200.7;<br>ČSN EN ISO 11885;<br>ČL/PhEur/USP)  | Farmaceutical material  | A, B, D                               |
| 1.7 <sup>1</sup>                  | Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg | CZ_SOP_D06_02_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2;<br>US EPA Method 6020A;<br>ČSN 75 7358)                                       | Water, extracts, liquid samples                                 | A, B, D                               |
| 1.8 <sup>1</sup>                  | Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values  | CZ_SOP_D06_02_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2;<br>US EPA Method 6020A)   | Solid samples,<br>building materials,<br>materials for building | A, B, D                               |
| 1.9 <sup>1</sup>                  | Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values  | CZ_SOP_D06_09_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2;<br>ČSN EN 15111)  | Food, feed  | A, B, D                               |

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| <b>Ordinal number<sup>1</sup></b> | <b>Test procedure / method name</b>  | <b>Test procedure / method identification<sup>2</sup></b>   | <b>Tested subject</b>                          | <b>Degrees of freedom<sup>3</sup></b> |
|-----------------------------------|--|---|--|---------------------------------------|
| 1.10 <sup>1</sup>                 | Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_09_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2)   | Biological material                            | A, B, D                               |
| 1.11 <sup>1</sup>                 | Determination of elements by mass spectrometry with inductively coupled plasma and calculation of Cr <sup>3+</sup> from measured values                        | CZ_SOP_D06_02_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2;<br>ČSN EN 13211;<br>ČSN EN 14385;<br>ČSN EN 14902;<br>US EPA Method 29) | Emission, imission                             | A, B, D                               |
| 1.12 <sup>1</sup>                 | Determination of elements by mass spectrometry with inductively coupled plasma   | CZ_SOP_D06_09_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2;<br>ČSN EN 15111;<br>ČL/PhEur/USP)                                       | Farmaceutical material                         | A, B, D                               |
| 1.13 <sup>1</sup>                 | Determination of Hg by atomic absorption spectrometry  | CZ_SOP_D06_02_003<br>(ČSN 46 5735;<br>ČSN 75 7440;<br>ČSN EN ISO 12846)   | Emission, imission                             | D                                     |
| 1.14 <sup>2</sup>                 | Determination of Hg by single-purpose atomic absorption spectrometer   | CZ_SOP_D06_07_004<br>(ČSN 75 7440;<br>ČSN 46 5735)  | Water, extracts, liquid samples, solid samples | D                                     |
| 1.15 <sup>2</sup>                 | Determination of elements by flame AAS method and stoichiometric calculations of compounds concentration from measured values                                  | CZ_SOP_D06_07_005<br>(ČSN ISO 8288;<br>ČSN 75 7400;<br>ČSN EN 1233;<br>ČSN ISO 7980;<br>ČSN ISO 9964;<br>Perkin-Elmer specifications)     | Water, extracts, liquid samples                | A, B, D                               |
| 1.16 <sup>2</sup>                 | Determination of elements by flame AAS method and stoichiometric calculations of compounds concentration from measured values                                  | CZ_SOP_D06_07_005<br>(ČSN ISO 8288;<br>ČSN 75 7400;<br>ČSN EN 1233,<br>ČSN ISO 7980;<br>ČSN ISO 9964;<br>Perkin-Elmer specifications)     | Solid samples                                  | A, B, D                               |

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|-----------------------------------|---|---|---|---------------------------------------|
| 1.17 <sup>2</sup>                 | Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_07_006<br>(ČSN EN ISO 11885;<br>AITM3-0032)                    | Water, extracts, liquid samples                             | A, B, D                               |
| 1.18 <sup>2</sup>                 | Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | CZ_SOP_D06_07_006<br>(ČSN EN ISO 11885;<br>ČSN EN 15410;<br>ČSN EN 15411) | Solid samples,<br>solid recovered fuels                     | A, B, D                               |
| 1.19 <sup>2</sup>                 | Determination of Kjeldahl nitrogen by spectrophotometry   | CZ_SOP_D06_07_007.A<br>(ČSN EN 25663;<br>ČSN ISO 7150-1)                  | Water, extracts   | D                                     |
| 1.20 <sup>2</sup>                 | Determination of Kjeldahl nitrogen by spectrophotometry   | CZ_SOP_D06_07_007.B<br>(ČSN EN 25663;<br>ČSN EN 13342;<br>ČSN ISO 7150-1) | Solid samples   | D                                     |
| 1.21 <sup>2</sup>                 | Determination of Cr <sup>VI</sup> by spectrophotometry with diphenylcarbazide   | CZ_SOP_D06_07_008<br>(ČSN ISO 11083)                                      | Water, extracts, absorption solutions from emission samples | D                                     |
| 1.22 <sup>2</sup>                 | Determination of total phosphorus and orthophosphate by spectrophotometry and calculation of P <sub>2</sub> O <sub>5</sub> from measured values                           | CZ_SOP_D06_07_009.A<br>(ČSN EN ISO 6878)                                  | Water, extracts   | D                                     |
| 1.23 <sup>2</sup>                 | Determination of total phosphorus by spectrophotometry and P <sub>2</sub> O <sub>5</sub> determination by calculation from measured values                                | CZ_SOP_D06_07_009.B<br>(ČSN EN 14672;<br>ČSN EN ISO 6878)                 | Sludge, technological sludge products                       | D                                     |
| 1.24 <sup>1</sup>                 | Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values            | CZ_SOP_D06_09_002<br>(US EPA Method 200.8;<br>ČSN EN ISO 17294-2)         | Cosmetics products  | A, B, D                               |
| 1.25 <sup>2</sup>                 | Determination of gas production (GS <sub>21</sub> ) by incubation test  | CZ_SOP_D06_07_010<br>(ÖNORM S 2027-2)                                     | Wastes, sludges, composts, soils                            | D                                     |
| 1.26 – 1.28                       | Reserved  |   |   |                                       |
| 1.29 <sup>2</sup>                 | Determination of nonionic surfactants (BiAS) by spectrophotometry using the HACH cuvette test   | CZ_SOP_D06_07_014<br>(Hach Instruction)                                   | Water, extracts   | A, D                                  |

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|-----------------------------------|--|--|---|---------------------------------------|
| 1.30 <sup>2</sup>                 | Determination of sum of sulfan and sulfide by spectrophotometry and calculation of free sulfan from measured values  | CZ_SOP_D06_07_015.A<br>(ČSN 83 0520-16:1978;<br>ČSN 83 0530-31:1980;<br>SM 4500-S2-D)  | Water, extracts   | A, D                                  |
| 1.31 <sup>2</sup>                 | Determination of sum of sulfan and sulfide by spectrophotometry  | CZ_SOP_D06_07_015.B<br>(ČSN 83 0520-16:1978;<br>ČSN 83 0530-31:1980)   | Solid samples,<br>building materials, materials for building                | D                                     |
| 1.32 <sup>2</sup>                 | Determination of sum of sulfan and sulfide by spectrophotometry  | CZ_SOP_D06_07_015.C<br>(ČSN 83 0520-16:1978;<br>ČSN 83 0530-31:1980;<br>ČSN 83 4712 č. 3)  | Absorption solutions from emission samples                                  | D                                     |
| 1.33 <sup>1</sup>                 | Determination of sulfate by turbidimetry using discrete spectrophotometry and calculation of sulfate sulfur from measured values   | CZ_SOP_D06_02_016<br>(US EPA Method 375.4;<br>SM 4500-SO <sub>4</sub> <sup>2-</sup> )  | Water, extracts   | A, D                                  |
| 1.34 <sup>2</sup>                 | Determination of nitrite sum and sum of nitrite and nitrate nitrogen by discrete spectrophotometry and calculation of nitrites and nitrates from measured values   | CZ_SOP_D06_02_019<br>(ČSN EN ISO 11732;<br>ČSN EN ISO 13395;<br>SM 4500-NO <sub>2</sub> ;<br>SM 4500-NO <sub>3</sub> )   | Liquid samples  | D                                     |
| 1.35 <sup>1</sup>                 | Determination of the number of asbestos and mineral fibers by SEM/EDS  | CZ_SOP_D06_02_018<br>(ISO 14966, except chap. 5, 6.1 and 6.2;<br>VDI 3492, except chap. 5 and 6;<br>Decree No. 6/2003 Coll.;<br>Government Decree No. 361/2007 Coll., Annex No. 3) | Outdoor and indoor air, working environment - exposed filters               | D                                     |
| 1.36 <sup>1</sup>                 | Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia, and dissociated ammonium ions from measured values including the calculation of total mineralization | CZ_SOP_D06_02_019<br>(ČSN EN ISO 11732;<br>ČSN EN ISO 13395;<br>SM 4500-NO <sub>2</sub> ;<br>SM 4500-NO <sub>3</sub> )   | Water, extracts   | D                                     |
| 1.37 <sup>2</sup>                 | Determination of sum of ammonia and ammonium ions by spectrophotometry and calculation of ammonia nitrogen, free ammonia, and dissociated ammonium ions from measured values   | CZ_SOP_D06_07_020<br>(ČSN ISO 7150-1;<br>ČSN EN ISO 21877)   | Water, extracts, liquid samples, absorption solutions from emission samples | D                                     |

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|-----------------------------------|---|---|---|---------------------------------------|
| 1.38 <sup>2</sup>                 | Determination of nitrite nitrogen by spectrophotometry and calculation of nitrite from measured values  | CZ_SOP_D06_07_021<br>(ČSN EN 26777)   | Water, extracts   | A, D                                  |
| 1.39 <sup>1</sup>                 | Determination of orthophosphate by discrete spectrophotometry and calculation of orthophosphate's phosphorus from measured values including the calculation of total mineralization | CZ_SOP_D06_02_022<br>(ČSN EN ISO 6878;<br>SM 4500-P)  | Water, extracts   | A, D                                  |
| 1.40 <sup>2</sup>                 | Determination of chloride by potentiometric titration   | CZ_SOP_D06_07_023.A<br>(ČSN 03 8526:1989;<br>ČSN 83 0530-20:1980;<br>SM 4500-Cl <sup>-</sup> D) | Water, extracts, liquid samples                           | D                                     |
| 1.41 <sup>2</sup>                 | Determination of chloride by potentiometric titration and calculation of NaCl from measured values  | CZ_SOP_D06_07_023.B<br>(ČSN EN 480-10)  | Solid samples, building materials, materials for building | A, D                                  |
| 1.42 <sup>1</sup>                 | Determination of Hg by atomic absorption spectrometry   | CZ_SOP_D06_09_024<br>(ČSN 75 7440)  | Food, feed, cosmetic products                             | A, D                                  |
| 1.43 <sup>2</sup>                 | Determination of extractable organically bound halogens (EOX) by coulometry   | CZ_SOP_D06_07_025.A<br>(DIN 38409-H8)   | Water, extracts   | A, D                                  |
| 1.44 <sup>2</sup>                 | Determination of extractable organically bound halogens (EOX) by coulometry   | CZ_SOP_D06_07_025.B<br>(DIN 38414-S17)  | Solid samples   | D                                     |
| 1.45 <sup>2</sup>                 | Determination of adsorbable organically bound halogens (AOX by coulometry)  | CZ_SOP_D06_07_026<br>(ČSN EN 16166;<br>DIN 38414-S18)   | Solid samples   | D                                     |
| 1.46 <sup>2</sup>                 | Determination of total halogens (TX) by coulometry  | CZ_SOP_D06_07_027<br>(US EPA Method 9076;<br>ČSN EN 14077)                                      | Solid samples, oils, organic solvents                     | D                                     |
| 1.47 <sup>2</sup>                 | Determination of adsorbable organically bound halogens (AOX) and dissolved organically bound halogens (DOX) by coulometry   | CZ_SOP_D06_07_028<br>(ČSN EN ISO 9562;<br>TNI 757531)   | Water, extracts   | A, D                                  |
| 1.48 <sup>2</sup>                 | Determination of phenol index by spectrophotometric method after distillation   | CZ_SOP_D06_07_029<br>(ČSN ISO 6439)   | Solid samples   | D                                     |
| 1.49 – 1.50                       | Reserved  |   |   |                                       |
| 1.51 <sup>2</sup>                 | Determination of absorbance and transmittance by spectrophotometry  | CZ_SOP_D06_07_032<br>(ČSN 75 7360)  | Water, extracts   | A, D                                  |

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|-----------------------------------|--|--|--|---------------------------------------|
| 1.52*<br>1,2,3,4,5,6,7,<br>8,9    | Field measurement of turbidity ZFn by turbidimeter   | CZ_SOP_D06_01_033<br>(ČSN EN ISO 7027-1)   | Water  | D                                     |
| 1.53 <sup>2</sup>                 | Determination of humic substances by spectrophotometry   | CZ_SOP_D06_07_034<br>(ČSN 75 7536)   | Drinking, raw, surface, ground water                                     | D                                     |
| 1.54 <sup>2</sup>                 | Determination of water colour by spectrophotometric method   | CZ_SOP_D06_07_035<br>(ČSN EN ISO 7887)   | Water, extracts  | D                                     |
| 1.55 <sup>2</sup>                 | Determination of electrical conductivity   | CZ_SOP_D06_07_036<br>(ČSN EN 27888)  | Water, extracts, liquid samples  | D                                     |
| 1.56 <sup>2</sup>                 | Determination of pH electrochemically  | CZ_SOP_D06_07_037<br>(ČSN ISO 10523)   | Water, extracts, liquid samples  | D                                     |
| 1.57 <sup>2</sup>                 | Biodegradation of organic compounds in aqueous medium – Static test (Zahn-Wellens method) calculated from the measured values of COD <sub>Cr</sub> | CZ_SOP_D06_07_038<br>(ČSN EN ISO 9888;<br>OECD 302B with COD <sub>Cr</sub><br>determination according to CZ_SOP_D06_07_040)  | Chemicals and chemical products, water and waste leachate                | D                                     |
| 1.58                              | Reserved   |  |  |                                       |
| 1.59 <sup>2</sup>                 | Determination of chemical oxygen demand using dichromate (COD <sub>Cr</sub> ) by titration   | CZ_SOP_D06_07_040<br>(ČSN ISO 6060)  | Water, extracts  | D                                     |
| 1.60                              | Reserved   |  |  |                                       |
| 1.61 <sup>2</sup>                 | Determination of analytical water and gross water by gravimetry and calculation of total water from measured values                                | CZ_SOP_D06_07_041<br>(ČSN 44 1377;<br>ČSN EN ISO 18134-1;<br>ČSN EN ISO 18134-2;<br>ČSN EN ISO 18134-3;<br>ČSN P CEN/TS 15414-1;<br>ČSN P CEN/TS 15414-2;<br>ČSN EN ISO 21660-3;<br>ČSN EN 12880;<br>ČSN EN 14346:2007;<br>ČSN EN 15002) | Solid fossil fuels, solid biofuels, solid recovered fuels, sludge, waste | D                                     |
| 1.62–<br>1.63                     | Reserved   |  |  |                                       |
| 1.64 <sup>1</sup>                 | Determination of dissolved oxygen (in the laboratory) by electrochemical method with optical sensor  | CZ_SOP_D06_02_043<br>(ČSN ISO 17289)   | Water  | D                                     |
| 1.65*<br>1,2,3,4,5,6,7,<br>8,9    | Determination of dissolved oxygen by electrochemical method with membrane probe  | CZ_SOP_D06_01_044<br>(ČSN EN ISO 5814)   | Water  | D                                     |



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|-----------------------------------|---|--|--|---------------------------------------|
| 1.66 <sup>1,3</sup>               | Determination of dry matter by gravimetry and calculation of moisture from measured values  | CZ_SOP_D06_01_045<br>(ČSN ISO 11465;<br>ČSN EN 12880;<br>ČSN EN 14346:2007)  | Solid samples  | D                                     |
| 1.67 <sup>2</sup>                 | Determination of dry matter by gravimetry and calculation of moisture from measured values  | CZ_SOP_D06_07_046<br>(ČSN ISO 11465;<br>ČSN EN 12880;<br>ČSN EN 14346:2007;<br>ČSN 46 5735)  | Solid samples  | A, D                                  |
| 1.68 <sup>2</sup>                 | Determination of ash by gravimetry and calculation of loss on ignition from measured values   | CZ_SOP_D06_07_047.A<br>(ČSN EN 15935;<br>ČSN EN 13039;<br>ČSN 72 0103;<br>ČSN 46 5735)   | Solid samples,<br>silicate materials   | A, D                                  |
| 1.69                              | Reserved  |  |  |                                       |
| 1.70 <sup>2</sup>                 | Determination of ash by gravimetry and calculation of loss on ignition from measured values   | CZ_SOP_D06_07_047.C<br>(ČSN ISO 1171;<br>ČSN EN ISO 18122;<br>ČSN EN ISO 21656;<br>ČSN EN ISO 6245)  | Solid and liquid fuels   | D                                     |
| 1.71 <sup>1</sup>                 | Qualitative determination of asbestos by SEM/EDS  | CZ_SOP_D06_02_048<br>(ISO 22262-1;<br>VDI 3866, part 5;<br>DM06/09/94 GU n° 288<br>10/12/1994 All. 1 Met. B –<br>quantitative determination) | Solid samples (except liquid waste, biowaste) building materials, materials for building | D                                     |
| 1.72 <sup>1</sup>                 | Qualitative determination of asbestos by SEM/EDS  | CZ_SOP_D06_02_049<br>(VDI 3866, part 5;<br>DM 06/09/94 GU n° 288<br>10/12/1994 All. 1 Met. B;<br>IFA Workbook 7487)                          | Solid samples (except liquid waste, biowaste) building materials, materials for building | D                                     |
| 1.73 <sup>2</sup>                 | Determination of water content by Karl Fischer method   | CZ_SOP_D06_07_050<br>(ČSN ISO 760)   | Liquid samples,<br>solid samples   | D                                     |
| 1.74                              | Reserved  |  |  |                                       |
| 1.75 <sup>2</sup>                 | Determination of suspended solids, fixed suspended solids, total solids, and fixed total solids by gravimetry and calculation of volatile suspended solids and volatile total solids from measured values | CZ_SOP_D06_07_052<br>(ČSN 75 7350;<br>SM 2540 B;<br>SM 2540 D;<br>SM 2540 E)   | Water, extracts  | D                                     |
| 1.76 <sup>2</sup>                 | Determination of suspended solids using glass fibre filters by gravimetry   | CZ_SOP_D06_07_053<br>(ČSN EN 872)  | Water, extracts  | D                                     |

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|-----------------------------------|--|---|---|---------------------------------------|
| 1.77 <sup>2</sup>                 | Determination of dissolved solids (RL105) and fixed dissolved solids (RAS) using glass fibre filters by gravimetry and calculation of volatile dissolved solids from measured values | CZ_SOP_D06_07_054<br>(ČSN 75 7346;<br>ČSN 75 7347)  | Water, extracts   | D                                     |
| 1.78 <sup>2</sup>                 | Determination of total carbon (TC) and inorganic carbon (TIC) by IR detection and calculation of total organic carbon (TOC), carbonates and organic matter from measured values      | CZ_SOP_D06_07_055<br>(ČSN EN 13137:2002;<br>ČSN EN 15936;<br>ČSN ISO 10694)   | Solid samples, building materials, materials for building | D                                     |
| 1.79 <sup>1</sup>                 | Determination of total organic carbon (TOC), dissolved organic carbon (DOC), total inorganic carbon (TIC) and total carbon (TC) by IR detection                                      | CZ_SOP_D06_02_056<br>(ČSN EN ISO 20236;<br>SM 5310)   | Water, extracts   | D                                     |
| 1.80 <sup>1</sup>                 | Determination of nonpolar extractive substances by infrared spectrometry and calculation of polar extractive substances from measured values   | CZ_SOP_D06_02_057<br>(ČSN 75 7505:2006;<br>SS 028145;<br>STN 83 0520-27:2015;<br>STN 83 0530-36;<br>STN 830540-4;<br>US EPA Method 418.1;<br>SM 5520 F;<br>DS/R 209;<br>SFS 3010) | Water, extracts   | D                                     |
| 1.81 <sup>1</sup>                 | Determination of extractive and non-polar extractive compounds by infrared spectrometry and calculation of polar extractive substances from measured values                          | CZ_SOP_D06_02_058<br>(SS 028145;<br>TNV 75 8052;<br>ISO/TR 11046;<br>US EPA Method 418.1,<br>SM 5520 F;<br>DS/R 209;<br>SFS 3010)   | Solid samples   | D                                     |
| 1.82 <sup>1</sup>                 | Determination of extractive substances by infrared spectrometry and calculation of polar extractive substances from measured values  | CZ_SOP_D06_02_059<br>(ČSN 75 7506;<br>SS 028145;<br>STN 83 0520-27:2015;<br>STN 83 0540-4;<br>DS/R 209;<br>SFS 3010)  | Water, extracts   | D                                     |

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|------------------------------------|---|---|---|---------------------------------------|
| 1.83 <sup>1</sup>                  | Determination of alpha modification of silicon dioxide in respirable dust by infrared spectrometry  | CZ_SOP_D06_02_060<br>(NIOSH 7602)   | Dust  | D                                     |
| 1.84*<br>1,2,3,4,5,6,7,<br>8,9,12  | 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_01_061<br>(Instruction of the HACH COMPANY;<br>ČSN EN ISO 7393-2)              | Drinking water, warm water, raw water                       | A, B, D                               |
| 1.85*<br>1,2,3,4,5,6,7,<br>8,9,12, | Field measurement of temperature  | ČSN 75 7342   | Water   | D                                     |
| 1.86*<br>1,2,3,4,5,6,7,<br>8,9     | Field measurement of electrical conductivity  | CZ_SOP_D06_01_063<br>(ČSN EN 27888)   | Water   | D                                     |
| 1.87*<br>1,2,3,4,5,6,7,<br>8,9,12, | Field measurement of pH electrochemically   | CZ_SOP_D06_01_064<br>(ČSN ISO 10523)  | Water   | D                                     |
| 1.88 <sup>1</sup>                  | Sensory analysis of water – determination of odour and taste  | CZ_SOP_D06_09_065<br>(TNV 75 7340:2005<br>ČSN EN 1622;<br>STN EN 1622)                    | Drinking water  | D                                     |
| 1.89 <sup>2</sup>                  | Determination of phenols by continuous flow analysis (CFA) method spectrophotometrically  | CZ_SOP_D06_07_066<br>(ČSN EN ISO 14402;<br>Instruction of the SKALAR company)             | Water, extracts, absorption solution from emission sampling | D                                     |
| 1.90 <sup>2</sup>                  | Determination of anionic surfactants by methylene blue (MBAS) by continuous flow analysis (CFA) method spectrophotometrically   | CZ_SOP_D06_07_067<br>(ČSN ISO 16265;<br>Instruction of the SKALAR company;<br>ČSN EN 903) | Water, extracts   | D                                     |
| 1.91 <sup>1</sup>                  | Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization | CZ_SOP_D06_02_068<br>(ČSN EN ISO 10304-1)   | Water, extracts   | A, B, D                               |
| 1.92                               | Reserved  |   |   |                                       |
| 1.93 <sup>1</sup>                  | Determination of dry suspended solids and annealed suspend solids by gravimetry and calculation of loss of ignition of suspend solids and total solids from measured values   | CZ_SOP_D06_02_070<br>(ČSN EN 872;<br>ČSN 757350;<br>SM 2540 D;<br>SM 2540 E)              | Water, extracts   | D                                     |

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|-----------------------------------|---|--|---------------------------------|---------------------------------------|
| 1.94 <sup>1</sup>                 | Determination of dissolved solids (RL) and dissolved solid annealed (RAS) using glass fibre filters by gravimetry and calculation of loss on ignition of dissolved solids (RL550) from measured values                          | CZ_SOP_D06_02_071<br>(ČSN 75 7346;<br>ČSN 757347;<br>ČSN EN 15216;<br>SM 2540 C;<br>SM 2540 E) | Water, extracts                 | D                                     |
| 1.95 <sup>1</sup>                 | Determination of acid neutralizing capacity (alkalinity) by potentiometric titration and calculation of the carbonate hardness and CO <sub>2</sub> forms from measured values including the calculation of total mineralization | CZ_SOP_D06_02_072<br>(ČSN EN ISO 9963-1;<br>ČSN EN ISO 9963-2,<br>ČSN 75 7373,<br>SM 2320)     | Water, extracts                 | D                                     |
| 1.96 <sup>1</sup>                 | Determination of base neutralizing capacity (acidity) by potentiometric titration   | CZ_SOP_D06_02_073<br>(ČSN 75 7372)   | Water, extracts                 | D                                     |
| 1.97 <sup>1</sup>                 | Determination of turbidity by optical turbidimeter  | CZ_SOP_D06_02_074<br>(ČSN EN ISO 7027-1)   | Water, extracts                 | D                                     |
| 1.98 <sup>1</sup>                 | Determination of electrical conductivity by conductometer and calculation of salinity   | CZ_SOP_D06_02_075<br>(ČSN EN 27888;<br>SM 2520 B)  | Water, extracts, liquid samples | D                                     |
| 1.99 <sup>1</sup>                 | Determination of chemical oxygen demand using dichromate (COD <sub>Cr</sub> ) by photometry   | CZ_SOP_D06_02_076<br>(ČSN ISO 15705)   | Water, extracts                 | D                                     |
| 1.100                             | Reserved  |  |                                 |                                       |
| 1.101 <sup>1</sup>                | Determination of biochemical oxygen demand electrochemically after n days (BOD <sub>n</sub> ) by dilution method with allylthiourea addition  | CZ_SOP_D06_02_077<br>(ČSN EN ISO 5815-1;<br>SM 5210 B)   | Water, extracts                 | D                                     |
| 1.102 <sup>1</sup>                | Determination of biochemical oxygen demand electrochemically after n days (BOD <sub>n</sub> ) by method for undiluted samples   | CZ_SOP_D06_02_078<br>(ČSN EN 1899-2;<br>ISO 5815-2;<br>SM 5210 B)                              | Water, extracts                 | D                                     |
| 1.103 <sup>1</sup>                | Determination of colour by spectrophotometry  | CZ_SOP_D06_02_079<br>(ČSN EN ISO 7887)   | Water, extracts                 | D                                     |
| 1.104 <sup>1</sup>                | Determination of total phosphorus by discrete spectrophotometry and calculation of phosphorus as P <sub>2</sub> O <sub>5</sub> and PO <sub>4</sub> <sup>3-</sup> from measured values   | CZ_SOP_D06_02_080<br>(ČSN EN ISO 6878;<br>ČSN EN ISO 15681-1)                                  | Water, extracts                 | D                                     |
| 1.105                             | Reserved  |  |                                 |                                       |

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|-----------------------------------|---|---|--|---------------------------------------|
| 1.106 <sup>2</sup>                | Determination of chloride in absorption solution from emission sample of inorganic compounds of chlorine by potentiometric titration and calculation of hydrogen chloride from measured values                              | CZ_SOP_D06_07_082<br>(ČSN EN 1911)  | Absorption solutions from emission sampling                  | D                                     |
| 1.107 <sup>2</sup>                | Determination of fluoride in absorption solution from emission sample of inorganic compounds of fluorine after separation by distillation by direct potentiometry and calculation of hydrogen fluoride from measured values | CZ_SOP_D06_07_083<br>(ČSN 83 4752-3:1989)   | Absorption solutions from emission sampling                  | D                                     |
| 1.108                             | Reserved  |   |  |                                       |
| 1.109 <sup>2</sup>                | Determination of ammonia in absorption solution from emission sample by photometry after distillation   | CZ_SOP_D06_07_085<br>(ČSN 83 4728-4)  | Absorption solutions from emission sampling                  | D                                     |
| 1.110 <sup>1</sup>                | Determination of total solids by gravimetry   | CZ_SOP_D06_02_086<br>(ČSN 75 7346;<br>ČSN 757347;<br>ČSN EN 87;<br>SM 2540 B, C, D)             | Water  | D                                     |
| 1.111 <sup>2</sup>                | Determination of pH, temperature and electrical conductivity in extracts prepared by a bottom-up percolation test (under specific conditions)   | CZ_SOP_D06_07_087<br>(ČSN EN 14405;<br>ČSN ISO 10523;<br>ČSN 75 7342;<br>ČSN EN 27888)          | Solid samples  | D                                     |
| 1.112 <sup>1</sup>                | Determination of pH, temperature and electrical conductivity in extracts prepared by a two-stage batch test (under specific conditions)   | CZ_SOP_D06_01_088<br>(ČSN EN 12457-3;<br>ČSN ISO 10523;<br>ČSN 75 7342;<br>ČSN EN 27888)        | Solid samples  | D                                     |
| 1.113 <sup>1</sup>                | Determination of total cyanide by spectrophotometry and calculation of complex-forming cyanides from measured values  | CZ_SOP_D06_02_089.A<br>(ČSN 75 7415;<br>ČSN EN ISO 14403-2)                                     | Water, extracts, absorption solutions from emission sampling | A, D                                  |
| 1.114 <sup>1</sup>                | Determination of total cyanide by spectrophotometry and calculation of complex-forming cyanides from measured values  | CZ_SOP_D06_02_089.B<br>(ČSN 75 7415;<br>ČSN EN ISO 17380;<br>ČSN EN ISO 14403-2;<br>SM 4500 CN) | Solid samples, building materials, materials for building    | A, D                                  |

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|-----------------------------------|--|--|--|---------------------------------------|
| 1.115 <sup>1</sup>                | Determination of easily releasable cyanide (free cyanide) and cyanide dissociated by weak acid by spectrophotometry  | CZ_SOP_D06_02_090.A<br>(ČSN ISO 6703-2;<br>ČSN EN ISO 14403-2;<br>SM 4500 CN)                      | Water, extracts  | A, D                                  |
| 1.116 <sup>1</sup>                | Determination of easily releasable cyanide (free cyanide) and cyanide dissociated by weak acid by spectrophotometry  | CZ_SOP_D06_02_090.B<br>(ČSN 75 7415;<br>ČSN EN ISO 17380;<br>ČSN EN ISO 14403-2;<br>SM 4500 CN)    | Solid samples, building materials, materials for building  | A, D                                  |
| 1.117 <sup>1</sup>                | Determination of fluorides by electrochemical method (ISE)   | CZ_SOP_D06_02_091<br>(ČSN ISO 10359-1)   | Water, extracts  | D                                     |
| 1.118 <sup>1</sup>                | Determination of chemical oxygen demand using permanganate (COD <sub>Mn</sub> ) by titration   | CZ_SOP_D06_02_092<br>(ČSN EN ISO 8467)   | Water, extracts  | D                                     |
| 1.119 <sup>1</sup>                | Determination of bound nitrogen (TNb), following oxidation to nitrogen oxides by chemiluminescent detection  | CZ_SOP_D06_02_094.A<br>(ČSN EN ISO 20236)  | Water, extracts  | D                                     |
| 1.120                             | Reserved   |  |  |                                       |
| 1.121 <sup>1</sup>                | Qualitative determination of asbestos fibre by polarization microscope   | CZ_SOP_D06_02_095<br>(NIOSH 9002;<br>VDI 3866 – Blatt/Part 4;<br>HSG 248 – Appendix 2;<br>AS 4964) | Solid samples,<br>(except liquid waste, biowaste),<br>building materials, materials for building | D                                     |
| 1.122 <sup>1</sup>                | Determination of Mercury by Fluorescence Spectrometry  | CZ_SOP_D06_02_096<br>(US EPA Method 245.7;<br>ČSN EN ISO 17852)                                    | Water, extracts  | D                                     |
| 1.123 <sup>1</sup>                | Determination of Mercury by Fluorescence Spectrometry  | CZ_SOP_D06_02_096<br>(ČSN EN ISO 17852;<br>ISO 16772:2004)   | Solid samples, building materials, materials for building  | D                                     |
| 1.124                             | Reserved   |  |  |                                       |
| 1.125 <sup>1</sup>                | Determination of Mercury by Fluorescence Spectrometry  | CZ_SOP_D06_02_096<br>(ČSN EN ISO 17852;<br>ČSN EN 13211)   | Emission, imission   | D                                     |
| 1.126 – 1.127                     | Reserved   |  |  |                                       |
| 1.128 <sup>1</sup>                | Determination of dissolved bromate, chlorate and chlorite by ion liquid chromatography method and calculation of the sum of chlorate and chlorite from measured values | CZ_SOP_D06_02_098<br>(ČSN EN ISO 15061;<br>ČSN EN ISO 10304-4;<br>US EPA Method 300.1)             | Water, extracts  | A, B, D                               |

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|-----------------------------------|--|---|---------------------------------|---------------------------------------|
| 1.129 <sup>1</sup>                | Determination of chloride by discrete spectrophotometry  | CZ_SOP_D06_02_099<br>(US EPA Method 325.1;<br>SM 4500-Cl <sup>-</sup> )                   | Water, extracts                 | D                                     |
| 1.130 <sup>1</sup>                | Determination of extractive substances by gravimetry   | CZ_SOP_D06_02_100<br>(ČSN 75 7508;<br>SM 5520B)   | Water                           | D                                     |
| 1.131 <sup>2</sup>                | Determination of reactive and non-labile aluminium by continuous flow analysis (CFA) spectrophotometrically and calculation of labile aluminium from measured values | CZ_SOP_D06_07_101<br>(Instruction of the SKALAR company)                                  | Drinking, surface water         | A, D                                  |
| 1.132 <sup>2</sup>                | Determination of total nitrogen by modified Kjeldahl method by spectrometry  | CZ_SOP_D06_07_102<br>(ČSN ISO 11261)  | Solid samples                   | A, D                                  |
| 1.133*<br>1,2,3,4,5,6,7,<br>8,9   | Field measurement of oxidation-reduction potential (ORP) by potentiometry  | CZ_SOP_D06_01_103<br>(ČSN 75 7367)  | Water                           | D                                     |
| 1.134 <sup>1</sup>                | Determination of grease and oils by gravimetry (extraction after evaporation)  | CZ_SOP_D06_02_104<br>(ČSN 75 7509)  | Water                           | D                                     |
| 1.135 <sup>1</sup>                | Determination of pH by potentiometry   | CZ_SOP_D06_02_105<br>(ČSN ISO 10523;<br>US EPA Method 150.1;<br>SM 4500-H <sup>+</sup> B) | Water, extracts, liquid samples | D                                     |
| 1.136                             | Reserved   |   |                                 |                                       |
| 1.137 <sup>2</sup>                | Determination of total nitrogen by modified Kjeldahl method by spectrophotometry   | CZ_SOP_D06_07_107<br>(ČSN EN 25663;<br>ČSN ISO 7150-1;<br>SFS 5505)                       | Water, extracts                 | D                                     |
| 1.138 <sup>1</sup>                | Determination of settleable solids by volumetry  | CZ_SOP_D06_02_108<br>(SM 2540 F)  | Water, extracts                 | A, D                                  |
| 1.139 <sup>1</sup>                | Determination of dissolved silicates by discrete photometry and calculation of H <sub>2</sub> SiO <sub>3</sub> and total mineralization from measured values         | CZ_SOP_D06_02_109<br>(ČSN EN ISO 16264;<br>US EPA Method 370.1)                           | Water, extracts                 | D                                     |
| 1.140 <sup>1</sup>                | Determination of Chlorophyll by spectrophotometry  | CZ_SOP_D06_02_110<br>(SM 10200 H)   | Surface water                   | A, D                                  |
| 1.141                             | Reserved   |   |                                 |                                       |
| 1.142 <sup>2</sup>                | Determination of phosphorus soluble in sodium hydrogen carbonate solution spectrophotometrically   | CZ_SOP_D06_07_112<br>(ČSN ISO 11263)  | Solid samples                   | D                                     |

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|-----------------------------------|---|---|--|---------------------------------------|
| 1.143 <sup>2</sup>                | Determination of pH electrochemically in the suspension in water, KCl, CaCl <sub>2</sub> , BaCl <sub>2</sub>  | CZ_SOP_D06_07_113<br>(ČSN EN ISO 10390;<br>ČSN EN 12176:1999;<br>ČSN EN 13037;<br>ČSN 46 5735;<br>ÖNORM L 1086-1;<br>US EPA Method 9045D;<br>US EPA Method 9040C) | Solid samples, building materials, materials for building      | D                                     |
| 1.144 <sup>2</sup>                | Determination of formaldehyde by spectrophotometry  | CZ_SOP_D06_07_114<br>(Chemical and physical methods of water analysis, SNTL Prague 1989)  | Water, extracts  | D                                     |
| 1.145 <sup>2</sup>                | Determination of non-degradable impurities, unwanted impurities and impurities gravimetrically  | CZ_SOP_D06_07_115<br>(ČSN 46 5735;<br>Decree No. 273/2021 Coll.;<br>Uniform working procedures UKZÚZ – Fertilizer testing – 20231.1)                              | Waste, composts  | D                                     |
| 1.146 <sup>2</sup>                | Determination of iron (II) by spectrophotometry   | CZ_SOP_D06_07_116<br>(ČSN ISO 6332)   | Water, extracts  | A, D                                  |
| 1.147 <sup>2</sup>                | Determination of total carbon (TC), total organic carbon (TOC) by the combustion method with IR detection and calculation of total inorganic carbon (TIC), carbonates and organic matter from measured values | CZ_SOP_D06_07_117<br>(Instruction of Elementar company;<br>ČSN ISO 10694;<br>ČSN EN 13137:2002;<br>ČSN EN 15936)  | Solid samples, building materials, materials for building      | D                                     |
| 1.148 <sup>2</sup>                | Determination of permeability by falling head   | CZ_SOP_D06_07_118<br>(ČSN EN ISO 17892-11, chap. 5.2.2.3)   | Soil   | D                                     |
| 1.149 <sup>1</sup>                | Determination of aggressive carbon dioxide by the Heyer's method using calculation from alkalinity  | CZ_SOP_D06_02_119<br>(ČSN 83 0530-14:2000)  | Water  | D                                     |
| 1.150 <sup>2</sup>                | Determination of grain size by the combined method of the suspension density and sieve analyses and calculation of permeability from measured values according to USBSC                                       | CZ_SOP_D06_07_120<br>(ČSN EN ISO 17892-4;<br>ČSN EN 933-1;<br>ČSN EN 933-2;<br>BS ISO 11277;<br>pokyn TOM 23/1)   | Solid samples with grain sizes below 63 mm, sludges, sediments | D                                     |



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|-----------------------------------|--|---|--|---------------------------------------|
| 1.151 <sup>2</sup>                | Determination of total carbon, total sulfur, and hydrogen by combustion method with IR detection, determination of total nitrogen by combustion method with TCD detection and calculation of oxygen from measured values | CZ_SOP_D06_07_121.A<br>(metodika firmy LECO;<br>ČSN ISO 29541;<br>ČSN EN ISO 16994;<br>ČSN EN ISO 16948;<br>ČSN ISO 19579;<br>ČSN EN 15408;<br>ČSN ISO 10694;<br>ČSN EN ISO 21663)  | Solid samples, waste, sludge, lubricants, feed, vegetable materials, digestates, solid fossil fuels, solid biofuels, solid recovered fuels, building materials, materials for building | A, D                                  |
| 1.152 <sup>2</sup>                | Determination of carbon, sulfur and hydrogen by combustion method with IR detection and determination of nitrogen by combustion method with TCD detection and calculation of oxygen from measured values                 | CZ_SOP_D06_07_121.B<br>(Instruction of the LECO)  | Oil, liquid fuels, combustible liquid, and solid wastes  | A, D                                  |
| 1.153 <sup>1</sup>                | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and calculation of trivalent chromium from measured values  | CZ_SOP_D06_02_122<br>(US EPA Method 7199;<br>SM 3500-Cr)  | Water, extracts  | D                                     |
| 1.154 <sup>1</sup>                | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and calculation of trivalent chromium from measured values  | CZ_SOP_D06_02_122<br>(ČSN EN ISO 15192;<br>US EPA Method 3060A)   | Solid samples  | D                                     |
| 1.155 <sup>2</sup>                | Determination of particle size and distribution using laser diffraction  | CZ_SOP_D06_07_123<br>(ISO 13320)  | Emulsions, suspensions, dispersion liquids, waters – waste, surface, raw   | D                                     |
| 1.156                             | Reserved   |   |  |                                       |
| 1.157 <sup>2</sup>                | Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor from measured values  | CZ_SOP_D06_07_124.A<br>(ČSN ISO 1928;<br>ČSN EN ISO 18125;<br>ČSN EN ISO 21654;<br>ČSN EN 15170;<br>ČSN DIN 51900-1;<br>ČSN DIN 51900-2;<br>ČSN DIN 51900-3;<br>ČSN P CEN/TS 16023) | Solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge, combustible building materials   | A, D                                  |
| 1.158 <sup>2</sup>                | Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor from measured values  | CZ_SOP_D06_07_124.B<br>(ČSN DIN 51900-1,<br>ČSN DIN 51900-2,<br>ČSN DIN 51900-3)  | Oils, liquid fuels, combustible liquid, and solid wastes   | D                                     |

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|-----------------------------------|--|--|---|---------------------------------------|
| 1.159 <sup>1,2</sup>              | Determination of total bromine, chlorine, fluorine, and sulphur by calculation from the measured values of bromide, chloride, fluoride, and sulphate by IC method after burning the sample | CZ_SOP_D06_07_124.C<br>(ČSN EN ISO 16994,<br>ČSN EN 15408,<br>ČSN EN 14582)  | Solid fossil fuels,<br>solid biofuels, solid recovered<br>fuels, waste, sludge,<br>combustible building materials | A, B, D                               |
| 1.160 <sup>1,2</sup>              | Determination of total bromine, chlorine, fluorine, and sulphur by calculation from the measured values of bromide, chloride, fluoride and sulphate by IC method after burning the sample  | CZ_SOP_D06_07_124.D<br>(ČSN DIN 51900-1;<br>ČSN DIN 51900-2;<br>ČSN DIN 51900-3)   | Oils, liquid fuels, combustible<br>liquid and solid wastes  | D                                     |
| 1.161 <sup>2</sup>                | Determination of laboratory compacted bulk density (LCBD)  | CZ_SOP_D06_07_125<br>(ČSN EN 13040)  | Sludge, composts, soils<br>meliorants and growth<br>stimulants  | D                                     |
| 1.162 <sup>2</sup>                | Determination of electrical conductivity   | CZ_SOP_D06_07_126<br>(ČSN EN 13038;<br>ČSN ISO 11265;<br>ČSN P CEN/TS 15937)   | Sludge, composts, soils, soils<br>meliorants and growth<br>stimulants, modified bio waste                         | D                                     |
| 1.163 <sup>1</sup>                | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and calculation of trivalent chromium from measured values                                    | CZ_SOP_D06_02_127<br>(ISO 16740;<br>US EPA Method 425)   | Emission, imission  | A, D                                  |
| 1.164 <sup>1</sup>                | Determination of nitrogen dioxide and sulphur dioxide in passive samplers by ion chromatography method and results recalculation to the volume of air                                      | CZ_SOP_D06_02_128<br>(Instruction of the Fondazione<br>Salvatore Maugeri Institut;<br>ČSN EN ISO 10304-1;<br>ČSN EN ISO 10304-3) | Emission, imission  | A, B, D                               |
| 1.165 <sup>1</sup>                | Determination of sulphite by ion chromatography method   | CZ_SOP_D06_02_129<br>(ČSN EN ISO 10304-3)  | Water, extracts   | A, B, D                               |
| 1.166 <sup>2</sup>                | Determination of volatile matter by gravimetry and calculation of fixed carbon from the measured values  | CZ_SOP_D06_07_130<br>(ČSN ISO 562;<br>ČSN ISO 5071-1;<br>ČSN EN ISO 18123;<br>ČSN EN ISO 22167)                                  | Solid fossil fuels,<br>solid biofuels,<br>solid recovered fuels   | D                                     |
| 1.167 <sup>2</sup>                | Determination of sulphite after distillation by titration  | CZ_SOP_D06_07_131<br>(M. Horáková et al.: Chemical<br>and physical methods of water<br>analyses)                                 | Water, extracts   | D                                     |
| 1.168 <sup>2</sup>                | Determination of respiratory activity (AT <sub>4</sub> ) using respirometer  | CZ_SOP_D06_07_132<br>(ÖNORM S 2027-4)  | Wastes, sludges, composts,<br>soils   | D                                     |

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|-----------------------------------|--|---|---------------------------------|---------------------------------------|
| 1.169*<br>1,2,4,6,7,8,9           | Field determination of ozone using HACH sets   | CZ_SOP_D06_01_133<br>(Method 8311 HACH Company, USA)  | Drinking water,<br>pool water   | D                                     |
| 1.170 <sup>1</sup>                | Determination of fluoride, chloride, and sulphate in absorption solution from emission sampling by ion chromatographic method and calculation of hydrogen fluoride, hydrogen chloride and sulphur dioxide from measured values | CZ_SOP_D06_02_134<br>(ČSN EN 1911;<br>STN ISO 15713;<br>ČSN EN 14791;<br>ČSN EN ISO 10304-1)                            | Emission                        | D                                     |
| 1.171 <sup>1</sup>                | Determination of non-polar extractable compounds by UV spectrometry  | CZ_SOP_D06_02_135,<br>(ČSN 83 0540-4:1998;<br>STN 83 0540-4)  | Water, extracts                 | D                                     |
| 1.172 <sup>1</sup>                | Determination of non-polar extractable compounds by UV spectrometry  | CZ_SOP_D06_02_135,<br>(ČSN 83 0540-4:1998;<br>STN 83 0540-4)  | Solid samples                   | D                                     |
| 1.173 <sup>1</sup>                | Determination of total dust concentration and respirable dust fraction by gravimetry and results recalculation to the volume of air  | CZ_SOP_D06_02_136<br>(ČSN EN 481;<br>ČSN EN 482;<br>ČSN EN 689+AC;<br>NIOSH 0500;<br>NIOSH 0600;<br>GR No.361/2007 Sb.) | Working environment             | D                                     |
| 1.174 <sup>2</sup>                | Determination of SiO <sub>2</sub> in silicate materials after decomposition by gravimetry  | CZ_SOP_D06_07_137<br>(ČSN 72 0105-1)  | Solid samples                   | D                                     |
| 1.175 <sup>2</sup>                | Determination of P <sub>2</sub> O <sub>5</sub> in silicate materials after decomposition by spectrophotometry  | CZ_SOP_D06_07_138<br>(ČSN 72 0116-1)  | Solid samples                   | D                                     |
| 1.176 <sup>2</sup>                | Determination of total sulfur in silicate materials after decomposition by gravimetry  | CZ_SOP_D06_07_139<br>(ČSN 72 0118)  | Solid samples                   | D                                     |
| 1.177                             | Reserved   |   |                                 |                                       |
| 1.178*<br>1,2,5                   | Determination of CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> S by Geotech Company gas analyzer and calculation of N <sub>2</sub> from measured values  | CZ_SOP_D06_01_141<br>(BIOGAS 5000 Analyzer Manual)  | Gases                           | A, B, D                               |
| 1.179                             | Reserved   |   |                                 |                                       |
| 1.180 <sup>2</sup>                | Determination of total inorganic fluorine after separation by distillation by direct potentiometry   | CZ_SOP_D06_07_143,<br>(ČSN ISO 10359-2;<br>ČSN 83 4752-3:1989)  | Water, extracts, liquid samples | D                                     |

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|-----------------------------|--|---|---|---------------------------------|
| 1.181 <sup>2</sup>          | Determination of total inorganic fluorine after separation by distillation by direct potentiometry   | CZ_SOP_D06_07_143<br>(ČSN ISO 10359-2;<br>ČSN 83 4752-3:1989)   | Solid samples   | A, D                            |
| 1.182                       | Reserved   |   |   |                                 |
| 1.183 <sup>1</sup>          | Determination of the numerical concentration of asbestos and mineral fibers by a microscope with phase contrast  | CZ_SOP_D06_02_145<br>(ISO 8672;<br>WHO Determination of airborne fibre number concentration,<br>NIOSH 7400;<br>OSHA ID-160;<br>MTA/MA-051/A04)            | Outdoor and indoor air, working environment – exposed filters | D                               |
| <b>2</b>                    | <b>Organic Chemistry</b>   |   |   |                                 |
| 2.1 <sup>1</sup>            | Determination of extractable compounds in the range of hydrocarbons C10 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection | CZ_SOP_D06_03_150<br>(ČSN EN 14039;<br>ČSN EN ISO 16703,<br>ČSN P CEN ISO/TS 16558-2;<br>US EPA Method 8015;<br>US EPA Method 3550;<br>TNRCC Method 1006) | Solid samples   | A, D                            |
| 2.2 <sup>1</sup>            | Determination of extractable compounds in the range of hydrocarbons C10 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection | CZ_SOP_D06_03_151<br>(ČSN EN ISO 9377-2;<br>US EPA Method 8015;<br>US EPA Method 3510;<br>TNRCC Method 1006)  | Water, extracts   | A, D                            |
| 2.3 <sup>1</sup>            | 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,<br>(TNRCC Method 1006;<br>TNRCC Method 1005)   | Water, extracts, liquid samples                               | A, B, D                         |
| 2.4 <sup>1</sup>            | 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,<br>(TNRCC Method 1006;<br>TNRCC Method 1005)   | Solid samples   | A, B, D                         |

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|-----------------------------------|---|---|--|---------------------------------------|
| 2.5 <sup>1</sup>                  | Determination of volatile organic compounds 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<br>(ČSN P CEN/TS 13649;<br>NIOSH 1003; NIOSH 1005;<br>NIOSH 1007; NIOSH 1022;<br>NIOSH 1400; NIOSH 1450;<br>NIOSH 1457; NIOSH 1500;<br>NIOSH 1501; NIOSH 1602;<br>NIOSH 1609; NIOSH 2542) | Solid sorbents                             | A, B, D                               |
| 2.6 <sup>1</sup>                  | Determination of aldehydes and ketones by liquid chromatography with MS/MS detection  | CZ_SOP_D06_03_154<br>(US EPA Method TO11;<br>ISO 16000-3)   | Working environment,<br>emission, imission | B, D                                  |
| 2.7 <sup>1</sup>                  | Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values  | CZ_SOP_D06_03_155<br>(US EPA Method 624;<br>US EPA Method 5021A;<br>US EPA Method 8260;<br>US EPA Method 8015;<br>ČSN EN ISO 10301;<br>MADEP 2004, rev. 1.1;<br>ČSN ISO 11423;<br>ČSN EN ISO 15680)         | Water, extracts                            | A, B, D                               |
| 2.8 <sup>1</sup>                  | Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values  | CZ_SOP_D06_03_155,<br>(US EPA Method 8260;<br>US EPA Method 5021A;<br>US EPA Method 5021;<br>US EPA Method 8015;<br>ČSN EN ISO 22155;<br>ČSN EN ISO 15009;<br>ČSN EN ISO 16558-1;<br>MADEP 2004, rev. 1.1.) | Solid samples                              | A, B, D                               |
| 2.9 <sup>1</sup>                  | Determination of volatile organic compounds by gas chromatography method with detection FID and ECD and calculation of volatile organic compounds sums from measured values   | CZ_SOP_D06_03_156,<br>(US EPA Method 601;<br>US EPA Method 8260;<br>US EPA Method 8015;<br>RBCA Petroleum Hydrocarbon Methods;<br>ČSN EN ISO 11423;<br>ČSN EN ISO 15680)                                    | Water, extracts                            | A, B, D                               |

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|-----------------------------|---|---|---|---------------------------------|
| 2.10 <sup>1</sup>           | Determination of volatile organic compounds by gas chromatography method with detection FID and ECD and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_156,<br>(US EPA Method 8260;<br>US EPA Method 8015;<br>ČSN EN ISO 22155;<br>ČSN EN ISO 15009;<br>ČSN EN ISO 16558-1;<br>RBCA Petroleum Hydrocarbon Methods) | Solid samples   | A, B, D                         |
| 2.11 <sup>1</sup>           | Determination of organic contaminants by gas chromatography method with MS detection (SPIMFAB) and calculation of organic contaminants sums from measured values            | CZ_SOP_D06_03_157,<br>(SPIMFAB)   | Water, extracts   | A, B, D                         |
| 2.12 <sup>1</sup>           | Determination of organic contaminants by gas chromatography method with MS detection (SPIMFAB) and calculation of organic contaminants sums from measured values            | CZ_SOP_D06_03_157,<br>(SPIMFAB)   | Waste (solid waste, biowaste), sediments, soil, rocks   | A, B, D                         |
| 2.13 <sup>1</sup>           | Determination of phenol and chlorinated phenols by gas chromatography method with MS detection and calculation of phenol and chlorinated phenols sums from measured values  | CZ_SOP_D06_03_158,<br>(US EPA Method 8041;<br>US EPA Method 3500,<br>ČSN EN 12673)  | Water   | A, D                            |
| 2.14 <sup>1</sup>           | Determination of phenol and chlorinated phenols by gas chromatography method with MS detection and calculation of phenol and chlorinated phenols sums from measured values  | CZ_SOP_D06_03_158,<br>(US EPA Method 8041;<br>US EPA Method 3500;<br>DIN ISO 14154)   | Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks | A, D                            |
| 2.15 <sup>1</sup>           | Determination of cannabinoids by gas chromatography method with MS detection and calculation of sums  | CZ_SOP_D06_03_204   | Cannabis plants, hemp extracts, hemp products   | A, D                            |
| 2.16 <sup>1</sup>           | Determination of phthalates by gas chromatography method with MS detection and calculation of phthalates sums from measured values  | CZ_SOP_D06_03_159,<br>(US EPA Method 8061A)   | Water, extracts   | A, B, D                         |
| 2.17 <sup>1</sup>           | Determination of phthalates by gas chromatography method with MS detection and calculation of phthalates sums from measured values  | CZ_SOP_D06_03_159,<br>(US EPA Method 8061A;<br>CPSC-CH-C1001-09.3)  | Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks | A, B, D                         |

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|-----------------------------------|--|--|---|---------------------------------------|
| 2.18 <sup>1</sup>                 | Determination of phenols and cresols by gas chromatography method with MS detection and calculation of phenols and cresols sums from measured values                                       | CZ_SOP_D06_03_160,<br>(US EPA Method 8041A;<br>US EPA Method 3500)   | Water, extracts   | A, B, D                               |
| 2.19 <sup>1</sup>                 | Determination of phenols and cresols by gas chromatography method with MS detection and calculation of phenols and cresols sums from measured values                                       | CZ_SOP_D06_03_160,<br>(US EPA Method 8041A;<br>US EPA Method 3500)   | Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks | A, B, D                               |
| 2.20 <sup>1</sup>                 | Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values      | CZ_SOP_D06_03_161<br>(US EPA Method 8270D;<br>US EPA Method 8082A;<br>ČSN EN ISO 6468;<br>US EPA Method 8000D)                   | Water, extracts   | A, B, D                               |
| 2.21 <sup>1</sup>                 | Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values      | CZ_SOP_D06_03_161<br>(US EPA Method 8270D;<br>US EPA Method 8082A;<br>ČSN EN 17503;<br>ISO 18287;<br>ISO 18475;<br>ČSN EN 17322) | Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks | A, B, D                               |
| 2.22 <sup>1</sup>                 | Determination of polycyclic aromatic hydrocarbons by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values | CZ_SOP_D06_03_162<br>(US EPA Method 550)   | Drinking, table, and infant water   | A, B, D                               |
| 2.23 <sup>1</sup>                 | Determination of polycyclic aromatic hydrocarbons by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values | CZ_SOP_D06_03_163,<br>(US EPA Method 610;<br>ČSN EN ISO 17993)   | Water, extracts   | A, B, D                               |
| 2.24 <sup>1</sup>                 | Determination of polycyclic aromatic hydrocarbons by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values | CZ_SOP_D06_03_163,<br>(US EPA Method 610;<br>US EPA Method 3550;<br>ČSN EN 17503)  | Solid samples   | A, B, D                               |

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|-----------------------------------|---|---|---|---------------------------------------|
| 2.25 <sup>1</sup>                 | Determination of glycols by gas chromatography method with MS detection   | CZ_SOP_D06_03_164   | Water, cooling liquids, anti-freeze fluid       | A, B, D                               |
| 2.26 <sup>1</sup>                 | Determination of polycyclic aromatic hydrocarbons 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<br>(ISO 11338-2)  | Emission, imission                              | A, B, D                               |
| 2.27 <sup>1</sup>                 | Determination of polychlorinated biphenyls by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values   | CZ_SOP_D06_03_166<br>(DIN 38407-3;<br>US EPA Method 8082)                     | Water, extracts                                 | A, B, D                               |
| 2.28 <sup>1</sup>                 | Determination of polychlorinated biphenyls by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values   | CZ_SOP_D06_03_166<br>(US EPA Method 8082;<br>ISO 18475;<br>ČSN EN 17322)      | Solid samples, sealing materials                | A, B, D                               |
| 2.29 <sup>1</sup>                 | Determination of alkylphenols and alkylphenol ethoxylates 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<br>(European Standard BT WI<br>CSS99040)                    | Sediments, soils, rocks                         | A, B, D                               |
| 2.30 <sup>1</sup>                 | Determination of polychlorinated biphenyls congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values   | CZ_SOP_D06_03_168<br>(ČSN EN 12766-1;<br>ČSN EN 61619)                        | Oil hydrocarbons, used oils, insulating liquids | A, B, D                               |
| 2.31 <sup>1</sup>                 | Determination of organochlorine pesticides and other halogen compounds 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<br>(ČSN EN ISO 6468;<br>US EPA Method 8081;<br>DIN 38407-3) | Water, extracts                                 | A, B, D                               |



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|-----------------------------------|---|---|--|---------------------------------------|
| 2.32 <sup>1</sup>                 | Determination of organochlorine pesticides and other halogen compounds 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<br>(US EPA Method 8081;<br>ISO 18475)       | Solid samples  | A, B, D                               |
| 2.33 <sup>1</sup>                 | Determination of perchlorates by liquid chromatography with MS/MS detection   | CZ_SOP_D06_03_170.A<br>(US EPA Method 6850)                   | Drinking water   | A, B, D                               |
| 2.34 <sup>1</sup>                 | Determination of perchlorates by liquid chromatography with MS/MS detection   | CZ_SOP_D06_03_170.B<br>(US EPA Method 6850)                   | Sediments, sludges, soils, rocks                             | A, B, D                               |
| 2.35 <sup>3</sup>                 | Determination of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofuranes in emissions by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values                             | CZ_SOP_D06_06_170<br>(US EPA Method 23;<br>US EPA Method 23A) | Emission   | D                                     |
| 2.36 <sup>3</sup>                 | Determination of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofuranes 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 Method TO-9A)                    | Imission   | D                                     |
| 2.37 <sup>3</sup>                 | Determination of coplanar polychlorinated biphenyls 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)                             | Emission, imission   | D                                     |
| 2.38 <sup>3</sup>                 | Determination of polychlorinated biphenyls by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of PCB sums and TEQ parameter from measured values  | CZ_SOP_D06_06_173,<br>(US EPA Method 1668A;<br>ČSN EN 16190)  | Water  | A, B, D                               |
| 2.39 <sup>3</sup>                 | Determination of polychlorinated biphenyls by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of PCB sums and TEQ parameter from measured values  | CZ_SOP_D06_06_173,<br>(US EPA Method 1668A;<br>ČSN EN 16190)  | Solid samples,<br>building materials, materials for building | A, B, D                               |

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|-----------------------------------|---|--|---|---------------------------------------|
| 2.40 <sup>3</sup>                 | Determination of polychlorinated biphenyls by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of PCB sums and TEQ parameter from measured values                      | CZ_SOP_D06_06_173,<br>(US EPA Method 1668A;<br>ČSN EN 16190,<br>Commission Regulation (EU)<br>No. 589/2014;<br>Commission Regulation (EU)<br>No. 709/2014) | Biological materials, vegetable materials, animal materials | A, B, D                               |
| 2.41 <sup>3</sup>                 | Determination of polychlorinated biphenyls by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of PCB sums and TEQ parameter from measured values                      | CZ_SOP_D06_06_173,<br>(US EPA Method 1668A;<br>ČSN EN 16190;<br>Commission Regulation (EU)<br>No. 589/2014;<br>Commission Regulation (EU)<br>No. 709/2014) | SPMD, food, feed, biotic materials                          | A, B, D                               |
| 2.42 <sup>3</sup>                 | Determination of polychlorinated dibenzo-p-dioxins and dibenzofuranes 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;<br>ČSN EN 1948-3)   | Emission  | D                                     |
| 2.43 <sup>3</sup>                 | Determination of tetra- to octa-chlorinated dioxins and furanes by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of TEQ parameters from measured values             | CZ_SOP_D06_06_175,<br>(US EPA Method 1613B;<br>ČSN EN 16190)   | Water   | A, B, D                               |
| 2.44 <sup>3</sup>                 | Determination of tetra- to octa-chlorinated dioxins and furanes by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of TEQ parameters from measured values             | CZ_SOP_D06_06_175,<br>(US EPA Method 1613 B;<br>ČSN EN 16190)  | Solid samples, building materials, materials for building   | A, B, D                               |
| 2.45 <sup>3</sup>                 | Determination of tetra- to octa-chlorinated dioxins and furanes by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of TEQ parameters from measured values             | CZ_SOP_D06_06_175,<br>(US EPA Method 1613B,<br>ČSN EN 16190,<br>Commission Regulation (EU)<br>No. 589/2014;<br>Commission Regulation (EU)<br>No. 709/2014) | Biological materials, vegetable materials, animal materials | A, B, D                               |

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|-----------------------------------|---|---|---|---------------------------------------|
| 2.46 <sup>3</sup>                 | Determination of tetra- to octa-chlorinated dioxins and furanes by isotope dilution method using HRGC-HRMS or HRGC-MS/MS and calculation of TEQ parameters from measured values         | CZ_SOP_D06_06_175<br>(US EPA Method 1613B;<br>ČSN EN 16190,<br>Commission Regulation (EU)<br>No. 589/2014;<br>Commission Regulation (EU)<br>No. 709/2014) | SPMD, food, feed, biotic materials  | A, B, D                               |
| 2.47 <sup>3</sup>                 | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) using HRGC-HRMS and calculation of TEQ parameters from measured values                  | CZ_SOP_D06_06_176,<br>(US EPA Method 8290A)   | Water   | D                                     |
| 2.48 <sup>3</sup>                 | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) using HRGC-HRMS and calculation of TEQ parameters from measured values                  | CZ_SOP_D06_06_176,<br>(US EPA Method 8290A)   | Solid samples   | D                                     |
| 2.49 <sup>3</sup>                 | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) using HRGC-HRMS and calculation of TEQ parameters from measured values                  | CZ_SOP_D06_06_176,<br>(US EPA Method 8290A)   | Biological materials  | D                                     |
| 2.50 <sup>3</sup>                 | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) using HRGC-HRMS and calculation of TEQ parameters from measured values                  | CZ_SOP_D06_06_176,<br>(US EPA Method 8290A)   | Food, feed, biotic materials  | D                                     |
| 2.51 <sup>3</sup>                 | Determination of selected brominated flammable retardants (BFR) by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retardants sums from measured values | CZ_SOP_D06_06_177,<br>(US EPA Method 1614)  | Water   | A, B, D                               |
| 2.52 <sup>3</sup>                 | Determination of selected brominated flammable retardants (BFR) by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retardants sums from measured values | CZ_SOP_D06_06_177,<br>(US EPA Method 1614;<br>ČSN EN 16377;<br>ČSN EN ISO 22032)  | Solid samples, building materials, materials for building, emissions, imissions | A, B, D                               |

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|-----------------------------------|---|---|---|---------------------------------------|
| 2.53 <sup>3</sup>                 | Determination of selected brominated flammable retardants (BFR) by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retardants sums from measured values                 | CZ_SOP_D06_06_177,<br>(US EPA Method 1614)  | Biological materials, vegetable materials, animal materials | A, B, D                               |
| 2.54 <sup>3</sup>                 | Determination of selected brominated flammable retardants (BFR) by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retardants sums from measured values                 | CZ_SOP_D06_06_177,<br>(US EPA Method 1614)  | SPMD, food, feed, biotic materials                          | A, B, D                               |
| 2.55 <sup>1</sup>                 | Determination of alkylphenols and alkylphenol ethoxylates 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<br>(ČSN EN ISO 18857-2)   | Water, extracts   | A, B, D                               |
| 2.56 <sup>3</sup>                 | Determination of PCB by isotope dilution method using HRGC-HRMS and calculation of PCB sums from measured values  | CZ_SOP_D06_06_179<br>(ČSN EN 1948-4;<br>US EPA Method TO-4A)                                      | Emission, imission, working environment                     | D                                     |
| 2.57 <sup>3</sup>                 | Determination of polycyclic aromatic hydrocarbons by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values                                     | CZ_SOP_D06_06_180<br>(US EPA Method 429;<br>ISO 11338;<br>US EPA Method 3540)                     | Solid samples, building materials, materials for building   | A, B, D                               |
| 2.58 <sup>3</sup>                 | Determination of polycyclic aromatic hydrocarbons by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values                                     | CZ_SOP_D06_06_180,<br>(US EPA Method 429;<br>ISO 11338;<br>US EPA Method TO-13A;<br>ČSN EN 15549) | Emission, imission, working environment                     | A, B, D                               |
| 2.59 <sup>3</sup>                 | Determination of polycyclic aromatic hydrocarbons by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values                                     | CZ_SOP_D06_06_180,<br>(US EPA Method 429;<br>STN EN 16619)  | Biological materials, vegetable materials, animal materials | A, B, D                               |
| 2.60 <sup>3</sup>                 | Determination of polycyclic aromatic hydrocarbons by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values                                     | CZ_SOP_D06_06_180,<br>(US EPA Method 429;<br>STN EN 16619)  | SPMD, food, feed, biotic materials                          | A, B, D                               |

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|-----------------------------------|---|--|--|---------------------------------------|
| 2.61 <sup>3</sup>                 | Determination of polycyclic aromatic hydrocarbons by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values   | CZ_SOP_D06_06_180,<br>(US EPA Method 429;<br>ISO 11338;<br>IP 346)                     | Oils   | A, B, D                               |
| 2.62 <sup>1</sup>                 | Determination of semi-volatile organic compounds by gas chromatography method with MS detection and calculation of semi-volatile organic compounds sums from measured values  | CZ_SOP_D06_03_181<br>(US EPA Method 429;<br>US EPA Method 1668;<br>US EPA Method 3550) | Sediments, soils, rocks  | A, B, D                               |
| 2.63 <sup>1</sup>                 | Determination of acidic herbicides, drug residues and other pollutants 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<br>(DIN 38407-35)  | Water  | A, B, D                               |
| 2.64 <sup>1</sup>                 | Determination of acidic herbicides and drug residues by liquid chromatography method with MS/MS detection   | CZ_SOP_D06_03_182.B<br>(ČSN EN 15637;<br>US EPA Method 1694)                           | Sediments, sludges, soils, rocks   | A, B, D                               |
| 2.65 <sup>1</sup>                 | Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values  | CZ_SOP_D06_03_183.A<br>(US EPA Method 535,<br>US EPA Method 1694)                      | Water  | A, B, D                               |
| 2.66 <sup>1</sup>                 | Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticides metabolites, drug residues and other pollutants sums from measured values | CZ_SOP_D06_03_183.B<br>(ČSN EN 15637;<br>US EPA Method 1694)                           | Sediments, sludges, soils, rocks, building materials, materials for building | A, B, D                               |
| 2.67 <sup>1</sup>                 | Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticides metabolites, drug residues and other pollutants sums from measured values | CZ_SOP_D06_03_183.C<br>(ČSN EN 15662)  | Vegetable materials, animal materials  | A, B, D                               |

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|-----------------------------------|--|---|----------------------------------|---------------------------------------|
| 2.68 <sup>1</sup>                 | Determination of pesticides by gas chromatography method with MS or MS/MS detection and calculation of pesticides sums from measured values  | CZ_SOP_D06_03_184<br>(US EPA Method 8141B;<br>US EPA Method 3535A;<br>ČSN EN 12918)   | Water                            | A, B, D                               |
| 2.69 <sup>1</sup>                 | Determination of pesticides and pesticides metabolites 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.A<br>(ČSN ISO 21458)  | Water                            | A, B, D                               |
| 2.70 <sup>1</sup>                 | Determination of pesticides and pesticides metabolites by derivatization and liquid chromatography method with MS/MS detection   | CZ_SOP_D06_03_185.B<br>(Journal of Chromatography A,<br>1292 (2013) 132-141;<br>EC Decision No. 2002/657/ES)  | Sediments, sludges, soils, rocks | A, B, D                               |
| 2.71 <sup>1</sup>                 | Determination of complexing substances by gas chromatography method with MS detection  | CZ_SOP_D06_03_186<br>(ČSN EN ISO 16588)   | Water                            | A, B, D                               |
| 2.72 <sup>1</sup>                 | Determination of polycyclic aromatic hydrocarbons derivatives by liquid chromatography method with MS detection  | CZ_SOP_D06_03_187<br>(Journal of Chromatography A,<br>1133 (2006) 241-247)  | Emission, imission               | A, B, D                               |
| 2.73 <sup>1</sup>                 | Determination of organic acids by capillary electrophoresis method with UV detection   | CZ_SOP_D06_03_188.A<br>(Lumex Company manual,<br>Kudrjashova, M.: Capillary<br>electrophoretic monitoring of<br>microbial growth: determination<br>of organic acids, COPYRIGHT<br>2004 Estonian Academy<br>Publishers, June, 2004 Source<br>Volume: 53 Source Issue: 2,<br>ISSN: 1406-0124) | Water                            | A, B, D                               |
| 2.74 <sup>1</sup>                 | Determination of organic acids by capillary electrophoresis method with UV detection   | CZ_SOP_D06_03_188.B<br>(manuál firmy Lumex,<br>Kudrjashova, M.: Capillary<br>electrophoretic monitoring of<br>microbial growth: determination<br>of organic acids, COPYRIGHT<br>2004 Estonian Academy<br>Publishers, June, 2004 Source<br>Volume: 53 Source Issue: 2,<br>ISSN: 1406-0124)   | Feed, composts, digestate        | A, B, D                               |
| 2.75 <sup>1</sup>                 | Determination of gases by gas chromatography method with detection FID and TCD   | CZ_SOP_D06_03_189<br>(US EPA Method RSK-175)  | Water, liquid samples            | A, B, D                               |

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|-----------------------------------|--|---|--|---------------------------------------|
| 2.76 <sup>1</sup>                 | Low limit determination of volatile organic compounds by gas chromatography method with MS detection and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_190,<br>(US EPA Method 5021;<br>US EPA Method 8260)                             | Water  | A, B, D                               |
| 2.77 <sup>1</sup>                 | Low limit determination of volatile organic compounds by gas chromatography method with MS detection and calculation of volatile organic compounds sums from measured values | CZ_SOP_D06_03_190,<br>(US EPA Method 5021;<br>US EPA Method 8260)                             | Solid samples  | A, B, D                               |
| 2.78 <sup>1</sup>                 | Determination of chlorinated alkanes by gas chromatography method with MS/MS detection   | CZ_SOP_D06_03_192.A<br>(ČSN EN ISO 12010)   | Water  | A, B, D                               |
| 2.79 <sup>1</sup>                 | Determination of chlorinated alkanes by gas chromatography method with MS/MS detection   | CZ_SOP_D06_03_192.B<br>(ČSN EN ISO 12010;<br>ČSN EN ISO 18635)                                | Building materials, materials for building, sediments, soils | A, B, D                               |
| 2.80 <sup>1</sup>                 | Determination of aniline and its derivatives by gas chromatography with MS detection   | CZ_SOP_D06_03_193<br>(US EPA Method 8270)   | Sediments, sludges, soils, rocks                             | A, B, D                               |
| 2.81 <sup>1</sup>                 | Determination of chlorinated phenols by liquid chromatography method with MS/MS detection  | CZ_SOP_D06_03_194   | Water  | A, B, D                               |
| 2.82 <sup>1</sup>                 | Determination of drug residues by liquid chromatography method with MS/MS detection and results recalculation to the volume of air   | CZ_SOP_D06_03_195<br>(Jia Yu a kol.: Biomed.<br>Chromatogr. 2011; 25: 511–516)                | Working environment  | A, B, D                               |
| 2.83 <sup>1</sup>                 | Determination of epichlorhydrine by gas chromatography method with MS/MS detection   | CZ_SOP_D06_03_196<br>(Application sheet by Agilent<br>Technologies 5990-6433EN)               | Water  | A, D                                  |
| 2.84 <sup>1</sup>                 | Determination of perfluorinated, polyfluorinated and brominated compounds by liquid chromatography with MS/MS detection  | CZ_SOP_D06_03_197.A<br>(US EPA Method 537;<br>ČSN P CEN/TS 15968;<br>ISO 21675;<br>ISO 25101) | Water, extracts  | A, B, D                               |
| 2.85 <sup>1</sup>                 | Determination of per fluorinated, polyfluorinated and brominated compounds by liquid chromatography with MS/MS detection   | CZ_SOP_D06_03_197.B<br>(DIN 38414-14)   | Sediments, sludges, soils, rocks                             | A, B, D                               |

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|-----------------------------------|--|---|---|---------------------------------------|
| 2.86 <sup>1</sup>                 | Determination of volatile organic compounds by gas chromatography method with TCD and FID detection and calculation of volatile organic compounds percentage from measured values                                  | CZ_SOP_D06_03_198<br>(ČSN EN ISO 11890-2)   | Organic solvents  | A, B, D                               |
| 2.87 <sup>3</sup>                 | Determination of fat by gravimetry   | CZ_SOP_D06_06_199<br>(US EPA Method 1613)   | Food, feed, biological materials  | D                                     |
| 2.88 <sup>1</sup>                 | Determination of 3-chloro-1,2-propanediol by gas chromatography method with MS detection   | CZ_SOP_D06_03_200<br>(LMBG 52.02(1))  | Spices  | A, D                                  |
| 2.89 <sup>1</sup>                 | Determination of drug residues and narcotic and psychotropic substances by liquid chromatography method with MS/MS detection   | CZ_SOP_D06_03_201.A<br>(US EPA Method 1694;<br>US EPA Method 539)   | Water   | A, B, D                               |
| 2.90 <sup>1</sup>                 | Determination of organic acids by gas chromatography method with FID detection   | CZ_SOP_D06_03_202<br>(Determination of Volatile Fatty Acids in sewage sludge 1979<br>HMSO.ISBN<br>0-11-75462-4)   | Digestates  | A, B, D                               |
| 2.91 <sup>1</sup>                 | Determination of polycyclic aromatic hydrocarbons by gas chromatography with MS/MS detection, calculation of sums of polycyclic aromatic hydrocarbons from measured values and conversion of results to air volume | CZ_SOP_D06_03_203<br>(ISO 11338-2;<br>ČSN EN 15549)   | Emission, imission  | A, B, D                               |
| 2.92 <sup>1</sup>                 | Determination of aniline and its derivatives by gas chromatography with MS detection   | CZ_SOP_D06_03_193<br>(US EPA Method 8270D;<br>US EPA Method 8000D)  | Waters  | A, B, D                               |
| <b>3</b>                          | <b>Organic Food Chemistry</b>  |   |   |                                       |
| 3.1 <sup>1</sup>                  | Determination of fatty acids by gas chromatography method with FID detection and calculation sum of SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6  | CZ_SOP_D06_09_202<br>(ČSN EN ISO 12966-1;<br>ČSN EN ISO 12966-2)  | Food, feed, dietary supplements   | A, B, D                               |
| 3.2 <sup>1</sup>                  | Determination of cholesterol by gas chromatography method with FID detection   | CZ_SOP_D06_09_205<br>(Prof. Ing. Jiří Davídek, DrSc et al, Laboratory Manual of Food Analysis;<br>Journal of Chromatography A.;<br>24 (1994); 672 (1-2): 267-272) | Fatty food, non-fatty food, dietary supplements                           | A, D                                  |
| 3.3 <sup>1</sup>                  | Determination of retinol and alpha tocopherol by liquid chromatography method with FLD detection   | CZ_SOP_D06_09_206<br>(ČSN EN 12823-1;<br>ČSN EN 12822)  | Fats, fatty food, non-fatty food, dietary supplements, feed, and premixes | A, D                                  |



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|-----------------------------------|---|--|---|---------------------------------------|
| 3.4 <sup>1</sup>                  | Determination of vitamin C (ascorbic acid) by liquid chromatography method with PDA detection   | CZ_SOP_D06_09_207<br>(ČSN EN 14130:2004)   | Beverages, candy, non-fatty food, dietary supplements, fruit, vegetables                                      | A, D                                  |
| 3.5 <sup>1</sup>                  | Determination of Soya protein by ELISA by commercial set  | CZ_SOP_D06_09_208<br>(R-Biopharm Manual – Ridascreen FAST Soya)                        | Food, swab  | A, D                                  |
| 3.6 <sup>1</sup>                  | Determination of substitute sweeteners by liquid chromatography method with PDA detection   | CZ_SOP_D06_09_209<br>(ČSN EN 12856)  | Beverages, milk products, jams, dietary supplements, fishes   | A, B, D                               |
| 3.7 <sup>1</sup>                  | Determination of caffeine, theobromine, and theophylline by liquid chromatography method with PDA detection and calculation of fat-free cocoa solids from measured values | CZ_SOP_D06_09_210<br>(ČSN EN 12856;<br>ČSN 56 0578)                                    | Beverages, tea, coffee, cocoa, chocolate  | A, D                                  |
| 3.8 <sup>1</sup>                  | Determination of preserving agents in food by liquid chromatography method with PDA detection   | CZ_SOP_D06_09_211<br>(ČSN EN 12856)  | Beverages, jams, vegetable and fruit sauces and pastes, mustard, fatty and milk products, dietary supplements | A, B, D                               |
| 3.9 <sup>1</sup>                  | Determination of aflatoxin B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> and G <sub>2</sub> by liquid chromatography method with FLD detection                         | CZ_SOP_D06_09_212<br>(ČSN EN 14123;<br>ČSN EN ISO 16050;<br>ČSN EN ISO 17375)          | Food with low water content, beverages, feed  | A, D                                  |
| 3.10 <sup>1</sup>                 | Determination of the content of ochratoxin A by liquid chromatography method with FLD detection   | CZ_SOP_D06_09_213<br>(ČSN EN 15829;<br>ČSN EN 14133;<br>ČSN EN 14132)                  | Food with low water content, beverages, dietary supplements, feed   | A, D                                  |
| 3.11 <sup>1</sup>                 | Determination of zearalenone by liquid chromatography method with FLD detection   | CZ_SOP_D06_09_214<br>(ČSN EN 15792;<br>ČSN EN 15850)                                   | Cereals, feed   | A, D                                  |
| 3.12 <sup>1</sup>                 | Determination of aflatoxin M1 by liquid chromatography method with FLD detection  | CZ_SOP_D06_09_215<br>(ČSN EN ISO 14501)  | Milk, dried milk, and products from them  | A, D                                  |
| 3.13 <sup>1</sup>                 | Determination of patulin by liquid chromatography method with PDA detection   | CZ_SOP_D06_09_216<br>(ČSN EN 14177)  | Food with high water content, dietary supplements, beverages  | A, D                                  |
| 3.14 <sup>1</sup>                 | Determination of deoxynivalenol by liquid chromatography method with PDA detection  | CZ_SOP_D06_09_217<br>(ČSN EN 15791;<br>ČSN EN 15891)                                   | Food with low water content, beverages, dietary supplements, feed   | A, D                                  |
| 3.15 <sup>1</sup>                 | Determination of vitamins B <sub>1</sub> , B <sub>2</sub> a B <sub>6</sub> by liquid chromatography method with FLD detection   | CZ_SOP_D06_09_218<br>(ČSN EN 14122;<br>ČSN EN 14152;<br>ČSN EN 14663;<br>ČSN EN 14164) | Fats, fatty food, non-fatty food, feed, dietary supplements   | A, B, D                               |

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|-----------------------------------|--|---|---|---------------------------------------|
| 3.16 <sup>1</sup>                 | Determination of folic acid by ELISA method by commercial set  | CZ_SOP_D06_09_219<br>(R-Biopharm– Ridascreen Folic Acid Manual)               | Food, feed, dietary supplements   | A, D                                  |
| 3.17 <sup>1</sup>                 | Determination of biotin by ELISA method by commercial set  | CZ_SOP_D06_09_220<br>(Demeditec Manual)                                       | Milk, milk products, cereals and cereal products, non-alcoholic beverages, baby food, feed, dietary supplements | A, D                                  |
| 3.18 <sup>1</sup>                 | Determination of gliadin (gluten) by sandwich enzyme immunoassay ELISA Method by commercial set                      | CZ_SOP_D06_09_221.A<br>(R-Biopharm– Ridascreen Gliadin Manual)                | Fatty food, non-fatty food, dietary supplements, swabs  | A, D                                  |
| 3.19 <sup>1</sup>                 | Determination of gliadine (gluten) by competitive immunoassay ELISA Method by commercial set                         | CZ_SOP_D06_09_221.B<br>(R-Biopharm– Ridascreen Gliadin Manual)                | Fermented and hydrolyzed foods and beverages  | A, D                                  |
| 3.20 <sup>1</sup>                 | Determination of casein allergen by ELISA method by commercial set   | CZ_SOP_D06_09_222<br>(Bio-Check - Casein Check Manual)                        | Food, dietary supplements, swabs  | A, D                                  |
| 3.21 <sup>1</sup>                 | Determination of β-lactoglobulin allergen by ELISA method with a commercial kit                                      | CZ_SOP_D06_09_223<br>(Bio-Check– β-lactoglobulin Check Manual)                | Food, dietary supplements, swabs  | A, D                                  |
| 3.22 <sup>1</sup>                 | Determination of mustard allergen by ELISA method by commercial set  | CZ_SOP_D06_09_224<br>(Bio-Check– Mustard Check Manual)                        | Food, dietary supplements, swabs  | A, D                                  |
| 3.23 <sup>1</sup>                 | Determination of niacin by liquid chromatography method with PDA detection   | CZ_SOP_D06_09_225<br>(ČSN EN 15652)   | Fatty food, non-fatty food, feed, dietary supplements   | D                                     |
| 3.24 <sup>1</sup>                 | Determination of soya protein by ELISA method by commercial set  | CZ_SOP_D06_09_226<br>(Biokits Neogen– Soya assay Biokits Manual)              | Meat products   | A, D                                  |
| 3.25 <sup>1</sup>                 | Determination of parabens contain by liquid chromatography method with PDA detection                                 | CZ_SOP_D06_09_227<br>(HPLC for Food Analysis, Agilent Technologies 1996-2001) | Cosmetics   | A, B, D                               |
| 3.26 <sup>1</sup>                 | Determination of allergen peanut protein by ELISA method by commercial set   | CZ_SOP_D06_09_228<br>(Bio-Check– Peanut Check Manual)                         | Fatty food, non-fatty food, feed, dietary supplements   | A, D                                  |
| 3.27 <sup>1</sup>                 | Determination of fat-soluble vitamins (D2 and D3) by two-dimensional liquid chromatography method with PDA detection | CZ_SOP_D06_09_229<br>(ČSN EN 12821;<br>AN-1069 Thermo – Application list)     | Fats, fatty food, non-fatty food, dietary supplements, feed, premixes   | A, B, D                               |
| 3.28 <sup>1</sup>                 | Determination of Vitamin B12 by ELISA method by commercial set   | CZ_SOP_D06_09_230<br>(R-Biopharm– Ridascreen Fast Vitamin B12 Manual)         | Food, feed, dietary supplements   | A, D                                  |

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| 3.29 <sup>1</sup>           | Determination of fat-soluble vitamins (vitamins A, E) by liquid chromatography method with FLD detection | CZ_SOP_D06_09_231<br>(ČSN EN 12823-1,<br>ČSN EN 12822)  | Cosmetics masks  | A, B, D                         |
| 3.30 <sup>1</sup>           | Determination of water-soluble vitamins (vitamin C) by liquid chromatography method with PDA detection   | CZ_SOP_D06_09_232<br>(ČSN EN 14130:2004)                | Cosmetics masks  | A, B, D                         |
| 3.31 <sup>1</sup>           | Determination of almond allergen by ELISA method by commercial set                                       | CZ_SOP_D06_09_233<br>(Bio-Check– Almonde Check Manual)  | Food, dietary supplements, swabs                                     | A, D                            |
| 3.32 <sup>1</sup>           | Determination of hazelnut allergen by ELISA method by commercial set                                     | CZ_SOP_D06_09_234<br>(Bio-Check– Hazelnut Check Manual) | Food, dietary supplements, swabs                                     | A, D                            |
| 3.33 <sup>1</sup>           | Determination of egg allergen (egg white proteins) by ELISA method by commercial set                     | CZ_SOP_D06_09_235<br>(Bio-Check– Egg Check Manual)      | Food, dietary supplements, swabs                                     | A, D                            |
| 3.34 <sup>1</sup>           | Determination of milk allergen (casein and β-lactoglobulin proteins) by ELISA method by commercial set   | CZ_SOP_D06_09_236<br>(Bio-Check– Milk Check Manual)     | Food, dietary supplements, swabs                                     | A, D                            |
| 3.35 <sup>1</sup>           | Determination of sesame allergen by ELISA method by commercial set                                       | CZ_SOP_D06_09_237<br>(Bio-Check– Sezame Check Manual)   | Food, dietary supplements, swabs                                     | A, D                            |
| 3.36 <sup>1</sup>           | Determination of pantothenic acid by liquid chromatography with PDA detection                            | CZ_SOP_D06_09_238                                       | Food, drinks, dietary supplements                                    | A, D                            |
| <b>4</b>                    | <b>Water Microbiology</b>  |   |  |                                 |
| 4.1 <sup>1</sup>            | Enumeration of mesophilic bacteria by cultivation  | ČSN 75 7841   | Surface, ground, waste, pool water                                   | D                               |
| 4.2 <sup>1</sup>            | Enumeration of psychrophilic bacteria by cultivation   | ČSN 75 7842   | Surface, ground, waste, pool water                                   | D                               |
| 4.3 <sup>1</sup>            | 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, wastewater   | D                               |
| 4.4 <sup>1</sup>            | Enumeration of culturable microorganisms<br>a) at 22 °C<br>b) at 36 °C by cultivation                    | ČSN EN ISO 6222;<br>STN EN ISO 6222                     | Drinking, bottled, natural mineral, pool, raw, treated, ground water | D                               |
| 4.5 <sup>1</sup>            | Enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by membrane filtration       | ČSN 75 7835   | Drinking, surface, ground, pool, wastewater                          | D                               |
| 4.6 <sup>1</sup>            | Enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration                      | ČSN EN ISO 9308-1;<br>STN EN ISO 9308-1                 | Drinking, pool, bottled, raw, treated, ground water                  | D                               |

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|-----------------------------------|--|---|--|---------------------------------------|
| 4.7 <sup>1</sup>                  | Enumeration of <i>Pseudomonas aeruginosa</i> by membrane filtration  | ČSN EN ISO 16266;<br>STN EN ISO 16266   | Drinking, bottled, natural mineral, pool, surface, wastewater                              | D                                     |
| 4.8 <sup>1</sup>                  | Enumeration of coagulase-positive staphylococci ( <i>Staphylococcus Aureus</i> and other species) by membrane filtration | ČSN EN ISO 6888-1;<br>ČSN EN ISO 8199   | Pool, surface, waste, drinking, ground water   | D                                     |
| 4.9 <sup>1</sup>                  | Enumeration of <i>Candida</i> yeasts by membrane filtration  | CZ_SOP_D06_09_258<br>(Hausler, J.: Microbiological Culture Methods of Quality Inspection, Volume III, 1995) | Pool, surface, wastewater  | D                                     |
| 4.10 <sup>1</sup>                 | Enumeration of <i>Clostridium perfringens</i> by membrane filtration   | CZ_SOP_D06_09_259<br>(GR 252/2004 Coll., Annex 6;<br>GR č. 354/2006 Coll., Annex.3)                         | Drinking, bottled, pool, natural mineral, raw, treated, ground water                       | D                                     |
| 4.11 <sup>1</sup>                 | Detection of <i>Salmonella</i> by membrane filtration  | ČSN ISO 19250   | Drinking, surface, ground, pool, wastewater  | D                                     |
| 4.12 <sup>1</sup>                 | Determination of bioseston by microscopy   | ČSN 75 7712;<br>STN 757711  | Drinking, bottled, raw, treated, ground water  | D                                     |
| 4.13 <sup>1</sup>                 | Determination of abioseston by microscopy  | ČSN 75 7713;<br>STN 757712  | Drinking, bottled, raw, treated, ground water  | D                                     |
| 4.14 <sup>1</sup>                 | Detection and enumeration of <i>Legionella</i> by cultivation and membrane filtration                                    | ČSN EN ISO 11731  | Water, treated water   | D                                     |
| 4.15 <sup>1</sup>                 | Detection and enumeration of <i>Legionella</i> by cultivation  | ČSN EN ISO 11731  | Sediments, alluvium, growths   | D                                     |
| 4.16 <sup>1</sup>                 | Detection and enumeration of <i>Legionella</i> by cultivation  | ČSN EN ISO 11731  | Swabs  | D                                     |
| 4.17 <sup>1</sup>                 | Enumeration of Coliform bacteria by membrane filtration  | ČSN 75 7837   | Non-disinfected water  | D                                     |
| 4.18 <sup>1</sup>                 | Enumeration of spore sulphite reducing anaerobes ( <i>Clostridium</i> ) by membrane filtration                           | ČSN EN 26461-2  | Water  | D                                     |
| 4.19 <sup>1</sup>                 | Microbiological testing of water for haemodialysis. Enumeration of viable microorganisms                                 | CZ_SOP_D06_09_266<br>(ČSN EN ISO 23500-3)   | Dialysis water   | D                                     |
| 4.20 <sup>1</sup>                 | Microbiological testing of dialysis fluid for haemodialysis. Enumeration of viable microorganisms                        | CZ_SOP_D06_09_267<br>(ČSN EN ISO 23500-5)   | Dialysis fluid   | D                                     |
| 4.21 <sup>1</sup>                 | Determination of the concentration of bacterial endotoxins by the LAL test: the turbidimetric kinetic method             | CZ_SOP_D06_09_268<br>(Ph. Eur. chapter 2.6.14)  | Dialysis water, dialysis fluid, water purified, water highly purified, water for injection | D                                     |

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|-----------------------------|--|--|---|---------------------------------|
| 4.22 <sup>1</sup>           | Determination of the total number of micro-organisms   | CZ_SOP_D06_09_269<br>(Ph. Eur chapter 6.3:0008, 6.3:1927, 6.3:0169)                | Water purified, water highly purified, water for injection                  | D                               |
| 4.23 <sup>1</sup>           | Test for specific micro-organisms – Detection of <i>Pseudomonas Aeruginosa</i> bacteria                          | CZ_SOP_D06_09_270<br>(Ph. Eur chapter 6.3:0008, 6.3:1927, 6.3:0169)                | Water purified, water highly purified, water for injection                  | D                               |
| 4.24 <sup>1</sup>           | Determination of Clostridium perfringens – membrane filter method  | ČSN EN ISO 14189   | Drinking, bottled, pool, natural mineral, raw, treated, underground water   | D                               |
| 4.25 <sup>1</sup>           | Quantitative determination of somatic coliphages   | ČSN EN ISO 10705-2<br>ČSN EN ISO 10705-3   | Drinking, raw, bottled, surface, underground, interoperational, waste water | D                               |
| <b>5</b>                    | <b>Microbiology</b>  |  |   | D                               |
| 5.1 <sup>1</sup>            | Enumeration of microorganisms by cultivation   | ČSN EN ISO 4833-1  | Food, feed, dietary supplements   | D                               |
| 5.2 <sup>1</sup>            | Enumeration of coliform bacteria by cultivation  | ČSN ISO 4832   | Food, feed, dietary supplements   | D                               |
| 5.3 <sup>1</sup>            | Enumeration of enterococci by cultivation  | CZ_SOP_D06_09_302<br>(ČSN 56 0100:1968)  | Food, feed, dietary supplements   | D                               |
| 5.4 <sup>1</sup>            | Enumeration of <i>Bacillus cereus</i> by cultivation   | ČSN EN ISO 7932  | Food, feed, dietary supplements   | D                               |
| 5.5 <sup>1</sup>            | Enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) by cultivation | ČSN EN ISO 6888-1  | Food, feed, dietary supplements   | D                               |
| 5.6 <sup>1</sup>            | Enumeration of <i>Clostridium perfringens</i> by cultivation   | ČSN EN ISO 7937  | Food, feed, dietary supplements   | D                               |
| 5.7 <sup>1</sup>            | Detection of <i>Salmonella</i> by cultivation  | ČSN EN ISO 6579-1  | Food, feed, dietary supplements   | D                               |
| 5.8 <sup>1</sup>            | Detection of <i>Salmonella</i> by cultivation  | CZ_SOP_D06_09_307,<br>except chapter 9.1.2<br>(ČSN EN ISO 6579;<br>AHM no. 1/2008) | Sludge, bio waste, compost, substrates, soils                               | D                               |
| 5.9 <sup>1</sup>            | Detection of <i>Salmonella</i> by cultivation  | CZ_SOP_D06_09_307,<br>except chapter 9.1.1<br>(ČSN EN ISO 6579;<br>AHM no. 1/2008) | Biological materials  | D                               |
| 5.10 <sup>1</sup>           | Determination of inhibiting substances by Delvotest method   | CZ_SOP_D06_09_308<br>(Manual O.K.Servis BioPro)                                    | Milk  | D                               |
| 5.11 <sup>1</sup>           | Detection of <i>Salmonella</i> by the ELISA method - commercial kit  | CZ-SOP-D06_09_309<br>(Solus Salmonella ELISA;<br>Solus ONE Salmonella ELISA)       | Food, feed, dietary supplements   | D                               |

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|-----------------------------------|--|--|--|---------------------------------------|
| 5.12 <sup>1</sup>                 | Enumeration of yeasts and moulds by cultivation  | ČSN ISO 21527-1;<br>ČSN ISO 21527-2                          | Food, feed, dietary supplements                      | D                                     |
| 5.13 <sup>1</sup>                 | Detection of <i>Enterobacteriaceae</i> by cultivation  | ČSN ISO 21528-1  | Food, feed, dietary supplements                      | D                                     |
| 5.14 <sup>1</sup>                 | Enumeration of spore-forming microorganisms by cultivation   | CZ_SOP_D06_09_312<br>(ČSN 56 0100:1968)                      | Food, feed   | D                                     |
| 5.15 <sup>1</sup>                 | Detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio species</i> by cultivation                   | ČSN EN ISO 21872-1   | Food, feed   | D                                     |
| 5.16 <sup>1</sup>                 | Enumeration of mesophilic lactic acid bacteria by cultivation  | ČSN ISO 15214  | Food, feed, dietary supplements                      | D                                     |
| 5.17 <sup>1</sup>                 | Detection of <i>Shigella</i> by cultivation  | ČSN EN ISO 21567   | Food, feed   | D                                     |
| 5.18 <sup>1</sup>                 | Detection of <i>Campylobacter</i> spp. by cultivation  | ČSN EN ISO 10272-1   | Food, feed   | D                                     |
| 5.19 <sup>1</sup>                 | Detection of presumptive pathogenic <i>Yersinia enterocolitica</i> by cultivation                      | ČSN EN ISO 10273   | Food, feed   | D                                     |
| 5.20 <sup>1</sup>                 | Enumeration of Enterobacteriaceae by cultivation   | ČSN ISO 21528-2  | Food, feed, dietary supplements                      | D                                     |
| 5.21 <sup>1</sup>                 | Enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> by cultivation                      | ČSN ISO 16649-2  | Food, feed, dietary supplements                      | D                                     |
| 5.22 <sup>1</sup>                 | Detection and enumeration of <i>Listeria</i> spp. and <i>Listeria monocytogenes</i> by cultivation     | ČSN EN ISO 11290-1;<br>ČSN EN ISO 11290-2                    | Food, feed, dietary supplements                      | D                                     |
| 5.23 <sup>1</sup>                 | Enumeration of potentially toxinogenic moulds on special media by cultivation                          | CZ_SOP_D06_09_321<br>(AHEM no. 1/2003)                       | Food, feed   | D                                     |
| 5.24 <sup>1</sup>                 | Enumeration of microorganisms in air by aeroscopy and sedimentation method                             | CZ_SOP_D06_09_322<br>(ČSN 56 0100:1968)                      | Internal air environment                             | D                                     |
| 5.25 <sup>1</sup>                 | Determination of microbial contamination of areas, surface of equipment and packages using swab method | CZ_SOP_D06_09_323<br>(ČSN 56 0100:1968)                      | Areas, surface, packaging materials, surface of food | D                                     |
| 5.26 <sup>1</sup>                 | Enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by cultivation             | CZ_SOP_D06_09_324<br>(AHEM no. 1/2008;<br>ČSN ISO 16649-2)   | Sludge, bio waste, compost, substrates, soils, sand  | D                                     |
| 5.27 <sup>1</sup>                 | Enumeration of enterococci by cultivation  | CZ_SOP_D06_09_325<br>(AHEM no. 1/2008;<br>ČSN EN ISO 7899-2) | Sludge, bio waste, compost, substrates, soils, sand  | D                                     |
| 5.28 <sup>1</sup>                 | Detection of <i>Listeria</i> by ELISA method - commercial set Solus <i>Listeria</i>                    | CZ_SOP_D06_09_326<br>(Solus Manual)                          | Food, feed, dietary supplements                      | D                                     |

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| 5.29 <sup>1</sup>           | Determination of the number of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) - method of detection | ČSN EN ISO 6888-3   | Food, feed, dietary supplements   | D                               |
| 5.30 <sup>1</sup>           | Determination of low numbers of <i>Bacillus cereus</i> - method of detection  | ČSN EN ISO 21871  | Food, feed, dietary supplements   | D                               |
| 5.31 <sup>1</sup>           | Detection of <i>Cronobacter (Enterobacter) sakazakii</i> by cultivation   | ČSN EN ISO 22964  | Milk and milk products  | D                               |
| 5.32 <sup>1</sup>           | Detection and enumeration of aerobic mesophilic bacteria by cultivation   | ČSN EN ISO 21149  | Cosmetics   | D                               |
| 5.33 <sup>1</sup>           | Detection of <i>Pseudomonas aeruginosa</i> by cultivation   | ČSN EN ISO 22717;<br>ČSN EN ISO 18415                               | Cosmetics   | D                               |
| 5.34 <sup>1</sup>           | Detection of <i>Staphylococcus aureus</i> by cultivation  | ČSN EN ISO 22718;<br>ČSN EN ISO 18415                               | Cosmetics   | D                               |
| 5.35 <sup>1</sup>           | Detection of <i>Candida albicans</i> by cultivation   | ČSN EN ISO 18416;<br>ČSN EN ISO 18415                               | Cosmetics   | D                               |
| 5.36 <sup>1</sup>           | Detection of <i>Escherichia coli</i> by cultivation   | ČSN EN ISO 21150;<br>ČSN EN ISO 18415                               | Cosmetics   | D                               |
| 5.37 <sup>1</sup>           | Enumeration of yeast and mould by cultivation   | ČSN EN ISO 16212  | Cosmetics   | D                               |
| 5.38 <sup>1</sup>           | Evaluation of antimicrobial protection of cosmetic product, test of conservation effectiveness  | CZ_SOP_D06_09_336<br>(ČSN EN ISO 11930;<br>Ph. Eur., chapter 5.1.3) | Cosmetics   | D                               |
| 5.39 <sup>1</sup>           | Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> - Technique of most probable number          | ČSN ISO 7251,<br>except article 9.2                                 | Food, feed  | D                               |
| 5.40 <sup>1</sup>           | Microbiological testing of non-sterile products – Determination of the number of microorganisms   | CZ_SOP_D06_09_338<br>(Ph. Eur., chapter 2.6.12)                     | Pharmaceutical products,<br>intermediates, raw materials.<br>veterinary medicines,<br>iopreparations, dietary<br>supplements  | D                               |
| 5.41 <sup>1</sup>           | Microbiological testing of non-sterile products – Tests for specific micro-organisms  | CZ_SOP_D06_09_339<br>(Ph. Eur., chapter 2.6.13)                     | Pharmaceutical products,<br>intermediates, raw materials.<br>veterinary medicines,<br>biopreparations, dietary<br>supplements | D                               |
| 5.42 <sup>1</sup>           | Determination of the number of presumptive <i>Pseudomonas</i> spp.  | ČSN EN ISO 13720  | Meat and meat products  | D                               |
| 5.43 <sup>1</sup>           | Method for determining the number of bacteria of the genus <i>Pseudomonas</i>   | ČSN P ISO/TS 11059  | Milk and milk products  | D                               |

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|-----------------------------|---|--|--|---------------------------------|
| <b>6</b>                    | <b>Ecotoxikology</b>  |  |  |                                 |
| 6.1 <sup>2</sup>            | Determination of the acute lethal toxicity of substance to a freshwater fish  | CZ_SOP_D06_07_350<br>(ČSN EN ISO 7346-1;<br>ČSN EN ISO 7346-2;<br>STN 83 8303)   | Surface, ground and wastewater, extracts of waste, solutions and extracts of chemical substances and agents              | A, D                            |
| 6.2 <sup>2</sup>            | Determination of the inhibition of the mobility of <i>Daphnia magna Straus</i> - Acute toxicity test  | CZ_SOP_D06_07_351<br>(ČSN EN ISO 6341;<br>STN 83 8303)   | Surface, ground and wastewater, extracts of waste, solutions and extracts of chemical substances and agents              | A, D                            |
| 6.3 <sup>2</sup>            | Freshwater algal growth inhibition test   | CZ_SOP_D06_07_352<br>(ČSN EN ISO 8692,<br>STN 83 8303)   | Surface, ground and wastewater, extracts of waste, solutions and extracts of chemical substances and agents              | A, D                            |
| 6.4 <sup>2</sup>            | Toxicity test on seeds of white mustard ( <i>Sinapis alba</i> )   | CZ_SOP_D06_07_353<br>(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 ( <i>Sinapis alba</i> )", STN 83 8303) | Surface, ground and wastewater, extracts of waste, solutions and extracts of chemical substances and agents              | A, D                            |
| 6.5 <sup>2</sup>            | Determination of the inhibitory effect of water samples on the light emission of <i>Vibrio fischeri</i>   | CZ_SOP_D06_07_354<br>(ČSN EN ISO 11348-2)  | Surface, ground and wastewater, extracts, percolation water, saline, and brackish water                                  | A, D                            |
| 6.6-6.7                     | Reserved  |  |  |                                 |
| 6.8 <sup>2</sup>            | <i>Lactuca sativa</i> – determination of inhibition of root growth  | CZ_SOP_D06_07_357<br>(ČSN EN ISO 11269-1)  | Waste, soils, sediments  | A, D                            |
| 6.9                         | Reserved  |  |  |                                 |
| 6.10 <sup>2</sup>           | Determination of the inhibition of the growth, germination, and germination index (phytotoxicity) of Garden Cress ( <i>Lepidium sativum</i> ) - Acute toxicity test | CZ_SOP_D06_07_359<br>(F. Zucconi et al.: Biological evaluation of compost maturity. BioCycle, 22(2), 1981, pages 27–29.)   | Surface, ground and wastewater, extracts of waste and composts, solutions and extracts of chemical substances and agents | A, D                            |
| 6.11 <sup>2</sup>           | Determination of the inhibition of the growth of Lesser Duckweed ( <i>Lemna minor</i> ) - Acute toxicity test   | CZ_SOP_D06_07_1350<br>(ČSN EN ISO 20079)   | Surface, ground and wastewater, extracts of waste and composts, solutions and extracts of chemical substances and agents | A, D                            |
| 6.12 <sup>2</sup>           | Determination of the number of germinating weed seeds in composts   | CZ_SOP_D06_07-1351<br>(Report on the results of the vegetation container test in 2020, UKZUZ 025113/2021)  | Composts, waste  | D                               |



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|-----------------------------|--|--|-----------------|---------------------------------|
| <b>7</b>                    | <b>Radiology</b>   |  |                 |                                 |
| 7.1 <sup>2</sup>            | Determination of gross alpha activity by measuring of evaporated residue in a mixture with ZnS (Ag) scintillator   | ČSN 75 7611, chap. 4   | Water, extracts | D                               |
| 7.2 <sup>2</sup>            | Determination of gross alpha activity by measuring of incinerated evaporated residue by means of proportional detector   | ČSN 75 7611, chap. 5   | Water, extracts | D                               |
| 7.3 <sup>2</sup>            | Determination of gross beta activity by measuring of evaporated residue by means of proportional detector and calculation of gross beta activity corrected for potassium 40 from measured values | CZ_SOP_D06_07_361<br>(ČSN 75 7612;<br>ČSN EN ISO 9697;<br>SÚJB Recommendation<br>„Measurement and assessment of the content of natural radionuclides in drinking water from public sources and bottled water”,<br>DR-RO-5.1 (Rev. 0.0), Prague 2017) | Water, extracts | A, D                            |
| 7.4 <sup>2</sup>            | Determination of radium 226 after concentration by scintillation emanometry  | ČSN 75 7622  | Water, extracts | D                               |
| 7.5 <sup>2</sup>            | Determination of radon 222 by scintillation emanometry after its transportation into scintillation chamber using under-pressure  | CZ_SOP_D06_07_363.A<br>(ČSN 75 7624, chap. 5)  | Water, extracts | D                               |
| 7.6 <sup>2</sup>            | Determination of radon 222 by scintillation gamma-spectrometry with a well type NaI (Tl) crystal   | CZ_SOP_D06_07_363.B<br>(ČSN 75 7624, chap. 6)  | Water, extracts | D                               |
| 7.7 <sup>2</sup>            | Determination of radon 222 by liquid scintillation counting method (LSC)   | CZ_SOP_D06_7_363.C<br>(ČSN 75 7625)  | Water           | D                               |
| 7.8 <sup>2</sup>            | Determination of uranium by spectrophotometry after separation on silica gel and calculation of <sup>238</sup> U from measured values  | CZ_SOP_D06_07_364<br>(ČSN 75 7614)   | Water, extracts | D                               |
| 7.9 <sup>2</sup>            | Determination of tritium volume activity by liquid scintillation counting method (LSC)   | CZ_SOP_D06_07_365<br>(ČSN EN ISO 9698)   | Water, extracts | D                               |
| 7.10 <sup>2</sup>           | Determination of polonium 210 after its concentration by sorption on ZnS (Ag) by the measurement of emitted scintillations   | ČSN 75 7626  | Water, extracts | D                               |

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|-----------------------------------|---|--|---|---------------------------------------|
| 7.11 <sup>2</sup>                 | 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<br>(ČSN 75 7626)   | Soils, sludge, sediments, filters   | D                                     |
| 7.12 <sup>2</sup>                 | Non-destructive determination of radionuclides by high resolution gamma-spectrometry and calculation of the mass activity index I (ACI) from the measured volumetric activities of individual radionuclides | CZ_SOP_D06_07_367<br>(ČSN EN ISO 10703,<br>ČSN EN ISO 18589-3; SÚJB<br>Recommendation "Measurement<br>and evaluation of natural<br>radionuclides in building<br>materials",<br>DR-RO-5.2 (Rev. 0.0), Prague<br>2017)   | Solid samples with granularity<br>up to 4 mm, food, water,<br>liquid samples                                  | A, B, D                               |
| 7.13 <sup>2</sup>                 | Determination of gross alpha mass activity by direct measurement of the sample by means of alpha radiation analyser   | CZ_SOP_D06_07_368<br>(ČSN 75 7611;<br>ČSN EN ISO 18589-6;<br>ISO 9696)   | Solid samples pulverized for<br>grain size below 100 µm,<br>liquid samples with boiling<br>point above 100 °C | D                                     |
| 7.14 <sup>2</sup>                 | Determination of gross beta mass activity by direct measurement of the sample by means of beta radiation analyser   | CZ_SOP_D06_07_369<br>(ČSN 75 7612;<br>ČSN EN ISO 9697;<br>ČSN EN ISO 18589-6)  | Solid samples pulverized for<br>grain size below 100 µm,<br>liquid samples with boiling<br>point above 100 °C | D                                     |
| 7.15 <sup>2</sup>                 | Determination of lead 210 after its sorption on ZnS-colloid by beta radiation analyzer  | CZ_SOP_D06_07_370<br>(ČSN 75 7627)   | Water, extracts (with low<br>content of suspended solids or<br>filtrated through 0.45 µm filter)              | D                                     |
| 7.16 <sup>2</sup>                 | Determination of gross alpha activity by co-precipitation method by measurement of filtrated precipitate by means of proportional detector  | CZ_SOP_D06_07_371<br>(ČSN 75 7610)   | Water, extracts   | D                                     |
| 7.17 <sup>2</sup>                 | Calculation of Indicative Dose (ID) from the measured values of volume activities of individual radionuclides   | CZ_SOP_D06_07_372<br>(SÚJB Recommendation<br>"Measurement and assessment of<br>the content of natural<br>radionuclides in drinking water<br>from public sources and bottled<br>water", DR-RO-5.1 (Rev. 0.0),<br>Prague 2017;<br>Council directive<br>2013/51/EURATOM of<br>22. 10. 2013) | Water   | A, D                                  |
| 7.18 <sup>2</sup>                 | Determination of strontium 90 by proportional detector after separation   | CZ_SOP_D06_07_373<br>(ASTM D5811)  | Water   | D                                     |

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|-----------------------------------|--|--|--|---------------------------------------|
| 7.19 <sup>2</sup>                 | Determination of strontium 90 by proportional detector after separation  | CZ_SOP_D06_07_373<br>(ASTM D5811;<br>ASTM C1507)   | Soils, sludge, sediments                             | D                                     |
| 7.20 <sup>2</sup>                 | Determination of strontium 90 by proportional detector after separation  | CZ_SOP_D06_07_373<br>(ASTM D5811;<br>ASTM C1507)   | Biological materials, food, feed                     | D                                     |
| 7.21 <sup>2</sup>                 | Determination of carbon 14 by liquid scintillation method after separation                                     | CZ_SOP_D06_07_374<br>(ČSN EN ISO 13162;<br>ČSN EN 16640<br>ČSN EN ISO 21644<br>US EPA Method 520/5-84-006) | Water, soils, sludge, sediments, bioindicators, food | A, D                                  |
| 7.22 <sup>2</sup>                 | Determination of total volume alpha and beta activities by liquid scintillation counting method (LSC)          | CZ_SOP_D06_07_375<br>(ČSN EN ISO 11704;<br>ASTM D7283)   | Non salted water                                     | D                                     |
| 7.23 <sup>2</sup>                 | Determination of radium 226 and 228 by liquid scintillation measurement method (LSC)                           | CZ_SOP_D06_07_376<br>(ČSN EN ISO 22908)  | Water  | D                                     |
| <b>8</b>                          | <b>Oils and Lubricants</b>   |  |  |                                       |
| 8.1 <sup>11</sup>                 | Determination of kinematic viscosity by viscometer and viscosity index by calculation                          | CZ_SOP_D06_05_400<br>(ČSN EN ISO 3104;<br>ČSN ISO 2909;<br>ASTM D7279;<br>ASTM D7042)                      | Liquid fuels, lubricating oils                       | D                                     |
| 8.2 <sup>11</sup>                 | Determination of flash point - Pensky-Martens closed cup method by flash point analyser                        | CZ_SOP_D06_05_401<br>(ČSN EN ISO 2719;<br>ASTM D93)  | Diesel, light fuel oils                              | D                                     |
| 8.3 <sup>11</sup>                 | Determination of liquid cleanliness code by particle counter   | CZ_SOP_D06_05_402<br>(User Manual for Lase Net Fines-C use and maintenance;<br>ČSN ISO 4406)               | Liquid fuels, lubricating oils                       | D                                     |
| 8.4 <sup>11</sup>                 | Determination of base number by potentiometric titration   | CZ_SOP_D06_05_403<br>(ČSN ISO 3771)  | Lubricating oils, additives to lubricants            | D                                     |
| 8.5 <sup>11</sup>                 | Determination of neutralization number by potentiometric titration   | CZ_SOP_D06_05_404<br>(ČSN ISO 6619)  | Lubricating oils, additives to lubricants            | D                                     |
| 8.6 <sup>11</sup>                 | Determination of water content by Coulometric method   | CZ_SOP_D06_05_405<br>(ASTM D6304)  | Liquid fuels, lubricating oils                       | D                                     |
| 8.7 <sup>11</sup>                 | Determination of flash point and burning point in an opened cup according to Cleveland by flash point analyser | CZ_SOP_D06_05_406<br>(ASTM D92)  | Liquid fuels, lubricating oils                       | D                                     |

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|-----------------------------|---|---|------------------------------------|---------------------------------|
| 8.8 <sup>1</sup>            | Determination of Cold Filter Plugging Point (CFPP) by the method of gradual cooling     | CZ_SOP_D06_05_407<br>(ČSN EN 116;<br>ASTM D6371)  | Diesel, light fuel oils            | D                               |
| <b>9</b>                    | <b>Food General Chemistry</b>   |   |                                    |                                 |
| 9.1 <sup>1</sup>            | Determination of organic acids content by capillary isotachopheresis method             | CZ_SOP_D06_09_450<br>(Recman - Laboratory technique – Application sheets No. 35, 39, 70)                                  | Food, feed                         | A, B, D                         |
| 9.2 <sup>1</sup>            | Gravimetric determination of fat  | CZ_SOP_D06_09_451<br>(ČSN ISO 1443;<br>ČSN ISO 1444;<br>ČSN 46 7092-7)  | Food, feed                         | D                               |
| 9.3 <sup>1</sup>            | Gravimetric determination of dry matter and calculation of moisture from measured value | CZ_SOP_D06_09_452<br>(Journal of AOAC International vol 88, No1,2005;<br>Journal of AOAC International vol 86, No6, 2003) | Food, feed, dietary supplements    | D                               |
| 9.4 <sup>1</sup>            | Determination of nitrate and nitrite by capillary isotachopheresis                      | CZ_SOP_D06_09_453<br>(ITP: Application sheet No.33 VILLA LABECO s.r.o.)   | Food, feed                         | D                               |
| 9.5 <sup>1</sup>            | Determination of phosphates by capillary isotachopheresis                               | CZ_SOP_D06_09_454<br>(ITP: Application sheet No.35 VILLA LABECO s.r.o.)   | Food, feed                         | D                               |
| 9.6 <sup>1</sup>            | Gravimetric determination of water extract content                                      | ČSN 58 0113, Article 38   | Coffee                             | D                               |
| 9.7 <sup>1</sup>            | Determination of acid value and acidity by titration                                    | CZ_SOP_D06_09_456<br>(ČSN EN ISO 660)   | Animal and vegetable fats and oils | D                               |
| 9.8 <sup>1</sup>            | Determination of polyols by ion chromatographic method with EC detection                | CZ_SOP_D06_09_457<br>(ČSN EN 15086;<br>DIONEX Technical Note 20)  | Food, feed, dietary supplements    | A, B, D                         |
| 9.9 <sup>1</sup>            | Gravimetric determination of ash  | CZ_SOP_D06_09_458<br>(ČSN 56 0116-4;<br>ČSN ISO 936;<br>ČSN EN ISO 2171)  | Food, feed                         | D                               |
| 9.10 <sup>1</sup>           | Determination of crude fibre by oxidation hydrolysis method                             | CZ_SOP_D06_09_459<br>(ČSN ISO 5498;<br>ČSN EN ISO 6865)   | Feed                               | D                               |
| 9.11 <sup>1</sup>           | Determination of pH by potentiometry  | CZ_SOP_D06_09_460<br>(ČSN ISO 2917;<br>ČSN ISO 1842)  | Food, feed                         | D                               |
| 9.12 <sup>1</sup>           | Determination of sand in biological material by gravimetry                              | CZ_SOP_D06_09_461<br>(ČSN 56 0246-12)   | Food, feed                         | D                               |

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|-----------------------------------|--|--|---|---------------------------------------|
| 9.13 <sup>1</sup>                 | Determination of relative density of liquids by pycnometer   | CZ_SOP_D06_09_462<br>(ČSN EN 1131)   | Low viscosity liquids   | D                                     |
| 9.14 <sup>1</sup>                 | Titrimetric determination of acidity   | CZ_SOP_D06_09_463<br>(ČSN ISO 750;<br>ČSN 56 0116;<br>ČSN 57 0530;<br>ČSN EN 12147;<br>ČSN 56 0246-13) | Fruit juices, fruit and vegetable products, mayonnaise, water-soluble food, dairy products, bakery products | D                                     |
| 9.15 <sup>1</sup>                 | Determination of moisture content – distillation method  | CZ_SOP_D06_09_464<br>(ČSN ISO 939)   | Spices, mixed condiments  | D                                     |
| 9.16 <sup>1</sup>                 | Determination of dietary fibre enzymatically by commercial set Megazym   | CZ_SOP_D06_09_465<br>(AOAC Method 985.29)  | Food, dietary supplements   | D                                     |
| 9.17 <sup>1</sup>                 | Determination of starch content by polarimetry   | CZ_SOP_D06_09_466<br>(ČSN 46 7092-21)  | Cereals, baking products, cereal feeds  | D                                     |
| 9.18 <sup>1</sup>                 | Determination of chloride by coulometric titration   | CZ_SOP_D06_09_467<br>(O.K. SERVIS company<br>Chloride Analyser manual)                                 | Food, feed, dietary supplements   | D                                     |
| 9.19 <sup>1</sup>                 | Determination of reducing sugars and total sugars after iodometric inversion and calculation of non-reducing sugars from measured values | CZ_SOP_D06_09_468<br>(ČSN 56 0146)   | Food, feed, dietary supplements   | D                                     |
| 9.20 <sup>1</sup>                 | Determination of alkalinity of water-soluble ash by titration  | ČSN ISO 1578   | Tea   | D                                     |
| 9.21 <sup>1</sup>                 | Gravimetric determination of total ash   | ČSN ISO 1575   | Tea   | D                                     |
| 9.22 <sup>1</sup>                 | Determination of ash soluble and insoluble in water gravimetrically  | ČSN ISO 1576   | Tea   | D                                     |
| 9.23 <sup>1</sup>                 | Gravimetric determination of acid-insoluble ash  | ČSN ISO 1577   | Tea   | D                                     |
| 9.24 <sup>1</sup>                 | Gravimetric determination of water extract   | ČSN ISO 9768   | Tea   | D                                     |
| 9.25 <sup>1</sup>                 | Gravimetric determination of loos in mass at 103 °C  | ČSN ISO 1573   | Tea   | D                                     |
| 9.26 <sup>1</sup>                 | Determination of total nitrogen by Dumas method by analyser and protein calculation from measured values                                 | CZ_SOP_D06_09_475<br>(ČSN EN ISO 14891;<br>ČSN EN ISO 16634-1;<br>ČSN EN ISO 16634-2)                  | Food, feed, dietary supplements   | D                                     |
| 9.27 <sup>1</sup>                 | Volumetric determination of volatile oils (essential oils) by distillation with steam  | ČSN EN ISO 6571  | Spices, spicing agents, herbs   | D                                     |

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| 9.28 <sup>1</sup>                 | Determining the weight, volume and number of pieces of retail packaging of food and feed products by gravimetry     | CZ_SOP_D06_09_477<br>(ČSN 560305;<br>ČSN 570146-3;<br>ČSN 580170-3)  | Food, feed, dietary supplements   | D                                     |
| 9.29 <sup>1</sup>                 | Determination of the meat content in meat products and products containing meat by calculation from measured values | CZ_SOP_D06_09_478<br>(Commission Directive No. 2001/101/EC;<br>Commission Regulation No. 2004/2002/EC;<br>Commission Regulation No. 2429/86/EEC;<br>Decree 330/2009 Coll.) | Meat products   | D                                     |
| 9.30 <sup>1</sup>                 | Determination of carbohydrates and energy values by calculation from measured values                                | CZ_SOP_D06_09_479<br>(Regulation (EU) 1169/2011,<br>Decree 330/2009 Coll.)   | Food, raw materials for production of food, dietary supplements                   | D                                     |
| 9.31 <sup>1</sup>                 | Determination of non-protein contents substances by calculation   | ČSN 46 7092-24   | Feed  | D                                     |
| 9.32 <sup>1</sup>                 | Determination of 4-hydroxyproline by spectrophotometry and calculation of collagen from measured values             | CZ_SOP_D06_09_481<br>(ISO 3496)  | Meat products   | D                                     |
| 9.33 <sup>1</sup>                 | Determination of fat content by NMR method  | CZ_SOP_D06_09_482<br>(Journal of AOAC International vol 88, No.1, 2005;<br>Journal of AOAC International vol 86, No. 6, 2003)  | Selected food and raw materials for production of food, feed, dietary supplements | D                                     |
| 9.34 <sup>1</sup>                 | Volumetric determination of peroxide value  | CZ_SOP_D06_09_483<br>(ČSN EN ISO 3960)   | Fat, vegetable oils   | D                                     |
| 9.35 <sup>1</sup>                 | Determination of water activity by capacitive sensors method  | ČSN ISO 18787  | Food, raw materials for production of food, dietary supplements                   | D                                     |
| 9.36 <sup>1</sup>                 | Determination of pure protein by the Dumas method and pure muscle protein by calculation from measured values       | CZ_SOP_D06_09_485<br>(Decree 69/2016 Sb.)  | Meat, meat products   | D                                     |
| 9.37 <sup>1</sup>                 | Identification of synthetic dyes by thin-layer chromatography method  | CZ_SOP_D06_09_486<br><br>(Prof. Ing. Jiří Davídek, DrSc et al, Laboratory Manual of Food Analysis)   | Food  | A, B, D                               |
| 9.38 <sup>1</sup>                 | Determination of piperine content by spectrophotometry  | ČSN ISO 5564   | Black pepper and white pepper, whole or ground                                    | D                                     |

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|-----------------------------------|--|--|--|---------------------------------------|
| 9.39 <sup>1</sup>                 | Determination of starch in meat products by titration                  | CZ_SOP_D06_09_488<br>(BS 4401 Part 12:1979<br>Determination of Starch Content of Meat Products)  | Meat products  | D                                     |
| 9.40 <sup>1</sup>                 | Determination of total sulphur dioxide after distillation by titration | CZ_SOP_D06_09_489<br>(Prof. Ing. Jiří Davídek, DrSc et al, Laboratory Manual of Food Analysis)   | Food and raw materials for food production, dietary supplements      | D                                     |
| 9.41 <sup>1</sup>                 | Determination of total sulphur dioxide after distillation by ITP       | CZ_SOP_D06_09_489<br>(Prof. Ing. Jiří Davídek, DrSc et al, Laboratory Manual of Food Analysis;<br>SNTL 1981;<br>Application sheet no. 33 Villa Labeco) | Food and raw materials for food production, dietary supplements      | D                                     |
| 9.42 <sup>10</sup>                | Sensory testing – description test                                     | CZ_SOP_D06_09_490<br>(ČSN ISO 6658;<br>ČSN EN ISO 8589;<br>ČSN EN ISO 13299;<br>ČSN ISO 13300-1;<br>ČSN ISO 13300-2)                                   | Food, cosmetics, packaging materials for food, article of common use | D                                     |
| 9.43 <sup>10</sup>                | Sensory testing – comparison to standard                               | CZ_SOP_D06_09_491<br>(ČSN ISO 6658;<br>ČSN ISO EN 8589;<br>ČSN EN ISO 13299;<br>ČSN ISO 13300-1;<br>ČSN ISO 13300-2)                                   | Food, cosmetics, packaging materials for food, article of common use | D                                     |
| 9.44 <sup>10</sup>                | Assessment of characteristics of food                                  | CZ_SOP_D06_09_492<br>(ČSN EN ISO 8589;<br>ČSN EN ISO 13299;<br>ČSN ISO 13300-1<br>ČSN ISO 13300-2)   | Food   | D                                     |
| 9.45 <sup>1</sup>                 | Determination of density-by-density meter                              | CZ_SOP_D06_09_493<br>(ČSN 57 0530)   | Milk and milk products   | D                                     |
| 9.46 <sup>1</sup>                 | Determination of sugars by ion chromatography method with EC detection | CZ_SOP_D06_09_494<br>(ČSN EN 12630)  | Food, feed, dietary supplements                                      | A, B, D                               |
| 9.47 <sup>1</sup>                 | Determination of ethanol after distillation by gravimetry              | CZ_SOP_D06_09_495<br>(ČSN 56 0186-5;<br>ČSN 56 0210;<br>ČSN 56 0216)   | Alcoholic beverages  | D                                     |

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| Ordinal number <sup>1</sup> | Test procedure / method name   | Test procedure / method identification <sup>2</sup>   | Tested subject                              | Degrees of freedom <sup>3</sup> |
|-----------------------------|--|---|---|---------------------------------|
| 9.48 <sup>1</sup>           | Determination of soluble solids and refractive index by refractometry                                      | CZ_SOP_D06_09_496<br>(ČSN 56 0240-3, ISO 2173)  | Food  | D                               |
| 9.49 <sup>1</sup>           | Determination of nitrate and nitrite content by ion chromatography with UV detection                       | CZ_SOP_D06_09_497<br>(Dionex Application list 112, Thermo Scientific application list 73450)  | Food, feed, by-products of sugar production | D                               |
| 9.50 <sup>1</sup>           | Determination of total sulfur dioxide after distillation by ion chromatography with conductivity detection | CZ_SOP_D06_09_498<br>(Specification sheet of ion exchange columns AS11 and AS11-HC;<br>Prof. Ing. Jiří Davídek, DrSc et al, Laboratory Manual of Food Analysis) | Food, feed, dietary supplement, premixes    | D                               |

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

**Specification of the scope of accreditation:**

| Ordinal test number          | Detailed information on activities within the scope of accreditation (determined analytes)  |
|------------------------------|---|
| 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 | <b>Elements</b> - 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   |
| 1.1, 1.2, 1.7                | <b>Calculation forms of elements</b> – sum of Na + K, ionic form Cr and Fe (Cr <sup>3+</sup> , Fe <sup>3+</sup> ), compounds Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>3</sub> a SiO <sub>2</sub> , according to CZ_SOP_D03_02  |
| 1.2                          | <b>Stoichiometric calculation</b> - ion form Cr <sup>3+</sup> , compound PO <sub>4</sub> <sup>3-</sup> , according to CZ_SOP_D03_02   |
| 1.3, 1.4, 1.9, 1.10          | <b>Stoichiometric calculation</b> – compound NaCl according to CZ_SOP_D03_02  |
| 1.7                          | <b>Elements</b> - 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, Hg, Ho, I, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr |
| 1.8                          | <b>Elements</b> - 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, Nb, Nd, Ni, 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           |



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|----------------------|---|
| 1.9                  | <b>Elements</b> - 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  |
| 1.10                 | <b>Elements</b> - 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  |
| 1.11                 | <b>Elements</b> - Ag, Al, As, Au, Ba, Be, Bi, Br (water extractable), Ca, Cd, Co, Cr, Cr(VI), Cu, Fe, I (water extractable), K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, Pt, Rh, Sb, Se, Sn, Sr, Te, Ti, Tl, U, V, Zn, Zr   |
| 1.12                 | <b>Elements</b> - Ag, Al, As, Au, B, Ba, Be, Bi, Br (loužitelný vodou) Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hg, Ho, I (loužitelný vodou) 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  |
| 1.15, 1.16           | <b>Elements</b> - Ag, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, Pb a Zn  |
| 1.17, 1.18           | <b>Elements</b> - 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 a Zr  |
| 1.24                 | <b>Elements</b> - As, Cd, Co, Cr, Ni, Pb, Sb  |
| 1.95                 | <b>CO<sub>2</sub> forms</b> - carbonates, bicarbonates, free CO <sub>2</sub> , total CO <sub>2</sub> , aggressive CO <sub>2</sub>   |
| 2.5                  | <b>Volatile organic compounds</b> – 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-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-Dibromoethane, 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, 2.2-Dichloropropane, 2-Butanol, 2-Butanone, 2-Butoxyethyl Acetate, 2-Ethylhexanol, 2-Ethyltoluene, 2-Chlorotoluene, 2-Methylhexane, 2-Methyl-1-Butanol, 2-Propanol, 3-Ethyltoluene, 3-Carene, 4-Ethyltoluene, 4-Phenylcyclohexene, 4-Chlorotoluene, 4-Isopropyltoluene, Acetone, alpha- Pinene, alpha-Terpinene, Benzene, beta-Pinene, Bromobenzene, Bromodichloromethane, Bromochloromethane, Bromomethane, Bromoform, cis-1.2- Dichlorethene, cis-1.3-Dichlorpropene, Cyclohexane, Cyclohexanone, Diacetone Alcohol, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Dichloromethane, Ethanol, Ethyl Acetate, Ethyl tert-Butyl Ether (ETBE), Ethylbenzene, Hexachlorobutadiene, Hexanal, Chlorobenzene, Chloroethane, Chloromethane, Chloroform, Isobutyl Acetate, Isobutanol, Isooctane, Isopropylbenzene, Limonene, Methanol, Methyl tert- Butyl Ether, Methylcyclohexane, Methylcyclopentane, Methyl iso-butyl Ketone, Methylmercaptan, Dimethylmercaptan, 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-Propanol, n-Propylbenzene, n-Tetradecane, n-Tridecane, n-Undecane, o-Xylene, p-Xylene, Petroleum Hydrocarbons, sec-Butylbenzene, Styrene, tert-Butyl Acetate, tert-Butylbenzene, Tetrahydrofurane, Tetrachloroethene, Tetrachloromethane, Toluene, trans- 1.2- Dichloroethene, trans-1.3-Dichloropropylene, Trichloroethene, Trichlorofluoromethane, Vinyl Acetate, Vinyl Chloride, Sums calculation according to CZ_SOP_D03_02 |
| 2.6                  | <b>Aldehydes, ketones</b> - formaldehyde, acetaldehyde, propionaldehyde, crotonaldehyde, methacrolein, butyraldehyde, benzaldehyde, valeraldehyde, m-tolualdehyde, n-hexanealdehyde   |
| 2.7, 2.8, 2.76, 2.77 | <b>Volatile organic compounds</b> – 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-Dibromoethane, 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-2-Methylbenzene, 1-Ethyl-2-Methylbenzene, 1-Ethyl-3-Methylbenzene, 1-Ethyl-4-Methylbenzene, 2-butanone (methyl isobutyl ketone-MEK), 2.2-  |

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|---------------------|--|
|                     | 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, Cyclohexane, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Dichloromethane, Diisopropyl ether, Ethanol, Ethylbenzene, Ethyl tert-Butyl Ether (ETBE), Hexachlorobutadiene, Chlorobenzene, Chloroethane, Chloromethane, Chloroform, Indane, Isobutanol, Isobutyl Acetate, Isopropylbenzene, Methyl ethyl ketone, Methyl isobutyl ketone, Methyl tert-Butyl Ether (MTBE), m-Xylene, Naphthalene, n-Butanol, n-Butyl Acetate, n-Butylbenzene, n-Hexane, n-Propylbenzene, o-Xylene, p-Isopropyltoluene, p-Xylene, sec-Butanol, sec-Butyl Acetate, sec- Butylbenzene, Styrene, TAEE, TBA, tert-Amyl Methyl Ether, tert-Butanol, tert-Butyl Acetate, tert-Butylbenzene, Tetraethyl lead, Tetrahydrofuran, Tetrahydrothiophene, Tetrachloroethene, Tetrachloromethane, Toluene, total VOC, trans-1.2-Dichloroethene, trans-1.3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride, Aliphates >C5-C6, Aliphates >C6-C8, Aromatics C6-C7, Aromatics >C7-C8, Aromatics >C8-C10, Aromatics >C5- C9, Aromatics >C9-C10, Fraction >C5-C10, Sums calculation according to CZ_SOP_D03_02   |
| 2.9, 2.10           | <b>Volatile organics compounds</b> – 1.1-Dichloroethene, 1.2-Dichloroethane, 1.4-Dioxane, Benzene, Dichloromethane, Ethylbenzene, fraction of hydrocarbons C5(C6)-C12, cis-1.2-Dichloroethene, Chloroform, m-Xylene, Naphthalene, o-Xylene, p-Xylene, Styrene, Tetrachloroethene, Tetrachloromethane, Toluene, trans-1.2-Dichloroethene, Trichloroethene, Vinyl chloride, Sums calculation according to CZ_SOP_D03_02  |
| 2.11, 2.12          | <b>Organic contaminants</b> – aliphates >C5-C8, aliphates >C8-C10, benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, MTBE (methyl-terc- butylether), 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_D03_02 |
| 2.13, 2.14          | <b>Phenols, chlorinated phenols and cresols</b> – 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, 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_D03_02  |
| 2.15                | <b>Cannabinoids</b> - 9(S)-Hexahydrocannabinol (9(S)-HHC ), 9(R)-Hexahydrocannabinol (9(R)-HHC ), Cannabidiol (CBD), Cannabichromene (CBC), Delta-9-tetrahydrocannabinol (Delta-9-THC), Delta-9- tetrahydrocannabinolic acid – A (Delta-9-THCA-A), Delta-8- tetrahydrocannabinol (Delta -8-THC), Cannabigerol (CBG), Cannabinol (CBN), Cannabidiolic acid (CBDA), Delta-9- tetrahydrocannabinolic acid – (A Delta-9-THCA-A), Cannabigerolic acid (CBGA), Cannabidivarin (CBDV) , delta-9-tetrahydrocannabivarin (Delta-9-THCV), Cannabidivarinic acid (CBDVA), Cannabichromenic acid (CBCA), tetrahydrocannabivarinic acid (THCVA), sums calculation according to CZ_SOP_D03_02  |

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|------------------------|---|
| 2.16, 2.17             | <b>Phthalates</b> – dimethylphthalate, diethylphthalate, di-n-propylphthalate, di-n-butylphthalate, diisobutylphthalate, dipentylphthalate, 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  |
| 2.18, 2.19             | <b>Phenols and cresols</b> – 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_D03_02   |
| 2.19                   | <b>Alkylfenols, alkylphenol ethoxylates</b> - 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_D03_02   |
| 2.20, 2.21             | <b>Semi-volatile organic compounds</b> – acenaphthene, acenaphthylene, anthracene, benzo-(a)-anthracene, benzo-(a)-pyrene, benzo-(a)-fluoranthene, benzo-(b)- fluoranthene, benzo(e)pyrene, benzo-(g,h,i)-perylene, benzo-(k)-fluoranthene, biphenyl, dibenzo-(a,h)-anthracene, diphenyl ether, phenanthrene, fluoranthene, fluorine, chrysene, indenopyrene, naphthalene, pyrene, perylene, hexachlorobutadiene, hexachloroethane, aldrin, o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT, dieldrin, $\alpha$ -endosulphane, $\beta$ -endosulphane, endrin, telodrin, isodrin, heptachlor, cis-heptachloroepoxide, trans-heptachloroepoxide, $\alpha$ - HCH, $\beta$ -HCH, $\gamma$ -HCH, $\delta$ -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, $\epsilon$ -HCH, octachlorstyrene, di- n-butylphthalate, bis(2-ethylhexyl) phthalate (DEHP), endosulfan-sulphate, mirex, cis-chlordane, trans-chlordane, oxychlordane, cis-nonachlor, trans- nonachlor, PBB 153, pentachlortoluene, benzylalkohol, acetofenon, 6-kaprolaktam, izoforon, anilin, difenylamin, 4-chloranilin, benzidin, 4-bromfenylfenyl ether, karbazol, bifenyl, 2-chlornaftalen, 1-chlornaftalen, 2-methylnaftalen, 4-chlorfenylfenyl ether, dibenzofuran, bis(2-chlorethyl)ether, bis(2- chlorethoxy)methan, bis(2-chlorisopropyl)ether (všechny izomery), fenol, 2-methylfenol, 3-methylfenol, 3- & 4-methylfenol, 4-methylfenol, 2,4- dimethylfenol, 4-chlor-3-methylfenol, hexachlorcyklopentadien, nitrobenzen, 2-nitrofenol, 4-nitrofenol, 2,4-dinitrotoluen, 2,6-dinitrotoluen, 2,4-dinitrofenol, 4,6-dinitro-2-methylfenol, 2-nitroanilin, 3-nitroanilin, 4,2-nitroanilin, N-nitrosodimethylamin, N-nitrosodi-n-propylamin, dinoseb, dimethylftalát, diethylftalát, butylbenzylftalát, bis(2-ethylhexyl)ftalát, di-n-oktylftalát, sums calculation according to CZ_SOP_ D03_02 |
| 2.22, 2.23, 2.24, 2.26 | <b>Polycyclic aromatic hydrocarbons</b> – 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_ D03_02  |
| 2.25                   | <b>Glycols</b> - 1,2-propandiol, monopropylenglycol (as C), ethylenglycol, ethylenglycol (as C), 1,3-butandiol, diethylenglycol, diethylenglycol (as C), triethylenglycol, triethylenglycol (as C)  |
| 2.27                   | <b>Polychlorinated biphenyls</b> – PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, PCB194, sums calculation according to CZ_SOP_D03_02  |
| 2.28, 2.30             | <b>Polychlorinated biphenyls</b> - PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, sums calculation according to CZ_SOP_ D03_02   |
| 2.31, 2.32             | <b>Organochlorine pesticides and other halogenated substances</b> – 1,2,3,4-tetrachlorbenzen, 1,2,3,5-tetrachlorbenzen, 1,2,4,5-tetrachlorbenzen, 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)ftalát (DEHP), cis-heptachlorperoxid, cis-chlordan, cis-nonachlor, dieldrin, dichlobenil, dicofol, endosulfan-sulfát, endrin, endrin aldehyde, endrin ketone, heptachlor, hexabrombifenyl (PBB 153), hexachlorbenzen, hexachlorbutadien, hexachlorethan, isodrin, methoxychlor, mirex, oktachlorstyren, oxychlordan, pentachloraniline, pentachlorbenzen, quintozene, telodrin (isobenzan), tetradiphone toxafen, trans-heptachlorperoxid, trans-chlordan, trans-nonachlor, trifluralin, $\alpha$ -endosulphan, $\alpha$ -HCH, $\beta$ -endosulphan, $\beta$ -HCH, $\gamma$ -HCH (Lindan), $\delta$ -HCH, $\epsilon$ -HCH, sums calculation according to CZ_SOP_ D03_02   |

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**Subject number 1163, ALS Czech Republic, s.r.o.**

Na Harfě 333/9, 190 00 Praha 9 - Vysočany

| Ordinal test number  | Detailed information on activities within the scope of accreditation (determined analytes)   |
|--|--|
| 2.35, 2.36, 2.42, 2.43, 2.44, 2.45, 2.46, 2.47, 2.48, 2.49, 2.50 | <b>PCDD/PCDF</b> - 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  |
| 2.37, 2.38, 2.39, 2.40, 2.41, 2.56                               | <b>PCB</b> - 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   |
| 2.51, 2.52, 2.53, 2.54   | <b>BFR</b> - tri-BDE28, 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, okta-BDE-203, deka-BDE-209, PBB3, PBB15, PBB18, PBB52, PBB101, PBB153, PBB180, PBB194, PBB206, PBB209 and sums calculation according to CZ_SOP_D06_06_J03  |
| 2.55   | <b>Alkylphenols, alkylphenoethoxylates</b> - 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_D03_02  |
| 2.57, 2.58, 2.59, 2.60, 2.61                                     | <b>Polycyclic aromatic hydrocarbons</b> – 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, dibenzo-(a,l)-pyrene, dibenzo-(a,e)-pyrene, dibenzo-(a,i)-pyrene dibenzo-(a,h)-pyrene and sums calculation according to CZ_SOP_D06_06_J03  |
| 2.62   | <b>Semi volatile organic compounds</b> – naphthalene, acenaphthylene, 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, 2,4-DDD, 2,4-DDE, 2,4-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-endosulfan, beta-endosulfan, dieldrin, heptachlor, heptachlor epoxide-cis, heptachlor epoxide-trans, hexachlorobenzene, (HCB), hexachlorobutadiene, HCH alpha, HCH beta, HCH gamma, hexachloroethane, isodrine, pentachlorobenzene, telodrin sums calculation according to CZ_SOP_D03_02   |
| 2.63   | <b>Acid herbicides, drug residues and other pollutants</b> – 2-methylsulfonyl-4-trifluoromethyl benzoic acid, 2,3,6-trichlorobenzoic acid, 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,4-DP (isomers), 3,5,6-trichloro-2-pyridinol, 4-CPP, 6-chloroquinoxalin-2,3-diol, acifluorfen, aminopyralid, benazolin, bentazone, Bromo dichloroacetic acid, Bromo chloroacetic acid, bromoxynil, caffeine, clopyralid, dibromo acetic acid, dibromo chloroacetic acid, dichloroacetic acid, dicamba, dichloroprop-P, diclofenac, diclofop, dinoseb, dinoterb, DNOC, fluroxypyr, ibuprofen, ioxynil, MCPA, MCPB, MCPP, MCPP (isomers), mecoprop-P, metribuzin-desamino, metribuzin-desamino diketo, monobromoacetic acid, monochloroacetic acid, paraxanthine, picloram, propoxycarbazone-sodium, salicylic acid, tribromo acetic acid, trichloroacetic acid, triclopyr, triclosan, sums calculation according to CZ_SOP_D03_02 |
| 2.64   | <b>Acid herbicides and drug residues</b> – 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP (isomers), 4-CPP, acifluorfen, bentazone, bromoxynil, dicamba, diclofop, dinoseb, DNOC, fluroxypyr, ioxynil, MCPA, MCPB, MCPP (isomers), propoxycarbazone-sodium, triclopyr, triclosan, sums calculation according to CZ_SOP_D06_03_J02  |
| 2.65   | <b>Pesticides, pesticide metabolites, drug residues and other pollutants</b> – 1,2,4-triazol, 1-(3,4-dichlorophenyl) urea (DCPU), 1H-benzotriazol, 1-methyl-1H-benzotriazol, 2-aminobenzothiazol, 2-amino-4-methoxy-6-methyl-1,3,5-triazin, 2-amino-N-(isopropyl)benzamide, 2-chloro-2,6-diethylacetanilid, 2-hydroxybenzothiazol, 2-  |

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**Subject number 1163, ALS Czech Republic, s.r.o.**

Na Harfě 333/9, 190 00 Praha 9 - Vysočany

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes)   |
|---------------------|--|
|                     | <p>hydroxycarbamazepine, 2-isopropyl-6-methyl-4-pyrimidinol, 2-methylbenzothiazol, 2-methylmercaptobenzothiazol, , 3,4-dichloroaniline (DCA), 3,5,6-trichloro-2-pyridinol, 3-chloro-4-methylaniline, 3-hydroxycarbamazepine, 5-methyl-1H-benzotriazol, 6-chloronicotinic acid, , acesulfam K, acetamidrid, acetochlor, acetochlor ESA, acetochlor OA, acibenzolar-S-methyl, aclonifen, acrinathrin, acrylamid, alachlor, alachlor ESA, alachlor OA, aldicarb, aldicarb sulfone, aldicarb sulfoxide, aldoxycarb, allethrin, anastrozole ametrine, amidithion, amidosulfuron, amitraz, anilazin, asulam, atraton, atrazin, atrazin-2-hydroxy, atrazin-desethyl, atrazin-desethyl-desisopropyl, atrazin-desisopropyl, atenolol, azaconazole, azathioprin, azinfos-ethyl, azinfos-methyl, azoxystrobin, azoxystrobin isopyrazam, azoxystrobin o-demethyl, BAM (2,6-dichlorobenzamide), BDMC, benalaxyl, bendiokarb, benfuracarb, bentazone, bentazone methyl, beta-cyfluthrin, bezafibrat, bifenox, bifenthrin, bitertanol, boskalid, brodifacoum, bromacil, bromadiolon, bromofos-ethyl, bromoxynil, buprofezin, buprenorfin, butorfanol, cadusafos, ciprofloxacin, citalopram, clofentezin, coumafos, cyanazine, cyfenothrin, cyflufenamid, cyclamate, cyclobenzaprin, cyclofosamid, cymoxanil, cypermethrin, cyprazin, cyprodinil, cyproconazole, cyromazin, DEET, deltamethrin, demedifam, desmetryn, diazepam, diazinon, diethofencarb, difenacoum, difenoconazole, difenoxuron, diflubenzuron, diflufenican, dichlofenthion, dichlormid, dichlorvos, diclofenac, dicotophos, diquat, dimefuron, dimethachlor, dimethachlor CGA 369873, dimethachlor CGA 373464, dimethachlor ESA, dimethachlor OA, dimethenamid, dimethenamid ESA, dimethenamid OA, dimethenamid-P, dimethylaminosulfanilid, dimethoate, dimetomorph, dioxystrobin, diuron, diuron desmethyl (DCPMU), enalapril, epoxiconazole, EPTC, ethiofencarb, ethion, ethofumesate, ethoprophos, ethoxazol, famoxadon, famphur, fenamiphos, fenamiphos sulfon, fenamiphos sulfoxide, fenarimol, fenhexamide, fenmedifam, fenothiocarb, fenothrin, fenoxaprop, fenoxycarb, fenpropathrin, fenpropidin, fenpropimorf, fensulfothion, fenuron, fipronil, fipronil sulfon, florasulam, floxetin, fluazifop, fluazifop-butyl, fluazifop-butyl (isomers), fluazifop-P, fluazifop-p-butyl, fluzinam, fludioxonil, flufenacet, flufenacet ESA, flufenacet OA, fluometuron, fluopicolid, fluopyram, fluquinconazole, flusilazol, flutamid, flutolanil, fluxapyroxad fonofos, foramsulfuron, phorate, phosalone, phosphamidon, phosmet, phosmet-oxon, phosthiazate, furalaxyl, furathiokarb, furosemid, gabapentin, gemfibrozil, guanylurea, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-p-methyl, hexaconazole, hexazinon, hexythiazox, hydrochlorothiazid, chloramfenicol, chlorantraniliprol, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlormequate, chlorotoluron, chloroxuron, chlorpropham, chlorpyriphos, chlorpyriphos-methyl, chlorosulfuron, chlorotoluron-desmethyl, ifosfamide, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, indomethacin, indoxacarb, iodosulfuron methyl, iohexol, iomeprol, iopamidol, iopromid, iprodion, iprovalicarb, irgarol, isofetamid, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, isopyrazam, isoxaflutol, isoxaflutol diketonitril, capecitabin, carbamazepin, carbamazepin 10,11-epoxide, carbamazepin 10,11-dihydro-10-hydroxy, carbamazepin 10,11-dihydroxy, carbaryl, carbendazim, carbetamid, carbofuran, carbofuran (sum), carbofuran-3-hydroxy, carboxin, carfentrazone-ethyl, ketoprofen, clodinafop, clodinafop propargil, clomazon, clomeprop, clothianidin, caffeine, cresoxim-methyl, crimidin, amidotrizoic acid, clofibrac acid, lambda-cyhalothrin, lenacil, lincomycine, linuron, loperamid, malaoxon, malathion, mandipropamid, MCPA, MCPP, mefenpyr-diethyl, mefentrifluconazole, mevarbam, mepiquate metsulfuron-methyl, mesosulfuron- methyl, mesotrion, metalaxyl (isomery), metamidron, metazachlor, metazachlor ESA, metazachlor metabolite 479M09, metazachlor metabolit 479M11, metazachlor OA, metformin, methabenzthiazuron, methaldehyd, methamidophos, methidathion, methiocarb, methiocarb sulfon, methiocarb sulfoxide, methomyl, methomyl oxim, methoprolol, methoprotrothrin methoxyfenozid, metconazole, metobromuron, metolachlor, metolachlor (isomers), metolachlor (S), metolachlor CGA 368208, metolachlor ESA, metolachlor NOA 413173, metolachlor OA, metoxuron, metrafenone, metribuzin, metribuzin-desamino, metribuzin-desamino diketo, metribuzin-diketo, metrodinazol, molinate, monocrotophos, monolinuron, monuron, myklobutanil, mycophenolate mofetil, napropamid, naphthalame, naproxen, neburon, nicosulfuron, N,N-Dimethylsulfamid, norflurazon, nuarimol, omethoate, oxadiazon, oxadixyl, oxamyl, oxyfluorfen, oxazepam, paclobutrazol, paclitaxel, paracetamol (acetaminofen), paraquate, paraoxon-ethyl, paraoxon-methyl, parathion-ethyl, pencycuron, pendimethalin, penconazole, permethrine, pethoxamide, pethoxamide ESApicloram, picoxystrobin, picolinafen, pirimiphos-ethyl, pirimiphos-methyl, pirimicarb, piroxicam, p-isopropylaniline, pretilachlor,</p> |

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|---------------------|---|
|                     | <p>primisulfuron-methyl, prodiamin, profam, profenophos, prochloraz, promecarb, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propanil, propanolol, propaquizafop, propargite, propazine, propazine-2-hydroxy, propiconazole, propoxur, propoxycarbazone-sodium, propylene thiourea, propyzamide, prosulfocarb, prothioconazole, pyraclostrobin, pyribenzoxim, pyridaben, pyrifenoxy, pyrimethanil, pyriproxyfen, quinalphos, quinclorac, quinmerac, quinoxifen, quizalofop, quizalofop-p-ethyl, rimsulfuron, saccharine, salbutamol, sebuthylazine, secbumeton, sedaxan, sertralin, sethoxymid, siduron, simazine, simazine-2-hydroxy, simazine-desethyl, simetryn, sotalol, spinosad (spinosyn A + spinosyn D), spiroxamin, sulfamethazine, sulfamethoxazol, sulfosulfuron, tau-fluvalinate, tebufenpyrad, tebuconazole, tebutiuron, teflubenzuron, tefluthrin, terbumeton, terbumeton-desethyl, terbutalin, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, tetraconazole tetramethrin, thebain, thiabendazol, thiachloprid, thiametoxam, thiazafuron, thidiazuron, thifensulfuron-methyl, thiobencarb, thiofanate-methyl, tolcofos-methyl, tramadol, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl, tricyclazol, trietazin, trifloxystrobin, trifloxysulfuron sodium, triflumizol, triflumuron, triflusulfuron-methyl, triforin, trimethoprim, trinexapak-ethyl, triticonazole, tritosulfuron, valsartan, warfarin, zolpidem, zoxamide, sums calculation according to CZ_SOP_D03_02</p>   |
| 2.66                | <p><b>Pesticides, their metabolites and drug residues – matrices sediments, sludges, soil, rocks – 1-(3,4-Dichlorophenyl) urea (DCPU), 2-Chloro-2,6-diethylacetanilide, 2-amino-N-(isopropyl)benzamide, 6-chloronicotinic acid, acetamiprid, acetochlor, acetochlor ESA, acetochlor OA, acclonifen, alachlor, alachlor ESA, alachlor OA, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametryn, amidosulfuron, asulam, atraton, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desisopropyl, azaconazole, azinphos-methyl, azoxystrobin, azoxystrobin-o-demethyl, BAM, BDMC, benalaxyl, bentazone methyl, bifenox, bitertanol, boscalid, bromacil, bromophos-ethyl, buprofezin, carbaryl, cadusafos, carbendazim, carbofuran, carbofuran-3-hydroxy, carboxin, clodinafop, clodinafop propargyl, clofentezine, clomazone, clomeprop, clopyralid, clothianidin, coumaphos, crimidine, cyanazine, cybutryne (irgarol), cyflufenamid, cymoxanil, cyproconazole, cyprodinil, desmetryn, diazinon, dicotophos, difenacoum, difenoconazole, difenoxuron, diflubenzuron, diflufenican, dichlofenthion, dichlorimid, dichlorvos, dimefuron, dimethachlor, dimethachlor ESA, dimethachlor OA, dimethenamid, dimethoate, dimethomorph, dimethylaminosulfanilide, dimoxystrobin, diuron, diuron desmethyl (DCPMU), epoxiconazole, EPTC, ethion, ethofumesate, ethoprophos, etoxazole, famoxadone, famphur, fenamiphos, fenarimol, fenhexamid, fenothiocarb, fenoxaprop, fenoxycarb, fenpropidin, fenpropimorph, fensulfothion, fenuron, fipronil, fipronil sulfone, florasulam, fluazifop, fluazifop-p-butyl, fludioxonil, flufenacet, fluometuron, fluopicolide, fluopyram, fluquinconazole, flusilazole, flutolanil, fonofos, foramsulfuron, fosthiazate, furalaxyl, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-p-methyl, hexaconazole, hexazinone, hexythiazox, chlorbromuron, chlorfenviphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlorotoluron, chlorotoluron-desmethyl, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chlorsulfuron, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, indoxacarb, iprodione, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, kresoxim-methyl, lenacil, linuron, malaixon, malathion, mandipropamid, mecarbam, mephenpyr-diethyl, mesosulfuron-methyl, metalaxyl, metamitron, metazachlor, metazachlor ESA, metazachlor OA, metconazole, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb-sulfone, methiocarb-sulfoxide, methomyl, methomyl-oxime, methoxyfenozide, metobromuron, metolachlor (isomers), metolachlor ESA, metolachlor OA, metoxuron, metrafenone, metribuzin, metribuzin-desamino, metsulfuron-methyl, molinate, monocrotophos, monolinuron, monuron, myclobutanil, napropamide, naptalam, neburon, nicosulfuron, norflurazon, nuarimol, omethoate, oxadiazon, oxadixyl, oxamyl, oxyfluorfen, paclobutrazol, paraoxon-ethyl, paraoxon-methyl, parathion-ethyl, penconazole, pencycuron, pendimethalin, pethoxamid, phorate, phosalone, phosmet, phosmet-oxon, phosphamidon, picoxystrobin, pirimicarb, pirimiphos-ethyl, pirimiphos-methyl, primisulfuron-methyl, prodiamine, profenofos, prochloraz, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propanil, propaquizafop, propazine, propham, propiconazole, propoxur, propyzamide, prosulfocarb, pyraclostrobin, pyribenzoxim, pyridaben, pyrimethanil, pyriproxifen, quinalphos, quinclorac, quinmerac, quinoxifen, quizalofop, quizalofop-p-ethyl, rimsulfuron, sebuthylazine, sedaxane,</b></p> |

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|---------------------|---|
|                     | sethoxydim, siduron, simazine, simazine-2-hydroxy, simetryn, spiroxamine, tebuconazole, tebufenpyrad, tebuthiuron, teflubenzuron, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, thiachloprid, thiamethoxam, thiazafurion, thidiazuron, thiobencarb, tolclofos-methyl, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl, trietazine, trifloxystrobin, trifloxysulfuron-sodium, triflumizole, triflumuron, triflusulfuron-methyl, triticonazole, tritosulfuron, zoxamide, sums calculation according to CZ_SOP_D03_02   |
| 2.66                | <b>Pesticides, their metabolites and drug residues – matrices building materials, materials for building - 1-</b> (3.4-Dichlorophenyl) urea (DCPU), 2-Chloro- 2.6-diethylacetanilide, 6-chloronicotinic acid, acetamiprid, acetochlor, aclonifen, alachlor, aldicarb, ametryn, amidosulfuron, asulam, atraton, atrazine, atrazine- 2-hydroxy, atrazine-desethyl, atrazine-desisopropyl, azaconazole, azinphos-methyl, azoxystrobin, azoxystrobin-o-demethyl, BAM, benalaxyl, bentazone methyl, bifenox, bitertanol, boscalid, bromacil, bromophos-ethyl, buprofezin, cadusafos, carbendazim, carbofuran, carboxin, clofentezine, clomazone, clomeprop, clothianidin, coumaphos, crimidine, cyanazine, cybutryne (irgarol), cyflufenamid, cyproconazole, cyprodinil, desmetryn, diazinon, dicrotophos, difenacoum, difenoconazole, difenoxuron, diflubenzuron, diflufenican, dichlofenthion, dichlormid, dimefuron, dimethachlor, dimethenamid, dimethoate, dimethomorph, dimethylaminosulfanilide, dimoxystrobin, diuron, diuron desmethyl (DCPMU), epoxiconazole, EPTC, ethion, ethofumesate, ethoprophos, etoxazole, famphur, fenamiphos, fenarimol, fenhexamid, fenothiocarb, fenoxycarb, fenpropidin, fenpropimorph, fensulfothion, fenuron, fipronil, fipronil sulfone, florasulam, fluazifop, fluazifop-p-butyl, fludioxonil, flufenacet, fluometuron, fluopicolide, fluopyram, fluquinconazole, flusilazole, flutolanil, fonofos, foramsulfuron, furalaxyl, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-p-methyl, hexaconazole, hexazinone, hexythiazox, chlorbromuron, chlorfenviphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlorotoluron, chlorotoluron-desmethyl, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chlorsulfuron, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, lenacil, linuron, malathion, mandipropamid, mecarbam, mesosulfuron-methyl, metalaxyl, metamitron, metazachlor, metconazole, methabenzthiazuron, methidathion, methomyl, methomyl-oxime, methoxyfenozone, metabromuron, metolachlor (isomers), metoxuron, metrafenone, metribuzin, metribuzin-desamino, molinate, monolinuron, monuron, myclobutanil, napropamide, naptalam, neburon, nicosulfuron, norflurazon, nuarimol, oxadiazon, oxadixyl, oxyfluorfen, paclobutrazol, paraoxon-ethyl, parathion-ethyl, penconazole, pencycuron, pendimethalin, pethoxamid, phorate, phosalone, phosphamidon, picoxystrobin, pirimicarb, pirimiphos-ethyl, pirimiphos-methyl, prodiamine, prochloraz, prometon, prometryn, propachlor, propamocarb, propanil, propaquizafop, propazine, propham, propiconazole, propyzamide, prosulfocarb, pyraclostrobin, pyrimethanil, pyriproxifen, quinalphos, quinclorac, quinmerac, quinoxifen, quizalofop-p-ethyl, sebuthylazine, sedaxane, sethoxydim, siduron, simazine, simazine-2-hydroxy, simetryn, spiroxamine, tebuconazole, tebufenpyrad, tebuthiuron, teflubenzuron, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, thiachloprid, thiamethoxam, thiazafurion, thidiazuron, thiobencarb, tolclofos-methyl, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl, trietazine, trifloxystrobin, trifloxysulfuron-sodium, triflumizole, triflumuron, triflusulfuron-methyl, triticonazole, tritosulfuron, zoxamide, sums calculation according to CZ_SOP_D03_02 |
| 2.67                | <b>Pesticides, their metabolites and drug residues – 6-chloronicotinic acid, acetamiprid, acetochlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, amitraz, azoxystrobin, bifenthrin, boscalid, cadusafos, carbaryl, carbofuran, carbofuran-3-hydroxy, chlormequat, chlorpyrifos, clomazone, clothianidin, cyhalothrin (isomers), cypermethrin (isomers), cyproconazole, deltamethrin (isomers), diazinon, dichlorvos, dicrotophos, dimethoate, dimoxystrobin, diquat, epoxiconazole, fenoxycarb, fipronil, fipronil sulfone, imidacloprid, imidacloprid olefin, imidacloprid urea, indoxacarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, kresoxim-methyl, malaaxon, malathion, mepiquat, metazachlor, metconazole, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methomyl-oxime, paraquat, permethrin (isomers), pethoxamid, phosalone, phosmet, phosmet-oxon, phosphamidon, pirimicarb, prochloraz, propoxur, pyrimethanil, tau-fluvalinate, tebuconazole, thiachloprid, thiamethoxam, sums calculation according to CZ_SOP_D03_02</b>  |

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**ALS Czech Republic, s.r.o.**

**Subject number 1163, ALS Czech Republic, s.r.o.**

Na Harfě 333/9, 190 00 Praha 9 - Vysočany

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes)  |
|---------------------|---|
| 2.68                | <b>Pesticides by MS detection</b> - 2,6-dichloroaniline, azinphos-methyl, bromocyclen, bromophos-ethyl, butralin, captan, carbophenothion, chlorfenvinphos, chlorpyrifos, chlorpyrifos-methyl, cypermetrin (isomers), demeton-S-methyl, diazinon, dichlorvos, dimethoát, dimethypin, ethion, fenitrothion, fenthion, malathion, parathion-ethyl, parathion-methyl, phorat, phosmet, pirimfos-ethyl, prothiofos, teflutrin, výpočet sum dle CZ_SOP_D03_02  |
| 2.69                | <b>Pesticides and their metabolites by MS detection</b> – amitrole, AMPA, glufosinate, glufosinate ammonium, glyphosate, sums calculation according to CZ_SOP_D03_02  |
| 2.70                | <b>Pesticides and their metabolites by MS detection</b> – AMPA, glyphosate  |
| 2.71                | <b>Complexing substances</b> - EDTA, PDTA a NTA   |
| 2.72                | <b>Derivates of polycyclic aromatic hydrocarbons</b> – acridine, 9,10-anthracenequinone, benz[a]anthracene-7,12-dione, benzo[h]quinoline, 1,5- dinitronaphthalene, 9H-fluoren-9-one, 2-fluorencarboxaldehyde, 1-naphthalenecarboxaldehyde, 5,12-naphthacenedione, 1-nitronaphthalene, 5- nitroacenaphthene, 9-nitroanthracene, nitropyrene, nitrofluoranthene, 6-nitrobenzo(a)pyrene, 2-nitrofluorene, 9.10-phenanthrenequinone, phenanthridine   |
| 2.73, 2.74          | <b>Organic acids</b> – formic acid, acetic acid, caproic acid, butyric acid, isobutyric acid, lactic acid, propionic acid, valeric acid, isovaleric acid  |
| 2.75                | <b>Gases</b> – methane, ethane, ethylkene, acetylene  |
| 2.78, 2.79          | <b>Halogen compounds</b> - chloroalkanes C10-C13, C14-C17   |
| 2.80                | <b>Anilin and aniline derivates</b> – p-chloraniline  |
| 2.81                | <b>Chlorinated phenols</b> – 2-amino-4-chlorophenol   |
| 2.82                | <b>Drug residues</b> – anastrozole, atenolol, azathioprine, beclomethasone dipropionate, capecitabine, cyclosporin, cyproteron acetate, diazepam, fluticason propionate, loperamide hydrochloride, medroxyprogesterone acetate, megestrol acetate, methotrexate, methylprednisolone acetate, metronidazole, mometasone furoate, mycophenolate mofetil, paclitaxel, sotalol hydrochloride, tacrolimus, thebain, tramadol hydrochloride, triamcinolone acetonide, valsartan, zolpidem tartrate  |
| 2.84                | <b>Perfluorinated compounds</b> – Perfluorobutanoic acid (PFBA), Perfluoropentanoic acid (PFPeA), Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorooctanoic acid (PFOA), Perfluorononanoic acid (PFNA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnDA), Perfluorododecanoic acid (PFDoDA), Perfluorotridecanoic acid (PFTrDA), Perfluorotetradecanoic acid (PFTeDA), Perfluorohexadecanoic acid (PFHxDA), Perfluorooktadecanoic acid (PFOcDA), Perfluoropropane sulfonic acid (PFPrS), Perfluorobutane sulfonic acid (PFBS), Perfluoropentane sulfonic acid (PFPeS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorononane sulfonic acid (PFNS), Perfluorodecane sulfonic acid (PFDS), Perfluoroundecane sulfonic acid (PFUnDS), Perfluorododecane sulfonic acid (PFDoDS), Perfluorotridecane sulfonic acid (PFTrDS), 4:2 Fluorotelomeric sulfonate (4:2 FTS), 6:2 Fluorotelomer sulfonic acid (6:2 FTS), 8:2 Fluorotelomer sulfonic acid (8:2 FTS), 10:2 Fluorotelomeric sulfonate (10:2 FTS), Perfluorooctane sulfonamide (FOSA), N-Methyl perfluorooctane sulfonamide (MeFOSA), N-Ethyl perfluorooctane sulfonamide (EtFOSA), Perfluorooctane sulfonamidoacetic acid (FOSAA), N-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA), N-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA), 7H-perfluoroheptanoic acid (HPFHpA), Perfluoro-3,7-dimethyloctanoic acid (P37DMOA), N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE), N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE), PFCs Total Oxidizable Precursors (TOP) (M4), Hexabromocyclododecane (HBCD), Tertabromobisphenol-A (TBBP-A), perfluoro-4-methoxybutanoic acid (PFMBA), perfluoro-3-methoxypropanoic acid (PFMPA), 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF30UDs), 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS), 4,8-dioxa-3H-perfluorononanoic acid (DONA), 4,8-dioxa-3H-perfluorononanoic acid (ADONA), sodium 4,8-dioxa-3H-perfluorononanoate (NaDONA), 2,3,3,3-tetrafluoro-2-heptafluoropropoxy propionic acid (HFPO-DA), 2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA), 2H,2H,3H,3H-perfluorodecanoic acid ( FHpPA), 2H,2H-perfluorodecanoic acid (8:2 FTCA), 2H,2H-perfluorodecanoic acid (H2PFDA), 2H,2H,3H,3H-perfluorohexanoic |



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| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes)  |
|---------------------|---|
|                     | acid (3:3 FTCA), 2H,2H,3H,3H -perfluorooctanoic acid (5:3 FTCA), 2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnDA), 2H,2H-perfluorooctanoic acid (6:2 FTCA), 2H-perfluoro-2-octenoic acid (6:2 FTUCA ), 2H-perfluoro-2-decenoic acid (8:2 FTUCA), perfluoro(2-ethoxyethane)sulfonic acid (PFEESA), perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)   |
| 2.85                | <p><b>Perfluorinated compounds</b> – Perfluorobutanoic acid (PFBA), Perfluoropentanoic acid (PFPeA), Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorooctanoic acid (PFOA), Perfluorononanoic acid (PFNA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnDA), Perfluorodecanoic acid (PFDoDA), perfluorotridecanoic acid (PFTrDA), perfluorotetradecanoic acid (PFTeDA), perfluorohexadecanoic acid (PFHxDA), perfluorooctadecanoic acid (PFOcDA), perfluoropropane sulfonic acid (PFPrS), perfluorobutanesulfonic acid (PFBS), perfluoropentanesulfonic acid (PFPeS), perfluorohexanesulfonic acid (PFHxS), Perfluoroheptanesulfonic acid (PFHpS), Perfluorooctanesulfonic acid (PFOS), Perfluorononanesulfonic acid (PFNS), Perfluorodecanesulfonic acid (PFDS), Perfluoroundecanesulfonic acid (PFUnDS), Perfluorododecanesulfonic acid (PFDoDS), Perfluorotridecanesulfonic acid (PFTrDS), 4:2 fluorotelomer sulfonate (4:2 FTS), 6:2 fluorotelomer sulfonate (6:2 FTS), 8:2 fluorotelomer sulfonate (8:2 FTS), 10:2 fluorotelomer sulfonate (10:2 FTS), perfluorooctane sulfonamide (FOSA), N- methyl perfluorooctanesulfonamide (MeFOSA), N-ethyl perfluorooctanesulfonamide (EtFOSA), perfluorooctanesulfonamidoacetic acid (FOSAA), N-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA), N-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA), 7H-perfluoroheptanoic acid (HPFHpA), perfluoro- 3,7-dimethyloctanoic acid (P37DMOA), N-methyl perfluorooctanesulfonamidoethanol (MeFOSE), N-ethyl perfluorooctanesulfonamidoethanol (EtFOSE), hexabromocyclododecane (HBCD), tertabromobisphenol-A (TBBP-A), perfluoro-4-methoxybutanoic acid (PFMBA), perfluoro-3-methoxypropanoic acid (PFMPA), 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS), 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS), 4,8- dioxo-3H-perfluorononanoic acid (DONA), 4,8-dioxa-3H-perfluorononanoic acid (ADONA), sodium 4,8-dioxa-3H-perfluorononanoate (NaDONA), 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (HFPO-DA), 2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA), 2H,2H,3H,3H-perfluorodecanoic acid (FHpPA), 2H,2H-perfluorodecanoic acid (8:2 FTCA), 2H,2H-perfluorodecanoic acid (H2PFDA), 2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA), 2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA), 2H,2H ,3H,3H-perfluoroundecanoic acid (H4PFUnDA), 2H,2H-perfluorooctanoic acid (6:2 FTCA), 2H-perfluoro-2-octenoic acid (6:2 FTUCA), 2H-perfluoro-2-decenoic acid (8: 2 FTUCA), perfluoro(2-ethoxyethane)sulfonic acid (PFEESA), perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)</p> |
| 2.86                | <p><b>Volatile organic compounds</b> – Benzene, Toluene, Ethylbenzene, m-Xylene, p-Xylene, Styrene, o-Xylene, Methanol, Ethanol, Acetone, Benzene, Ethyl Acetate, Isobutanol, n-Butanol, 2-Butanol, Isobutyl Acetate, Butyl Acetate, tert-Butyl Acetate</p>   |
| 2.89                | <p><b>Drug residues</b> – 17-alfa-estradiol, 17-alpha-ethinylestradiol, 17-beta-estradiol, 2-hydroxycarbamazepin, 3-hydroxycarbamazepin, 4-hydroxydiclophenac, 6-monoacetylmorphine (6-MAM), alprazolam, amidotrizoic acid, amphetamine, amoxicillin, anastrozol, atenolol, atorvastatin, azathioprin, azithromycin, benzoylcegonin, benzylpenicillin, bezafibrat, bromazepam, buprenorphone, buprenorphine glucuronid, butorphanol, ciprofloxacin, clindamycin, cyclobenzaprin, cyclophosphamide, cyclosporin, citalopram, diazepam, diclophenac, doxycycline, EDDP (methadone metabolite), ephedrine, equilin, enalapril, erythromycine, estron, fexofenadine, fentanyl, floxetin, flumequine, flutamide, furosemid, gabapentin, galantamin, gemfibrozil, glimepirid, heroin, hydrochlorothiazid, hydromorfon, chloramphenicol, chlordiazepoxid, chlortetracycline, ibuprofen, ifosfamide, indomethacin, iohexol, iomeprol, iopamidol, iopromid, capecitabine, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine-10,11- epoxide, carprofen, ketamine, ketoprofen, clarithromycin, clonazepam, cloxacillin, codeine, caffeine, cocaethylene, cocaine, colchicinr, clofibrac acid, nalidixic acid, oxolinic acid, pipemidic acid, lincomycin, lomefloxacin, loperamid, LSD, LSD hydroxy, MBDB (N-metyl-1-(1,3-benzodioxol-5-yl)-2-butamin), MDA (3,4-methylenedioxyamphetamine), MDEA (3,4-methylenedioxy-N-ethylamphetamine), MDMA (3,4-metylendioxymethamphetamine), meloxicam, metadon,</p>  |

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|---------------------|--|
|                     | metacycline, metamphetamine, metformin, methotrexat, metoprolol, metronidazol, midazolam, morphine, mycophenolate mofetil, naproxen, nimesulid, nor buprenorphin, nor buprenorphin glucuronid, norfloxacin, ofloxacin, omeprazol, ormetoprim, ornidazol, oxazepam, oxcarbazepine, oxytetracycline, paclitaxel, paracetamol (acetaminofen), paraxanthine, piroxikam, procaine peniciline G, propranolol, roxithromycin, salbutamol, salicylic acid, sarafloxacin, sertraline, sotalol, sulfadiazin, sulfachlorpyridazine, sulfamerazine, sulfamethazine, sulfamethizol, sulfamethoxazol, sulfamethoxyypyridazine, sulfamonomethoxin, sulfathiazol, terbutalin, tetracyclin, tetrazepam, THC (delta-9-tetrahydrocannabinol), THC glucuronide, THC hydroxy, THCA-A (delta-9-tetrahydrocannabinol-2-carboxyl), THC-COOH (11-nor-9-carboxy-THC), thebain, tramadol, trimethoprim, valsartan, vancomycin, venlafaxine, warfarin, zolpidem  |
| 2.90                | <b>Organic Acids</b> – acetic acid, propionic acid, isobutyric acid, butyric acid, isovaleric acid, valeric acid, isocaproic acid, caproic acid, heptanoic acid  |
| 2.91                | <b>Polycyclic aromatic hydrocarbons</b> – naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(j)fluoranthene, benzo-(a)-pyrene, dibenzo-(a,c)-anthracen@dibenzo-(a,h)-anthracen, benzo-(g,h,i)-perylene, indeno-(1,2,3,c,d)-pyrene, coronene, trifenylen@chrysen, calculation of sums according to CZ_SOP_D03_02   |
| 2.92                | <b>Aniline and aniline derivatives</b> – p-Chloroaniline, aniline, N-ethylaniline, 2-naphthol  |
| 3.1                 | <b>Fatty acids</b> – butyric, caproic, caprylic, caprinic, undecanoic, lauric, tridecanoic, myristic, pentadecanoic, palmitic, heptadecanoic, stearic, arachidic, heneicosanoic, behenic, tricosanoic, lignoceric, myristoleic, cis-10-pentadecenoic, palmitoleic, cis-10-heptadecenoic, elaidic, oleic, cis-11-eicosenoic, erucic, nervonic, linolelaidic, linoleic, $\gamma$ -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<br><b>SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6</b> – <b>SAFA</b> - butyric (C4:0), caproic (C6:0), caprylic (C8:0), capric (C10:0), undecanoic (C11:0), lauric (C12:0), tridecanoic (C13:0), miristic (C14:0), pentadecanoic (C15:0), palmitic (C16:0), heptadecanoic (C17:0), stearic (C18:0), arachidic (C20:0), heneicosanoic (C21:0), behenic (C22:0), tricosanoic (C23:0), lignoceric (C24:0), <b>MUFA</b> - myristoleic (C14:1), cis-10-pentadecenoic (C15:1), palmitoleic (C16:1), cis-10-heptadecenoic (C17:1), oleic (C18:1n9c), cis-11-eicosenic (C20:1), erudic (C22:1n9), nervonic (C24:1), <b>PUFA</b> - linolelaidic (C18:2n6c), linoleic (C18:3n6), $\gamma$ -linoleic (C18:3n3), cis-11,14-eicosadienoic (C20:2), cis-8,11,14-eicosatrienoic (C20:3n6), cis-11,14,17-eicosatrienoic (C20:3n3), arachidonic (C20:4n6), cis-13,16-docosadienoic (C22:2), cis-5,8,11,14,18-eicosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), <b>TFA</b> - elaidic (C18:1n9t), linolelaidic (C18:2n6t), C18:3 trans isomery, <b>Omega 3</b> - 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), <b>Omega 6</b> - linoleic (C18:2n6c), $\gamma$ -linoleic (C18:3n6), cis-8,11,14-eicosatrienoic (C20:3n6), arachidonic (C20:4n6), cis-11,14-eicosadienoic (C20:2), cis-13,16-docosadienoic (C22:2) |
| 3.6                 | <b>Substitute sweeteners</b> – aspartame, acesulfame-K, saccharine, neohesperidine DC  |
| 3.8                 | <b>Preservatives</b> – sorbic acid, benzoic acid   |
| 3.27                | <b>Vitamin D</b> – vitamin D2 a vitamin D3   |
| 7.12                | <b>Radionuklids</b> – Radionuclides emitting gamma rays in the energy interval 46,5 – 1836 keV – Natural Radionuclides $^{40}\text{K}$ , $^{210}\text{Pb}$ , $^{222}\text{Rn}$ ( $^{226}\text{Ra}$ ), $^{223}\text{Ra}$ ( $^{227}\text{Ac}$ ), $^{224}\text{Ra}$ , $^{226}\text{Ra}$ , $^{228}\text{Ra}$ ( $^{232}\text{Th}$ ), $^{227}\text{Th}$ ( $^{227}\text{Ac}$ ), $^{228}\text{Th}$ , $^{230}\text{Th}$ , $^{234}\text{Th}$ ( $^{238}\text{U}$ ), $^{231}\text{Pa}$ , $^{235}\text{U}$ ; Artificial Radionuclides $^7\text{Be}$ , $^{54}\text{Mn}$ , $^{57}\text{Co}$ , $^{60}\text{Co}$ , $^{65}\text{Zn}$ , $^{88}\text{Y}$ , $^{99\text{m}}\text{Tc}$ , $^{109}\text{Cd}$ , $^{131}\text{I}$ , $^{133}\text{Ba}$ , $^{134}\text{Cs}$ , $^{137}\text{Cs}$ , $^{152}\text{Eu}$ , $^{192}\text{Ir}$ , $^{241}\text{Am}$   |

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| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes)  |
|---------------------|---|
| 7.17                | <b>The calculation of indicative dose (ID)</b> – calculated from the results of determination of Radium 226(CSN 75 7626), Uranium (CSN 75 7614), Tritium (ISO 9698), Polonium 210 (CSN 75 7626), radionuclides determined using high resolution gamma ray spectrometry (CZ_SOP_D06_07_367), Lead 210 (CZ_SOP_D06_07_370), Strontium 90 (CZ_SOP_D06_07_373) and Carbon 14 (CZ_SOP_D06_07_374)        |
| 9.1                 | <b>Organic acids</b> – propionic acid, citric acid, lactic acid, acetic acid, tartaric acid, malic acid   |
| 9.8                 | <b>Polyols</b> - Xylitol, Sorbitol, Mannitol, Isomalt, Lactitol, Maltitol, Fructose, Erythritol   |
| 9.29                | <b>Meat content calculation</b> – calculated from the results of the determination of ash according to CZ_SOP_D06_09_458, protein according to CZ_SOP_D06_09_475, moisture according to CZ_SOP_D06_09_452, fat according to CZ_SOP_D06_09_482, hydroxyproline according to CZ_SOP_D06_09_481  |
| 9.30                | <b>Determinaton of carbohydrates and energy value</b> – calculated from the results of the determination of ash according to CZ_SOP_D06_09_458, protein according to CZ_SOP_D06_09_475, moisture according to CZ_SOP_D06_09_452, fat according to CZ_SOP_D06_09_482, dietary fibre according to CZ_SOP_D06_09_465   |
| 9.31                | <b>Determination of non-protein content substances</b> – calculated from the results of the determination of moisture according to CZ_SOP_D06_09_452, total nitrogen according to CZ_SOP_D06_09_475, fat according to CZ_SOP_D06_09_482, ash according to CZ_SOP_D06_09_458, crude fibre according to CZ_SOP_D06_09_465   |
| 9.37                | <b>Synthetic dyes</b> – <b>E102</b> (Tartrazine), <b>E104</b> (Quinoline yellow), <b>E110</b> (Yellow SY), <b>E122</b> (Azorubin), <b>E123</b> (Amaranth), <b>E124</b> (Ponceau 4R), <b>E127</b> (Erythrosin), <b>E128</b> (Red 2G), <b>E129</b> (Allura Red AC), <b>E131</b> (Patent Blue V), <b>E132</b> (Indigotine), <b>E133</b> (Briliant Blue), <b>E142</b> (Green S), <b>E151</b> (Black BN) |
| 9.46                | <b>Sugars</b> – glucose, fructose, lactose, maltose, sucrose, galactose, and the sum of sugars by calculation   |

**Specification of the scope of accreditation:**

| Ordinal test number   | Detailed information on activities within the scope of accreditation (tested subject)  |
|---|--|
| 1.1, 1.7, 1.14, 1.15, 1.17, 1.19, 1.21, 1.22, 1.29, 1.30, 1.33, 1.36, 1.37, 1.38, 1.39, 1.40, 1.43, 1.47, 1.50, 1.51, 1.52, 1.54, 1.55, 1.56, 1.57, 1.59, 1.64, 1.65, 1.75, 1.76, 1.77, 1.79, 1.80, 1.82, 1.85, 1.86, 1.87, 1.89, 1.90, 1.91, 1.93, 1.94, 1.95, 1.96, 1.97, 1.98, 1.99, 1.101, 1.102, 1.103, 1.104, 1.105, 1.110, 1.113, 1.115, 1.117, 1.118, 1.119, 1.120, 1.122, 1.128, 1.129, 1.130, 1.131, 1.133, 1.134, 1.135, 1.137, 1.138, 1.139, 1.144, 1.146, 1.149, 1.153, 1.165, 1.167, 1.171, 1.180, 2.2, 2.3, 2.7, 2.9, 2.11, 2.13, 2.16, 2.18, 2.20, 2.23, 2.25, 2.27, 2.31, 2.38, 2.43, 2.47, 2.51, 2.55, 2.63, 2.65, 2.68, 2.69, 2.71, 2.73, 2.75, 2.76, 2.78, 2.81, 2.83, 2.84, 2.89-2.92, 4.14, 4.18, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 7.10, 7.12, 7.15, 7.16, 7.17, 7.18, 7.21, 7.23 | Water - drinking, bottled, natural, mineral, pool, hot, bathing, raw, underground, surface, waste, sea water, treated waters – dialysis water, aqua purificata, process, industrial, boiler and cooling water, irrigation water, water supplied by pipeline or taken from various reservoirs |
| 1.1, 1.7, 1.14, 1.15, 1.17, 1.19, 1.21, 1.22, 1.29, 1.30, 1.33, 1.36, 1.37, 1.38, 1.39, 1.40, 1.43, 1.47, 1.50, 1.51, 1.54, 1.55, 1.56, 1.57, 1.59, 1.75, 1.76, 1.77, 1.79, 1.80, 1.82, 1.89, 1.90, 1.91, 1.93, 1.94, 1.95, 1.96, 1.97, 1.98, 1.99, 1.101, 1.102, 1.103,  | Extracts - Aqueous extracts of soils, sediments, and waste according to valid legislation.   |

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| Ordinal test number  | Detailed information on activities within the scope of accreditation (tested subject)  |
|--|--|
| 1.104, 1.105, 1.113, 1.115, 1.117, 1.118, 1.119, 1.120, 1.122, 1.128, 1.129, 1.135, 1.137, 1.138, 1.139, 1.144, 1.146, 1.153, 1.165, 1.167, 1.171, 1.180, 2.2, 2.3, 2.7; 2.9; 2.11, 2.16, 2.18, 2.20, 2.23, 2.27, 2.31, 2.55, 2.84, 6.5, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.10, 7.15, 7.16  |  |
| 1.1, 1.7, 1.14; 1.15, 1.17, 1.34, 1.37, 1.40; 1.55, 1.56, 1.71; 1.72, 1.73, 1.98, 1.135, 1.180, 2.3, 2.75  | Liquid samples - industrial liquids, technical liquids, technological baths, extinguishing foams, gel-like liquids   |
| 1.2, 1.8, 1.14, 1.16, 1.18, 1.20, 1.31, 1.41, 1.44, 1.45, 1.46, 1.48, 1.66, 1.67, 1.68, 1.71, 1.72, 1.73, 1.78, 1.81, 1.111, 1.112, 1.114, 1.116, 1.121, 1.123, 1.132, 1.142, 1.143, 1.147, 1.151, 1.154, 1.172, 1.174, 1.175, 1.176, 1.181, 2.1, 2.4, 2.8, 2.10, 2.24, 2.28, 2.32, 2.39, 2.44, 2.48, 2.52, 2.57, 2.77,  | Solid samples - waste (solid, liquid, biowaste), sediments, sludge, technological sludge products, soils, rocks, coal  |
| 1.2, 1.8, 1.31, 1.41, 1.71, 1.72, 1.78, 1.114, 1.116, 1.121; 1.123, 1.143, 1.147, 1.151; 2.14, 2.17, 2.19, 2.21, 2.39, 2.44, 2.52, 2.57, 2.66, 2.79  | Building materials - building materials (demolished material, recycled, disposed building materials)   |
| 1.2, 1.8, 1.31, 1.41, 1.71, 1.72, 1.78, 1.114, 1.116, 1.121, 1.123, 1.143, 1.147, 1.151, 2.14, 2.17, 2.19, 2.21, 2.39, 2.44, 2.52, 2.57, 2.66, 2.79  | Material for building - new or unused building materials and raw materials for their production  |
| 1.3, 1.9, 1.42, 1.151, 2.41, 2.46, 2.50, 2.54, 2.60, 2.74, 2.87, 3.1, 3.3, 3.9, 3.10, 3.11, 3.14, 3.15, 3.16, 3.17, 3.23, 3.27, 3.28, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 5.17, 5.18, 5.19, 5.20, 5.21, 5.22, 5.23, 5.28, 5.29, 5.30, 5.39, 7.20, 9.1, 9.2, 9.3, 9.4, 9.5, 9.8, 9.9, 9.10, 9.11, 9.12, 9.17, 9.18, 9.19, 9.26, 9.28, 9.31, 9.46 | Feed - products for animal nutrition, PET Food   |
| 1.4, 1.10, 1.42, 2.40, 2.45, 2.49, 2.53, 2.59, 2.87, 5.9, 7.20,  | Biological materials - blood, tissues, mother's milk, urine, sweat   |
| 1.5, 1.11, 1.13, 1.125, 1.163, 1.164, 1.170, 2.26, 2.35, 2.37, 2.42, 2.56, 2.58, 2.72, 2.91  | Emissions - filters, liquid and solid sorbents, condensates, fly ash   |
| 1.5, 1.11, 1.13, 1.125, 1.163, 1.164, 2.26, 2.36, 2.37, 2.56, 2.58, 2.72, 2.91   | Immissions - filters, solid sorbents   |
| 1.140  | Surface waters - flowing watercourses, stagnant water – lakes, reservoirs, ponds, and seawater   |
| 1.151, 2.67  | Vegetable materials - green plants (root, flower, green parts), pollen   |
| 1.173, 2.6, 2.56, 2.58, 2.82   | Working environment - filters, solid sorbents, tubes   |
| 1.178  | Gases - gases from biogas plants, landfill gases   |
| 2.40, 2.45, 2.53 2.59  | Animal materials - insects   |
| 2.41, 2.46, 2.54, 2;60   | SPMD extracts - SPMD from surface water, ground water and immission  |
| 3.19   | Fermented and hydrolysed food and beverages - e.g., beer, starch and starch products, soy sauces, malt extracts, yeast doughs  |
| 4.14   | Treated waters - dialysis water, aqua purificata, process, industrial, boiler and cooling water, irrigation water, water supplied by pipeline or taken from various reservoirs |

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| Ordinal test number                 | Detailed information on activities within the scope of accreditation (tested subject)   |
|-------------------------------------|---|
| 6.1, 6.2, 6.3, 6.4, 6.5, 6.10, 6.11 | Wastewater - water from wastewater treatment plants, grease or oil separators, sewage, cooling, technological, rinsing, industrial  |
| 7.21                                | Bioindicators - freshwater and sea water plankton   |
| 9.33                                | Selected foods - food, raw materials for food production, dietary supplements, and feed except for samples of listed matrices with a moisture content higher than 95%, unprocessed cereals and condensed milk |

**Specification of the scope of accreditation:**

| Ordinal test number  | Detailed information on activities within the scope of accreditation (source literature)  |
|--|---|
| 1.1, 1.7, 1.14, 1.15, 1.17, 1.19, 1.21, 1.22, 1.29, 1.30, 1.33, 1.36, 1.37, 1.38, 1.39, 1.40, 1.43, 1.47, 1.50, 1.51, 1.54, 1.55, 1.56, 1.57, 1.59, 1.75, 1.76, 1.77, 1.79, 1.80, 1.82, 1.89, 1.90, 1.91, 1.93, 1.94, 1.95, 1.96, 1.97, 1.98, 1.99, 1.101, 1.102, 1.103, 1.104, 1.105, 1.113, 1.115, 1.117, 1.118, 1.119, 1.120, 1.122, 1.128, 1.129, 1.135, 1.137, 1.138, 1.139, 1.144, 1.146, 1.153, 1.165, 1.167, 1.171, 1.180, 2.2, 2.3, 2.7, 2.9, 2.11, 2.16, 2.18, 2.20, 2.23, 2.27, 2.31, 2.55, 2.84, 6.5, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.10, 7.15, 7.16 | Extracts are usually prepared according to the standards ČSN EN 12457-2, ČSN EN 12457-3, ČSN EN 12457-4, ČSN EN 14405, US EPA Method 1311, US EPA Method 1312, DIN 38414 S4, ÖNORM S2072.   |
| 2.15   | Recommended Methods for the Identification and Analysis of Cannabis and Cannabis Products, MANUAL FOR USE BY NATIONAL DRUG ANALYSIS LABORATORIES, UNITED NATIONS, New York, 2009, UNITED NATIONS PUBLICATION, Sales No. E.09.XI.15, ISBN 978-92-1-148242-3;<br>Commission Regulation (EC) No. 1122/2009 of 30 November 2009 |
| 2.81   | 2002/657/EC - Commission Decision of August 14 2002 implementing Council Directive 96/23/EC   |

**Sampling:**

| Ordinal number                 | Sampling procedure name                               | Sampling procedure identification <sup>1</sup>   | Subject of sampling   |
|--------------------------------|---|--|---|
| 1 <sup>1,2,4,5,6,7,8,9</sup>   | Collection of simple sample of surface water manually | CZ_SOP_D06_01_V01<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-4;<br>ČSN EN ISO 5667-6;<br>ČSN EN ISO 5667-14) | Surface water   |
| 2 <sup>1,2,3,4,5,6,7,8,9</sup> | Collection of simple sample of waste water manually   | CZ_SOP_D06_01_V02<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-10;<br>ČSN EN ISO 5667-14)                      | Wastewater – water from waste water treatment plants, grease or oil separators, sewage, cooling, technological, rinsing, industrial |

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| Ordinal number                    | Sampling procedure name   | Sampling procedure identification <sup>1</sup>  | Subject of sampling  |
|-----------------------------------|---|---|--|
| 3 <sup>1,2,3,4,5,6,7,8,9,12</sup> | Collection of drinking and hot water sample manually                            | CZ_SOP_D06_01_V03<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-5;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 5667-21;<br>ČSN EN ISO 19458;<br>Degree 252/2004 Coll.,<br>Degree of SÚJB No. 307/2002 Coll.)    | Drinking water and hot water   |
| 4 <sup>1,2,3,4,5,6,7,8,9</sup>    | Collection of waste water composite sample by an automatic sampler              | CZ_SOP_D06_01_V04<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-10;<br>ČSN EN ISO 5667-14)   | Wastewater – water from waste water treatment plants, grease or oil separators, sewage, cooling, technological, rinsing, industrial  |
| 5 <sup>1,2,3,4,5,6,7,8,9</sup>    | Collection of treated water manually  | CZ_SOP_D06_01_V05<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-5;<br>ČSN ISO 5667-7;<br>ČSN EN ISO 5667-14)   | Treated waters - dialysis water, aqua purificata, process, industrial, boiler and cooling water, irrigation water, water supplied by pipeline or taken from various reservoirs |
| 6 <sup>1,2,3,4,5,6,7,8,9</sup>    | Collecting of water samples from artificial and natural swimming pools manually | CZ_SOP_D06_01_V06<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-4;<br>ČSN ISO 5667-5;<br>ČSN EN ISO 5667-6;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458;<br>ČSN EN 15288-2;<br>Degree No. 238/2011 Coll.) | Pool and filling waters of artificial swimming pools   |
| 7 <sup>1,2,3,4,5,6,7,8,9</sup>    | Collection of simple sample of ground water using pumps and manually            | CZ_SOP_D06_01_V07<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-11;<br>ČSN EN ISO 5667-14)   | Groundwater from boreholes and wells   |
| 8 <sup>1,2,4,5,6,7,8,9</sup>      | Sampling of surface swab manually   | CZ_SOP_D06_01_V08<br>(ČSN 56 0100:1994;<br>ČSN EN ISO 18593;<br>Degree No. 289/2007 Coll.;<br>ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-14)   | Contaminated surfaces – food premises, walls after fires, walls of technological operations  |
| 9 <sup>1,2,3,4,5,6,7,8,9</sup>    | Sampling of sewage sludge and water treatment plants manually                   | CZ_SOP_D06_01_V09<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-13;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 5667-15;<br>ČSN EN ISO 19458)  | Sludge from sewage treatment plants and water treatment plants, from sludge landfills  |

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| Ordinal number                  | Sampling procedure name               | Sampling procedure identification <sup>1</sup>   | Subject of sampling                                  |
|---------------------------------|---------------------------------------|--|--|
| 10 <sup>1,2,3,4,5,6,7,8,9</sup> | Sampling of bottom sediments manually | CZ_SOP_D06_01_V10<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-12;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 5667-15;<br>ČSN ISO 5667-17)   | Bottom sediments from streams and reservoirs         |
| 11 <sup>1,2,3,4,5,6,7,8,9</sup> | Sampling of soils manually            | CZ_SOP_D06_01_V11<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-13;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 5667-15;<br>TNI CEN/TR 15310-1;<br>TNI CEN/TR 15310-2;<br>TNI CEN/TR 15310-3;<br>TNI CEN/TR 15310-4;<br>TNI CEN/TR 15310-5;<br>ČSN 015110;<br>ČSN 015111;<br>ČSN EN 14899;<br>ČSN EN ISO 19458)   | Soils  |
| 12 <sup>1,2,3,4,5,6,7,8,9</sup> | Sampling of waste manually            | CZ_SOP_D06_01_V12<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-13;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 5667-15;<br>TNI CEN/TR 15310-1;<br>TNI CEN/TR 15310-2;<br>TNI CEN/TR 15310-3;<br>TNI CEN/TR 15310-4;<br>TNI CEN/TR 15310-5;<br>ČSN 015110;<br>ČSN 015111;<br>ČSN 015112;<br>ČSN EN 14899;<br>ČSN EN ISO 19458;<br>ČSN EN ISO 3170;<br>Methodological Guide of ME for Waste Sampling 2008, 101s) | Waste  |
| 13 <sup>1,2,3,4,5,6</sup>       | Air sampling by personal pump         | CZ_SOP_D06_01_V13<br>(ČSN EN 481;<br>ČSN EN 482;<br>ČSN EN 689+AC;<br>GR No. 361/2007 Coll.)   | Working environment – filters, solid sorbents, tubes |

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| Ordinal number                  | Sampling procedure name  | Sampling procedure identification <sup>1</sup>   | Subject of sampling   |
|---------------------------------|--|--|---|
| 14 <sup>1,2,3,4,5,6,7,8,9</sup> | Sampling of food by the method of random sampling  | CZ_SOP_D06_01_V14<br>(Decree 211/2004, Coll.;<br>Commission Regulation (EC)<br>2073/2005)  | Packaged foods and beverages  |
| 15 <sup>1,2,7</sup>             | Gas sampling for determination NH <sub>3</sub>   | CZ_SOP_D06_01_V15<br>(ČSN 834728)  | Gases - gases from biogas plants,<br>landfill gases   |
| 16 <sup>1</sup>                 | Stationary air sampling for the determination of the number of asbestos and mineral fibers | CZ_SOP_D06_01_V16<br>(ISO 14966, chap. 5;<br>VDI 3492, chap. 5 a 6,<br>ČSN EN ISO 16000-7;<br>ČSN EN 482;<br>GR No. 361/2007, Coll., appendix 3) | Outdoor and indoor air, working<br>environment – filters, solid sorbents,<br>tubes  |
| 17 <sup>1</sup>                 | Sampling for the asbestos determination  | CZ_SOP_D06_01_V17<br>(VDI 3866, part 1)  | Building materials – new or unused<br>materials for construction and raw<br>materials for their production<br>Construction materials –<br>construction materials (demolished<br>material, recycled material, disposed<br>of construction materials) |

<sup>1</sup> for dated documents identifying sampling procedures, only those specific procedures are used, for undated documents identifying sampling procedures, the most recent edition of that procedure (including any changes) is used

<sup>2</sup> superscript at the sampling ordinal number identifies the number of the location carrying out the sampling (the locations are identified on the first page of the document)

**Used abbreviations**

|  |   |
|--|---|
| AHEM   | Acta hygienica, epidemiologica et microbiologica  |
| AITM   | Airbus methods  |
| BDE  | Brominated diethylethers  |
| BFR  | Brominated flame retardants   |
| ACI  | Activity Concentration Index  |
| CFA  | Continuous Flow Analyser  |
| CFPP   | Cold Filter Plugging Point  |
| ČL   | Czech Pharmacopoeia   |
| DIN  | Deutscher Institut fuer Normung   |
| DM 06/09/94 GU n° 288<br>10/12/1994 All. 1 Met. B. | Decree of 06/09/1994 (Decreto Ministeriale 6 settembre 1994), published in Bulletin<br>No. 288 10/12/1994 |
| EC   | Electrochemical detection   |
| ECD  | Electron Capture Detector   |
| FID  | Flame Ionization Detector   |
| FLD  | Fluorescence Detector   |
| GR   | Government Regulation   |
| HRGC/HRMS  | High Resolution Gas Chromatography/High Resolution Mass Spectrometry                                      |
| I  | Mass activity index   |



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|            |   |
|------------|---|
| ID         | Indicative dose   |
| IP         | International Petroleum test method   |
| IR         | Infrared Region Detector  |
| ISE        | Ion Selective Electrode   |
| ISO        | International Organization for Standardisation  |
| ITP        | Isotachophoresis  |
| LDN        | Labor Diagnostika Nord GmbH & Co.KG   |
| 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-Instituut   |
| NIOSH      | National Institute for Occupation Safety and Health   |
| PBB        | Polybrominated biphenyls  |
| PhEur      | European Pharmacopoeia  |
| PDA        | Photo-Diode-Array detektor  |
| PUFA       | Polyunsaturated Fatty Acids   |
| RI         | Refractometric Detector   |
| SAFA       | Saturated Fatty Acids   |
| SEM/EDS    | Scanning Electron Microscope / Energy Dispersive Spectrometer   |
| SFS        | The Finish Standard Association   |
| SM         | Standard Methods – Standard US methods for the analysis of drinking and wastewater prepared and issued by American Public Health Association, American Water Works Association and Water Environmental Federation, 21 <sup>st</sup> edition |
| SOP        | Standard operating procedure  |
| SPIMFAB    | SPI MILJOSANERINGSFOND AB – method of Swedish Petroleum Institute   |
| SPMD       | Semi-Permeable Membrane Device  |
| SS         | Svensk Standard – Swedish standard  |
| STN        | Slovak Technical Standard   |
| SÚJB       | State Office for Nuclear Safety   |
| Suma Ca+Mg | Water hardness  |
| TCD        | Thermal Conductivity Detector   |
| TEQ        | Toxic Equivalent  |
| TFA        | Trans Fatty Acids   |
| TNV        | Branch Technical Standard of Water Management   |
| USBSC      | Empirical formula of permeability of mixed materials, coefficient of permeability was extracted from granulometry analysis  |
| US EPA     | U.S. Environmental Protection Agency  |
| USP        | US Pharmacopoeia  |
| UV         | Ultraviolet Detector  |