



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. 128/2017

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

to the Testing Laboratory No. 1163

Scope of accreditation:

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

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

ČSN EN ISO/IEC 17025:2005

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

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 319/2016 of 25 May 2016, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **28. 2. 2022**

Prague: 28. 2. 2017



Jiří Růžička  
Director  
Czech Accreditation Institute  
Public Service Company

**Entity accredited as per ČSN EN ISO/IEC 17025:2005:**

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

**Testing Laboratory Workplaces:**

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

**Contact and Sampling Points:**

|   |                      |   |
|---|----------------------|---|
| 4 | Brno                 | Staňkova 103/18, 602 00 Brno              |
| 5 | Ostrava              | Vratimovská 11, 718 00 Ostrava            |
| 6 | Plzeň                | Lobezská 15, 301 46 Plzeň [Pilsen]        |
| 7 | Lovosice             | U Zdymadel 827, 410 02 Lovosice           |
| 8 | Rožnov pod Radhoštěm | 1. Máje 2625, 756 61 Rožnov pod Radhoštěm |
| 9 | Kroměříž             | Na Sádkách 3478/4a, 767 01 Kroměříž       |

**Tests:**

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

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

*The laboratory has a flexible scope of accreditation as detailed in the Annex. The current list of activities conducted within the flexible range is available at the Laboratory from the Quality Manager.*

*The laboratory is qualified to provide expert opinions and interpret test results.*

**Tests: GENERAL CHEMISTRY**

| Ordinal number <sup>1)</sup> | Test procedure/method name   | Test procedure/method identification  | Tested object                   |
|------------------------------|--|---|---------------------------------|
| 1.1 <sup>1)</sup>            | Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>51)</sup> including the calculation of total mineralization and calculating the sum of Ca+Mg | <b>CZ_SOP_D06_02_001</b><br>(US EPA 200.7, ISO 11885, ČSN EN16192, US EPA 6010, SM 3120, ČSN 75 7358 samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 and 10.2)  | Water, extracts, liquid samples |
| 1.2 <sup>1)</sup>            | Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>52)</sup>  | <b>CZ_SOP_D06_02_001</b><br>(US EPA 200.7, ISO 11885, US EPA 6010, SM 3120, samples prepared as per CZ_SOP_D06_02_J02 (US EPA 3050, ČSN 13657) chap.10.3 to 10.16, 10.17.5, 10.17.6, 10.17.9 to 10.17.14) | Solid samples                   |
| 1.3 <sup>1)</sup>            | Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>53)</sup>  | <b>CZ_SOP_D06_02_001</b><br>(US EPA 200.7, ISO 11885, samples prepared as per CZ_SOP_D06_02_J02 chap.10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8.)  | Food, feed                      |

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| Ordinal number <sup>1)</sup> | Test procedure/method name  | Test procedure/method identification   | Tested object                   |
|------------------------------|---|--|---------------------------------|
| 1.4 <sup>1)</sup>            | Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>53)</sup>   | <b>CZ_SOP_D06_02_001</b><br>(US EPA 200.7, ISO 11885, samples prepared as per CZ_SOP_D06_02_J02 chap.10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8)  | Biological material             |
| E1.5 <sup>1)</sup>           | Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma and determination of Cr <sup>3+</sup> by calculation from measured values  | <b>CZ_SOP_D06_02_001</b><br>(US EPA 200.7, ISO 11885, ČSN EN 13211, ČSN EN 14385, ČSN EN 14902, IO 3.4, US EPA 29, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1, 10.2, 10.16.1 - 10.16.4)  | Emission, immission             |
| 1.6 <sup>1)</sup>            | Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma  | <b>CZ_SOP_D06_02_001</b><br>(US EPA 200.7, ISO 11885, ČL/PhEur/USP, sample preparation as per CZ_SOP_D06_02_J02 chap.10.20)  | Pharmaceutical material         |
| 1.7 <sup>1)</sup>            | Determination of elements <sup>41)</sup> by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>51)</sup> including the calculation of total mineralization and calculating the sum of Ca+Mg | <b>CZ_SOP_D06_02_002</b><br>(US EPA 200.8, ČSN EN ISO 17294-2, US EPA 6020A, ČSN EN 16192, ČSN 75 7358, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1, 10.2)                                 | Water, extracts, liquid samples |
| 1.8 <sup>1)</sup>            | Determination of elements <sup>42)</sup> by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values   | <b>CZ_SOP_D06_02_002</b><br>(US EPA 200.8, ČSN EN ISO 17294-2, US EPA 6020A, samples prepared as per CZ_SOP_D06_02_J02 (ČSN EN 13657), chap.10.3 to 10.16, 10.17.5, 10.17.6, 10.17.9 to 10.17.14)  | Solid samples                   |
| 1.9 <sup>1)</sup>            | Determination of elements <sup>43)</sup> by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>53)</sup>  | <b>CZ_SOP_D06_02_002</b><br>(US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8)                          | Food, feed                      |
| 1.10 <sup>1)</sup>           | Determination of elements <sup>44)</sup> by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>53)</sup>  | <b>CZ_SOP_D06_02_002</b><br>(US EPA 200.8, ČSN EN ISO 17294-2, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8)  | Biological material             |
| E1.11 <sup>1)</sup>          | Determination of elements <sup>45)</sup> by mass spectrometry with inductively coupled plasma and determination of Cr <sup>3+</sup> by calculation from measured values   | <b>CZ_SOP_D06_02_002</b><br>(US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 13211, ČSN EN 14385, ČSN EN 14902, US EPA 29, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1, 10.2, 10.16.1 - 10.16.4) | Emission, immission             |

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| Ordinal number <sup>1)</sup> | Test procedure/method name   | Test procedure/method identification  | Tested object   |
|------------------------------|--|---|---|
| 1.12 <sup>1)</sup>           | Determination of elements <sup>60)</sup> by mass spectrometry with inductively coupled plasma  | <b>CZ_SOP_D06_02_002</b><br>(US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111, ČL/PhEur/USP, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.20)   | Pharmaceutical material   |
| E1.13 <sup>1)</sup>          | Determination of Hg by atomic absorption spectrometry  | <b>CZ_SOP_D06_02_003</b><br>(ČSN 46 5735, ČSN 75 7440, ČL, PhEur, USP, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 to 10.17.14, 10.20)  | Water, extracts, liquid samples, solid samples, food, animal feeding stuff, biological material, emission, immission, pharmaceutical material |
| 1.14 <sup>2)</sup>           | Determination of Hg by single-purpose atomic absorption spectrometer   | <b>CZ_SOP_D06_07_004</b><br>(ČSN 75 7440, ČSN 46 5735, samples prepared as per CZ_SOP_D06_07_P02 chap. 10-13, 16, 20)   | Water, extracts, liquid samples, solid samples  |
| 1.15 <sup>2)</sup>           | Determination of elements <sup>49)</sup> by flame AAS method and stoichiometric calculations of compounds concentration from measured values   | <b>CZ_SOP_D06_07_005</b><br>(ČSN ISO 8288, ČSN 75 7400, ČSN EN 1233, ČSN EN 16192, ČSN ISO 7980, ČSN ISO 9964, Perkin-Elmer specifications, samples prepared as per CZ_SOP_D06_07_P02 chap. 10, 13, 17) | Water, extracts   |
| 1.16 <sup>2)</sup>           | Determination of elements <sup>49)</sup> by flame AAS method and stoichiometric calculations of compounds concentration from measured values   | <b>CZ_SOP_D06_07_005</b><br>(ČSN ISO 8288, ČSN 75 7400, ČSN EN 1233, ČSN ISO 7980, ČSN ISO 9964, Perkin-Elmer specifications, samples prepared as per CZ_SOP_D06_07_P02 chap. 11-12, 14-16, 19)         | Solid samples   |
| 1.17 <sup>2)</sup>           | Determination of elements <sup>50)</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | <b>CZ_SOP_D06_07_006</b><br>(ČSN EN ISO 11885, ČSN EN 16192, AITM3-0032, samples prepared as per CZ_SOP_D06_07_P02 chap. 10, 13, 17)  | Water, extracts, liquid samples   |
| 1.18 <sup>2)</sup>           | Determination of elements <sup>50)</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values | <b>CZ_SOP_D06_07_006</b><br>(ČSN EN ISO 11885, ČSN EN 15410, ČSN EN 15411, samples prepared as per CZ_SOP_D06_07_P02 chap. 11-12, 14-16, 19)  | Solid samples, solid recovered fuels  |
| 1.19 <sup>2)</sup>           | Determination of Kjeldahl nitrogen by spectrophotometry  | <b>CZ_SOP_D06_07_007.A</b><br>(ČSN EN 25663, ČSN ISO 7150-1)  | Water, extracts   |
| 1.20 <sup>2)</sup>           | Determination of Kjeldahl nitrogen by spectrophotometry  | <b>CZ_SOP_D06_07_007.B</b><br>(ČSN EN 25663, ČSN EN 13342, ČSN ISO 7150-1)  | Solid samples   |
| E1.21 <sup>2)</sup>          | Determination of Cr <sup>VI</sup> by spectrophotometry with diphenylcarbazide  | <b>CZ_SOP_D06_07_008</b><br>(ČSN ISO 11083, ČSN EN 16192)   | Water, extracts, absorption solutions from emission samples   |
| 1.22 <sup>2)</sup>           | Determination of total phosphorus and orthophosphate by spectrophotometry and P <sub>2</sub> O <sub>5</sub> determination by calculation from measured values                            | <b>CZ_SOP_D06_07_009.A</b><br>(ČSN EN ISO 6878)   | Water, extracts   |

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|------------------------------------|--|--|--|
| 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   | <b>CZ_SOP_D06_07_009.B</b><br>(ČSN EN 14672, ČSN EN ISO 6878)  | Sludge, technological sludge products      |
| 1.24 <sup>2)</sup>                 | Determination of total cyanide by spectrophotometry and determination of complex-forming cyanides by calculation from measure values   | <b>CZ_SOP_D06_07_010</b><br>(ČSN 75 7415)  | Water, extracts                            |
| 1.25 <sup>2)</sup>                 | Determination of easily releasable cyanide (free cyanide) by spectrophotometry   | <b>CZ_SOP_D06_07_011</b><br>(ČSN ISO 6703-2, ČSN EN 16192)   | Water, extracts                            |
| 1.26 <sup>2)</sup>                 | Determination of total cyanide by spectrophotometry and determination of complex-forming cyanides by calculation from measure values   | <b>CZ_SOP_D06_07_012.A</b><br>(ČSN 75 7415, SM 4500 CN)  | Solid samples                              |
| E <sub>1.27</sub> <sup>2)</sup>    | Determination of total cyanide by spectrophotometry and hydrogen cyanide determination by calculation from measured values   | <b>CZ_SOP_D06_07_012.B</b><br>(ČSN 75 7415)  | Absorption solutions from emission samples |
| 1.28 <sup>2)</sup>                 | Determination of easily releasable cyanide (free cyanide) by spectrophotometry   | <b>CZ_SOP_D06_07_013</b><br>(ČSN ISO 6703-2)   | Solid samples                              |
| 1.29                               | Reserved   |  |  |
| 1.30 <sup>2)</sup>                 | Determination of sum of sulfan and sulfide by spectrophotometry and determination of free sulfan by calculation from measured values   | <b>CZ_SOP_D06_07_015.A</b><br>(ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31, SM 4500-S <sup>2-</sup> D)  | Water, extracts                            |
| 1.31 <sup>2)</sup>                 | Determination of sum of sulfan and sulfide by spectrophotometry  | <b>CZ_SOP_D06_07_015.B</b><br>(ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31)   | Solid samples                              |
| E <sub>1.32</sub> <sup>2)</sup>    | Determination of sum of sulfan and sulfide by spectrophotometry  | <b>CZ_SOP_D06_07_015.C</b><br>(ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31, ČSN 83 4712 No. 3)  | Absorption solutions from emission samples |
| 1.33 <sup>1)</sup>                 | Determination of sulfate by turbidimetry using discrete spectrophotometry and sulfate sulfur determination by calculation from measured values   | <b>CZ_SOP_D06_02_016</b><br>(US EPA 375.4, SM 4500-SO <sub>4</sub> <sup>2-</sup> )   | Water, extracts                            |
| 1.34 <sup>2)</sup>                 | Determination of sulfate by gravimetry   | <b>CZ_SOP_D06_07_017</b><br>(Uniform Methods of Chemical Analysis of Water, SNTL Prague 1965)  | Water, extracts                            |
| 1.35                               | Reserved   |  |  |
| 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 determination of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions by calculation from measured values including the calculation of total mineralization | <b>CZ_SOP_D06_02_019</b><br>(ČSN EN ISO 11732, ČSN EN ISO 13395, ČSN EN 13370, SM 4500-NO <sub>2</sub> <sup>-</sup> , SM 4500-NO <sub>3</sub> <sup>-</sup> ) | Water, extracts                            |
| 1.37 <sup>2)</sup>                 | Determination of sum of ammonia and ammonium ions by spectrophotometry and determination of ammonia nitrogen, free ammonia and dissociated ammonium ions by calculation from measured values   | <b>CZ_SOP_D06_07_020</b><br>(ČSN ISO 7150-1)   | Water, extracts                            |
| 1.38 <sup>2)</sup>                 | Determination of nitrite nitrogen by spectrophotometry and determination of nitrite by calculation from measured values  | <b>CZ_SOP_D06_07_021</b><br>(ČSN EN 26777, ČSN EN 16192)   | Water, extracts                            |



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|---|--|--|---|
| 1.39 <sup>1)</sup>                        | Determination of orthophosphate by discrete spectrophotometry and determination of orthophosphate phosphorus by calculation from measured values including the calculation of total mineralization | <b>CZ_SOP_D06_02_022</b><br>(ČSN EN ISO 6878, SM 4500-P)   | Water, extracts   |
| 1.40 <sup>2)</sup>                        | Determination of chloride by potentiometric titration  | <b>CZ_SOP_D06_07_023.A</b><br>(ČSN 03 8526:2003,<br>ČSN 83 0530:2000 No. 20,<br>SM 4500-Cl <sup>-</sup> D) | Water, extracts,<br>liquid samples                                |
| 1.41 <sup>2)</sup>                        | Determination of chloride by potentiometric titration and determination of NaCl by calculation from measured values  | <b>CZ_SOP_D06_07_023.B</b><br>(ČSN EN 480-10)  | Solid samples   |
| 1.42 <sup>2)</sup>                        | Determination of non-ionic surfactants (BiAS) by spectrophotometry   | <b>CZ_SOP_D06_07_024</b><br>(ČSN ISO 7875-2)   | Water, extracts   |
| 1.43 <sup>2)</sup>                        | Determination of extractable organically bound halogens (EOX) by coulometry  | <b>CZ_SOP_D06_07_025.A</b><br>(DIN 38409-H8, DIN 38414-S17)  | Water, extracts   |
| 1.44 <sup>2)</sup>                        | Determination of extractable organically bound halogens (EOX) by coulometry  | <b>CZ_SOP_D06_07_025.B</b><br>(DIN 38409-H8, DIN 38414-S17)  | Solid samples   |
| 1.45 <sup>2)</sup>                        | Determination of adsorbable organically bound halogens (AOX by coulometry)   | <b>CZ_SOP_D06_07_026</b><br>(ČSN EN 16166, DIN 38414-S18)  | Solid samples   |
| 1.46 <sup>2)</sup>                        | Determination of total halogens (TX) by coulometry   | <b>CZ_SOP_D06_07_027</b><br>(US EPA Method 9076)   | Solid samples, oils,<br>organic solvents                          |
| 1.47 <sup>2)</sup>                        | Determination of adsorbable organically bound halogens (AOX) by coulometry   | <b>(CZ_SOP_D06_07_028)</b><br>(ČSN EN ISO 9562, TNI 757531,<br>ČSN EN 16192)                               | Water, extracts   |
| 1.48 <sup>2)</sup>                        | Determination of phenol index by spectrophotometric method after distillation  | <b>CZ_SOP_D06_07_029</b><br>(ČSN ISO 6439)   | Solid samples   |
| E <sub>1</sub> .49 <sup>2)</sup>          | Determination of phenol index by spectrophotometric method after distillation  | <b>CZ_SOP_D06_07_030</b><br>(ČSN ISO 6439, ČSN EN 16192)   | Water, extracts,<br>absorption solutions<br>from emission samples |
| 1.50 <sup>2)</sup>                        | Determination of anionic surfactants by measurement of the methylene blue index (MBAS) by spectrophotometry  | <b>CZ_SOP_D06_07_031</b><br>(ČSN EN 903, SM 5540 C)  | Water, extracts   |
| 1.51 <sup>2)</sup>                        | Determination of absorbance and transmittance by spectrophotometry   | <b>CZ_SOP_D06_07_032</b><br>(ČSN 75 7360)  | Water, extracts   |
| 1.52*<br><sup>1) 2)</sup><br>4)5)6)7)8)9) | Determination of turbidity by measurement of intensity of scattered radiation  | <b>CZ_SOP_D06_07_033</b><br>(ČSN EN ISO 7027)  | Water, extracts   |
| 1.53 <sup>2)</sup>                        | Determination of humic substances by spectrophotometry   | <b>CZ_SOP_D06_07_034</b><br>(ČSN 75 7536)  | Drinking, surface water   |
| 1.54 <sup>2)</sup>                        | Determination of water colour by visual and spectrophotometric method  | <b>CZ_SOP_D06_07_035</b><br>(ČSN EN ISO 7887)  | Water, extracts   |
| 1.55 <sup>2)</sup>                        | Determination of electrical conductivity   | <b>CZ_SOP_D06_07_036</b><br>(ČSN EN 27888, ČSN EN 16192)   | Water, extracts   |
| 1.56 <sup>2)</sup>                        | Determination of pH electrochemically  | <b>ČSN ISO 10523, ČSN EN 16192</b>   | Water, extracts   |
| 1.57 <sup>2)</sup>                        | Determination of base neutralizing capacity (acidity) by potentiometric titration  | <b>CZ_SOP_D06_07_038</b><br>(ČSN 75 7372)  | Water, extracts   |
| 1.58 <sup>2)</sup>                        | Determination of acid neutralizing capacity (alkalinity) by potentiometric titration   | <b>CZ_SOP_D06_07_039</b><br>(ČSN EN ISO 9963-1)  | Water, extracts   |
| 1.59 <sup>2)</sup>                        | Determination of chemical oxygen demand using dichromate (COD <sub>Cr</sub> ) by titration   | <b>CZ_SOP_D06_07_040</b><br>(ČSN ISO 6060)   | Water, extracts   |

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|------------------------------------|--|--|---|
| 1.60 <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>                                       | <b>ČSN EN ISO 9888</b> and OECD 302B , COD <sub>Cr</sub> determination according to CZ_SOP_D06_07_040 (ČSN ISO 6060)   | Chemicals and chemical products, water and waste extract  |
| 1.61 <sup>2)</sup>                 | Determination of analytical water and gross water by gravimetry and determination of total water by calculation from measured values   | <b>CZ_SOP_D06_07_041</b> (ČSN 441377, ČSN EN ISO 18134-1, ČSN EN ISO 18134-2, ČSN EN ISO 18134-3 , ČSN P CEN/TS 15414-1, ČSN P CEN/TS 15414-2, ČSN EN 15414-3) | Solid fossil fuels, solid biofuels, solid recovered fuels |
| 1.62 <sup>2)</sup>                 | Determination of biochemical oxygen demand electrochemically after n days (BOD <sub>n</sub> ) - Part 1: Dilution method with addition of allylthiourea                                   | <b>CZ_SOP_D06_07_042</b> (ČSN EN 1899-1)   | Water, extracts   |
| 1.63 <sup>2)</sup>                 | Biodegradation of organic compounds in aqueous medium – Method for determination of biological oxygen demand electrochemically in a closed bottle calculated from measured values of BOD | <b>ČSN ISO 10707, Z1</b> and <b>OECD 301D</b> , BOD determination according to CZ_SOP_D06_07_042 (ČSN EN 1899-1)   | Chemicals and chemical products, water and waste extract  |
| 1.64 <sup>2)</sup>                 | Determination of biochemical oxygen demand electrochemically after n days (BOD <sub>n</sub> ) - Part 2: Method for undiluted samples   | <b>CZ_SOP_D06_07_043</b> (ČSN EN 1899-2)   | Water, extracts   |
| 1.65*<br>1)2)4)5)6)7)<br>8)9)      | Determination of dissolved oxygen by electrochemical method  | <b>CZ_SOP_D06_07_044</b> (ČSN EN ISO 5814)   | Water, extracts   |
| 1.66 <sup>1)</sup>                 | Determination of dry matter by gravimetry and determination of moisture by calculation from measured values  | <b>CZ_SOP_D06_01_045</b> (ČSN ISO 11465, ČSN EN 12880, ČSN EN 14346)   | Solid samples   |
| 1.67 <sup>2)</sup>                 | Determination of dry matter by gravimetry and determination of moisture by calculation from measured values  | <b>CZ_SOP_D06_07_046</b> (ČSN ISO 11465, ČSN EN 12880, ČSN EN 14346, ČSN 46 5735)  | Solid samples   |
| 1.68 <sup>2)</sup>                 | Determination of ash by gravimetry and determination of loss on ignition by calculation from measured values   | <b>CZ_SOP_D06_07_047.A</b> (ČSN EN 15169, ČSN EN 15935, ČSN EN 13039, ČSN 72 0103, ČSN 46 5735)  | Solid samples   |
| 1.69 <sup>2)</sup>                 | Determination of ash by gravimetry and determination of loss on ignition by calculation from measured values   | <b>CZ_SOP_D06_07_047.B</b> (ČSN EN ISO 3451-1)   | Plastics  |
| 1.70 <sup>2)</sup>                 | Determination of ash by gravimetry and determination of loss on ignition by calculation from measured values   | <b>CZ_SOP_D06_07_047.C</b> (ČSN ISO 1171, ČSN EN ISO 18122, ČSN EN 15403, ČSN EN ISO 6245)   | Solid and liquid fuels                                    |
| 1.71 <sup>1)</sup>                 | Reserved   |  |   |
| 1.72 <sup>2)</sup>                 | Reserved   |  |   |
| 1.73 <sup>2)</sup>                 | Determination of water content by Karl Fischer method  | <b>CZ_SOP_D06_07_050</b> (ČSN ISO 760)   | Liquid samples, solid samples                             |
| 1.74 <sup>2)</sup>                 | Determination of ignition residue after ignition by gravimetry and determination of loss on ignition by calculation from measured values   | <b>ČSN 72 0103</b>   | Silicate materials  |

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|------------------------------------|---|---|---------------------------------------|
| 1.75 <sup>2)</sup>                 | Determination of suspended solids, fixed suspended solids, total solids and fixed total solids by gravimetry and determination of volatile suspended solids and volatile total solids by calculation from measured values | <b>CZ_SOP_D06_07_052</b><br>(ČSN 75 7350, SM 2540 B, SM 2540 D, SM 2540 E)                                | Water, extracts                       |
| 1.76 <sup>2)</sup>                 | Determination of suspended solids using glass fibre filters by gravimetry   | <b>ČSN EN 872</b>   | Water, extracts                       |
| 1.77 <sup>2)</sup>                 | Determination of dissolved solids and fixed dissolved solids using glass fiber filters by gravimetry and determination of volatile dissolved solids by calculation from measured values                                   | <b>CZ_SOP_D06_07_054</b><br>(ČSN 75 7346, ČSN 75 7347)  | Water, extracts                       |
| 1.78 <sup>2)</sup>                 | Determination of total sulfur (TS), total carbon (TC) and inorganic carbon (TIC) by coulometry and determination of total organic carbon (TOC) and carbonate by calculation from measured values                          | <b>CZ_SOP_D06_07_055</b><br>(ČSN ISO 10694, ČSN EN 13137, ČSN EN 15936)                                   | Solid samples                         |
| 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   | <b>CZ_SOP_D06_02_056</b><br>(ČSN EN 1484, ČSN EN 16192, SM 5310)  | Water, extracts                       |
| 1.80 <sup>1)</sup>                 | Determination of nonpolar extractive substances by infrared spectrometry and determination of polar extractive substances by calculation from measured values   | <b>CZ_SOP_D06_02_057</b><br>(ČSN 75 7505:2006, STN 830540-4, US EPA 418.1, SM 5520 F, DS/R 209, SFS 3010) | Water, extracts                       |
| 1.81 <sup>1)</sup>                 | Determination of extractive and non-polar extractive compounds by infrared spectrometry and determination of polar extractive substances by calculation from measured values  | <b>CZ_SOP_D06_02_058</b><br>(TNV 75 8052, ISO/TR 11046, US EPA 418.1, SM 5520 F, DS/R 209, SFS 3010)      | Solid samples                         |
| 1.82 <sup>1)</sup>                 | Determination of extractive substances by infrared spectrometry and determination of polar extractive substances by calculation from measured values  | <b>CZ_SOP_D06_02_059</b><br>(ČSN 75 7506, STN83 0520-27.2015, STN 83 0530-36a, STN 83 0540-4, SFS 3010)   | Water, extracts                       |
| 1.83 <sup>1)</sup>                 | Determination of alpha modification of silicon dioxide in respirable dust by infrared spectrometry  | <b>CZ_SOP_D06_02_060</b><br>(NIOSH 7602)  | Dust                                  |
| 1.84*<br>1)2)4)5)6)7)<br>8)9)      | Field determination of free and total chlorine and chlorine dioxide by DPD method using HACH sets and bound chlorine by calculation from measured values  | <b>CZ_SOP_D06_07_061</b><br>(method used by HACH COMPANY, USA, ČSN ISO 7393-2)                            | Drinking water, warm water, raw water |
| 1.85*<br>1)2)4)5)6)7)<br>8)9)      | Field measurement of temperature  | <b>ČSN 75 7342</b>  | Water                                 |
| 1.86*<br>1)2)4)5)6)7)<br>8)9)      | Field measurement of electrical conductivity  | <b>CZ_SOP_D06_07_063</b><br>(ČSN EN 27888)  | Water                                 |
| 1.87*<br>1)2)4)5)6)7)<br>8)9)      | Field determination of pH electrochemically   | <b>CZ_SOP_D06_07_064</b><br>(ČSN ISO 10523)   | Water                                 |



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|------------------------------------|--|--|----------------------|
| 1.88 <sup>1)</sup>                 | Sensory analysis of water – determination of odour and taste   | <b>CZ_SOP_D06_04_065</b><br>(TNV 75 7340, ČSN EN 1622, STN EN 1622)                      | Drinking water       |
| 1.89                               | Reserved   |  |                      |
| 1.90                               | Reserved   |  |                      |
| 1.91 <sup>1)</sup>                 | Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and determination of nitrite nitrogen and nitrate nitrogen and sulfate sulfur by calculation from measured values including the calculation of total mineralization | <b>CZ_SOP_D06_02_068</b><br>(ČSN ISO 10304-1, ČSN EN 16192)                              | Water, extracts      |
| 1.92 <sup>1)</sup>                 | Determination of total carbon (TC), total organic carbon (TOC) by IR detection and determination of total inorganic carbon (TIC) and carbonate by calculation from measured values   | <b>CZ_SOP_D06_02_069</b><br>(ČSN EN 13137, ČSN ISO 10694)                                | Solid samples        |
| 1.93 <sup>1)</sup>                 | Determination of dry suspended solids and annealed suspend solids by gravimetry and determination of loss of ignition of suspend solids and total solids by calculation from measured values   | <b>CZ_SOP_D06_02_070</b><br>(ČSN EN 872, ČSN 757350)                                     | Water, extracts      |
| 1.94 <sup>1)</sup>                 | Determination of dissolved solids (RL105) and dissolved solid annealed (RAS) using glass fibre filters by gravimetry and determination of loss on ignition of dissolved solids (RL550) by calculation from measured values   | <b>CZ_SOP_D06_02_071</b><br>(ČSN 75 7346, ČSN 757347, ČSN EN 16192, ČSN EN 15216)        | Water, extracts      |
| 1.95 <sup>1)</sup>                 | Determination of acid neutralizing capacity (alkalinity) by potentiometric titration and determination of the carbonate hardness and determination of CO <sub>2</sub> forms <sup>48)</sup> by calculation from measured values including the calculation of total mineralization       | <b>CZ_SOP_D06_02_072</b><br>(ČSN EN ISO 9963-1, ČSN EN ISO 9963-2, ČSN 75 7373, SM 2320) | Water, extracts      |
| 1.96 <sup>1)</sup>                 | Determination of base neutralizing capacity (acidity) by potentiometric titration  | <b>CZ_SOP_D06_02_073</b><br>(ČSN 75 7372)  | Water, extracts      |
| 1.97 <sup>1)</sup>                 | Determination of turbidity by optical turbidimeter   | <b>CZ_SOP_D06_02_074</b><br>(ČSN EN ISO 7027)  | Water, extracts      |
| 1.98 <sup>1)</sup>                 | Determination of electrical conductivity by conductometer and calculation of salinity  | <b>CZ_SOP_D06_02_075</b><br>(ČSN EN 27 888, SM 2520 B, ČSN EN 16192)                     | Water, extracts      |
| 1.99 <sup>1)</sup>                 | Determination of chemical oxygen demand using dichromate (COD <sub>Cr</sub> ) by photometry  | <b>CZ_SOP_D06_02_076</b><br>(ČSN ISO 15705)  | Water, extracts      |
| 1.100 <sup>1)</sup>                | Determination of chemical oxygen demand using dichromate (COD <sub>Cr</sub> ) by titration   | <b>CZ_SOP_D06_02_076.A</b><br>(ČSN ISO 15705)  | Water, extracts      |
| 1.101 <sup>1)</sup>                | Determination of biochemical oxygen demand after n days (BODn) by dilution method with allylthiourea addition  | <b>CZ_SOP_D06_02_077</b><br>(ČSN EN 1899-1)  | Water, extracts      |
| 1.102 <sup>1)</sup>                | Determination of biochemical oxygen demand after n days (BODn) by method for undiluted samples   | <b>CZ_SOP_D06_02_078</b><br>(ČSN EN 1899-2)  | Water, extracts      |
| 1.103 <sup>1)</sup>                | Determination of colour by spectrometry  | <b>CZ_SOP_D06_02_079</b><br>(ČSN EN ISO 7887)  | Water, extracts      |
| 1.104 <sup>1)</sup>                | Determination of total phosphorus by discrete spectrophotometry and determination of phosphorus as P <sub>2</sub> O <sub>5</sub> and PO <sub>4</sub> <sup>3-</sup> by calculation from measured values   | <b>CZ_SOP_D06_02_080</b><br>(ČSN EN ISO 6878, ČSN EN ISO 15681-1)                        | Water, extracts      |

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|----------------------------------|---|--|---|
| 1.105                            | Reserved  |  |   |
| E <sub>1.106</sub> <sup>2)</sup> | Determination of chloride in absorption solution from emission sample of inorganic compounds of chlorine by potentiometric titration and hydrogen chloride determination by calculation from measured values                              | <b>CZ_SOP_D06_07_082</b><br>(ČSN EN 1911)  | Absorption solutions from emission sampling |
| E <sub>1.107</sub> <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 hydrogen fluoride determination by calculation from measured values | <b>CZ_SOP_D06_07_083</b><br>(ČSN 83 4752, Part 3)  | Absorption solutions from emission sampling |
| E <sub>1.108</sub> <sup>2)</sup> | Determination of sulfate in absorption solution from emission sample of sulphur dioxide by titration method and sulfur dioxide determination by calculation from measured values  | <b>CZ_SOP_D06_07_084</b><br>(ČSN EN 14791)   | Absorption solutions from emission sampling |
| E <sub>1.109</sub> <sup>2)</sup> | Determination of ammonia in absorption solution from emission sample by photometry after distillation   | <b>CZ_SOP_D06_07_085</b><br>(ČSN 83 4728, Part 4)  | Absorption solutions from emission sampling |
| 1.110                            | Reserved  |  |   |
| 1.111 <sup>2)</sup>              | Determination of pH, temperature and electrical conductivity by column test   | <b>CZ_SOP_D06_07_087</b><br>(ČSN PCEN/TS 14405,<br>ČSN ISO 10523, ČSN 75 7342,<br>ČSN EN 27888)  | Solid samples                               |
| 1.112 <sup>2)</sup>              | Determination of pH, temperature and electrical conductivity by two stage batch test  | <b>CZ_SOP_D06_07_088</b><br>(ČSN EN 12457-3, ČSN ISO 10523,<br>ČSN 75 7342, ČSN EN 27888)        | Solid samples                               |
| 1.113 <sup>1)</sup>              | Determination of total cyanide by spectrophotometry and determination of complex-forming cyanides by calculation from measured values   | <b>CZ_SOP_D06_02_089.A</b><br>(ČSN 75 7415, ČSN EN ISO 14403-2)                                  | Water, extracts                             |
| 1.114 <sup>1)</sup>              | Determination of total cyanide by spectrophotometry and determination of complex-forming cyanides by calculation from measured values   | <b>CZ_SOP_D06_02_089.B</b><br>(ČSN 75 7415, ČSN EN ISO 17380,<br>ČSN EN ISO 14403-2)             | Solid samples                               |
| 1.115 <sup>1)</sup>              | Determination of easily releasable cyanide (free cyanide) and cyanide dissociated by weak acid by spectrophotometry   | <b>CZ_SOP_D06_02_090.A</b><br>(ČSN ISO 6703-2, ČSN EN 16192,<br>ČSN EN ISO 14403-2, SM 4500 CN)  | Water, extracts                             |
| 1.116 <sup>1)</sup>              | Determination of easily releasable cyanide (free cyanide) and cyanide dissociated by weak acid by spectrophotometry   | <b>CZ_SOP_D06_02_090.A</b><br>(ČSN 75 7415, ČSN EN ISO 17380,<br>ČSN EN ISO 14403-2, SM 4500 CN) | Solid samples                               |
| 1.117                            | Reserved  |  |   |
| 1.118 <sup>1)</sup>              | Determination of chemical oxygen demand using permanganate (COD <sub>Mn</sub> ) by titration  | <b>CZ_SOP_D06_02_092</b><br>(ČSN EN ISO 8467, Z1)  | Water, extracts                             |
| 1.119                            | Reserved  |  |   |
| 1.120 <sup>1)</sup>              | Determination of bound nitrogen (TNb), following oxidation to nitrogen oxides by EC or IR detection   | <b>CZ_SOP_D06_02_094</b><br>(ČSN EN 12260)   | Water, extracts                             |

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|--|---|---|---|
| 1.121 <sup>1)</sup>                        | Qualitative determination of asbestos fibre by polarization microscope  | <b>CZ_SOP_D06_02_095</b><br>(NIOSH 9002)  | Solid samples   |
| 1.122 <sup>1)</sup>                        | Determination of Mercury by Fluorescence Spectrometry   | <b>CZ_SOP_D06_02_096</b><br>(US EPA 245.7, ČSN EN ISO 178 52, ČSN EN 16192, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 and 10.2)   | Water, extracts   |
| 1.123 <sup>1)</sup>                        | Determination of Mercury by Fluorescence Spectrometry   | <b>CZ_SOP_D06_02_096</b><br>(ČSN EN ISO 17852, PSA Application Note 025, ISO 16772, samples prepared as per CZ_SOP_D06_02_J02 (ČSN EN 13657, ISO 11466) Chap. 10.3 to 10.16, 10.17.5, 10.17.6, 10.17.9 to 10.17.14) | Solid samples   |
| 1.124 <sup>1)</sup>                        | Determination of Mercury by Fluorescence Spectrometry   | <b>CZ_SOP_D06_02_096</b><br>(ČSN EN ISO 178 52, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8)  | Biological material   |
| <sup>E</sup> 1.125 <sup>1)</sup>           | Determination of Mercury by Fluorescence Spectrometry   | <b>CZ_SOP_D06_02_096</b><br>(ČSN EN ISO 17852, EN 13211, EN 1483 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8)   | Emission, immission   |
| 1.126 <sup>1)</sup>                        | Determination of Mercury by Fluorescence Spectrometry   | <b>CZ_SOP_D06_02_096</b><br>(US EPA 245.7, ČSN EN ISO 178 52, ČSN EN 16192, ČL/PhEur/USP, samples prepared as per CZ_SOP_D06_02_J02 Chap. 10.20)  | Pharmaceutical material                                       |
| 1.127                                      | Reserved  |   |   |
| 1.128 <sup>1)</sup>                        | Determination of dissolved bromate, chlorate and chlorite by ion liquid chromatography method and determination of sum of chlorate and chlorite by calculation from measured values   | <b>CZ_SOP_D06_02_098</b><br>(ČSN EN ISO 15061, ČSN EN ISO 10304-4)  | Water, extracts   |
| 1.129 <sup>1)</sup>                        | Determination of chloride by discrete spectrophotometry   | <b>CZ_SOP_D06_02_099</b><br>(US EPA 325.1, SM 4500-Cl <sup>-</sup> )  | Water, extracts   |
| 1.130 <sup>1)</sup>                        | Determination of extractive substances by gravimetry  | <b>CZ_SOP_D06_02_100</b><br>(ČSN 75 7508, SM 5520B)   | Water   |
| 1.131 <sup>2)</sup>                        | Determination of reactive and non-labile aluminium by continuous flow analysis (CFA) spectrophotometrically and determination of labile aluminium by calculation from measured values | <b>CZ_SOP_D06_07_101</b><br>(company method SKALAR)   | Drinking, surface, waste water                                |
| 1.132 <sup>2)</sup>                        | Determination of total nitrogen by modified Kjeldahl method by spectrometry   | <b>CZ_SOP_D06_07_102</b><br>(ČSN ISO 11261)   | Solid sample with silicate matrix containing organic compound |
| 1.133 <sup>*</sup><br>1)2)4)5)6)7)<br>8)9) | Determination of oxidation-reduction potential (ORP) by potentiometry   | <b>CZ_SOP_D06_07_103</b><br>(ČSN 75 7367)   | Water   |

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|------------------------------------|--|---|--|
| 1.134 <sup>1)</sup>                | Determination of grease and oils by gravimetry (extraction after evaporation)  | <b>CZ_SOP_D06_02_104</b><br>(ČSN 75 7509)   | Water  |
| 1.135 <sup>1)</sup>                | Determination of pH by potentiometry   | <b>CZ_SOP_D06_02_105</b><br>(ČSN ISO 10523, US EPA 150.1, ČSN EN 16192, SM 4500-H <sup>+</sup> B)   | Water, extracts  |
| 1.136 <sup>1)</sup>                | Reserved   |   |  |
| 1.137 <sup>2)</sup>                | Determination of total nitrogen by modified Kjeldahl method  | <b>CZ_SOP_D06_07_107</b><br>(ČSN EN 25663, ČSN ISO 7150-1, SFS 5505)  | Water, extracts  |
| 1.138 <sup>1)</sup>                | Determination of settle able solids by volumetry   | <b>CZ_SOP_D06_02_108</b><br>(SM 2540 F)   | Water, extracts  |
| 1.139 <sup>1)</sup>                | Determination of dissolved silicates by discrete photometry and determination of H <sub>2</sub> SiO <sub>3</sub> and total mineralization by calculation from measured values                        | <b>CZ_SOP_D06_02_109</b><br>(ČSN EN ISO 16264, US EPA 370.1)  | Water, extracts  |
| 1.140 <sup>1)</sup>                | Determination of Chlorophyll by spectrophotometry  | <b>CZ_SOP_D06_02_110</b><br>(SM 10200 H)  | Surface waters <sup>67)</sup>  |
| 1.141 <sup>2)</sup>                | Determination of nitrate nitrogen, ammonium nitrogen and total soluble nitrogen using calcium chloride solution as extractant by continuous flow analysis (CFA) spectrophotometrically               | <b>CZ_SOP_D06_07_111</b><br>(DIN ISO 14255)   | Solid samples  |
| 1.142 <sup>2)</sup>                | Determination of phosphorus soluble in sodium hydrogen carbonate solution spectrophotometrically   | <b>CZ_SOP_D06_07_112</b><br>(ČSN ISO 11263)   | Solid samples  |
| 1.143 <sup>2)</sup>                | Determination of pH electrochemically in the soils suspension in water, KCl, CaCl <sub>2</sub> , BaCl <sub>2</sub>   | <b>CZ_SOP_D06_07_113</b><br>(ČSN ISO 10390, ČSN EN 12176, ČSN EN 13037, ČSN EN 15933, ČSN 46 5735 Amendment 1, L 1086-1, US EPA Method 9045D; US EPA SW-846 Method 9040 (Liquid) and SW-846 Method 9045 (Soil)) | Solid samples  |
| 1.144 <sup>2)</sup>                | Determination of formaldehyde by spectrophotometry   | <b>CZ_SOP_D06_07_114</b><br>(Chemical and physical methods of water analysis, SNTL Prague 1989)   | Water, extracts  |
| 1.145 <sup>2)</sup>                | Determination of releasable formaldehyde by spectrophotometry  | <b>CZ_SOP_D06_07_115</b><br>(ČSN EN ISO 14184-1, PV 3925)   | Materials, solid samples   |
| 1.146 <sup>2)</sup>                | Determination of iron(II) by spectrophotometry   | <b>CZ_SOP_D06_07_116</b><br>(ČSN ISO 6332)  | Water, extracts  |
| 1.147                              | Reserved   |   |  |
| 1.148                              | Reserved   |   |  |
| 1.149 <sup>1)</sup>                | Determination of aggressive carbon dioxide by the Heyer's method using calculation from alkalinity   | <b>CZ_SOP_D06_02_119</b><br>(ČSN 83 0530-14:2000)   | Water  |
| 1.150 <sup>2)</sup>                | Grain size analysis of solid samples using sieve analysis and laser diffraction  | <b>CZ_SOP_D06_07_120</b><br>(BS ISO 11277:2009)   | Solid samples<br>(grain size lower than 63 mm)   |
| 1.151 <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 determination of oxygen by calculation | <b>CZ_SOP_D06_07_121.A</b><br>(methodology LECO, ČSN ISO 29541, ČSN EN ISO 16994, ČSN EN ISO 16948, ČSN EN 15407, ČSN ISO 19579, ČSN EN 15408, ČSN ISO 10694)   | Solid samples, waste, sludge, lubricants, animal feeding stuff, plants, digestates, solid fossil fuels, solid biofuels, solid recovered fuel |

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|------------------------------------|--|---|---|
| 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 determination of oxygen by calculation | <b>CZ_SOP_D06_07_121.B</b><br>(methodology LECO)  | Oil, liquid fuels, combustible liquid wastes  |
| 1.153 <sup>1)</sup>                | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and trivalent chromium determination by calculation from measured values                                | <b>CZ_SOP_D06_02_122</b><br>except chap. 10.2; 11.3.2;<br>11.5; 12.2.2; 15.5<br>(ČSN EN 16192, EPA 7199,<br>SM 3500-Cr)   | Water, extracts   |
| 1.154 <sup>1)</sup>                | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and trivalent chromium determination by calculation from measured values                                | <b>CZ_SOP_D06_02_122</b><br>except chap. 10.1; 11.3.1; 12.2.1; 15.4<br>(ČSN EN 15192, EPA 3060A)  | Solid samples   |
| 1.155 <sup>2)</sup>                | Determination of weak acid dissociated (WAD) cyanide by spectrophotometry  | <b>CZ_SOP_D06_07_123.A</b><br>(SM 4500 CN <sup>-</sup> )  | Water, extracts   |
| 1.156 <sup>2)</sup>                | Determination of weak acid dissociated (WAD) cyanide by spectrophotometry  | <b>CZ_SOP_D06_07_123.B</b><br>(SM 4500 CN <sup>-</sup> )  | Solid samples   |
| 1.157 <sup>2)</sup>                | Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor by calculation from measured values   | <b>CZ_SOP_D06_07_124.A</b><br>(ČSN ISO 1928, ČSN EN 14918,<br>ČSN EN 15400, ČSN EN 15170,<br>ČSN DIN 51900-1, ČSN DIN 51900-2,<br>ČSN DIN 51900-3)                      | Solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge            |
| 1.158 <sup>2)</sup>                | Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor by calculation from measured values   | <b>CZ_SOP_D06_07_124.B</b><br>(ČSN DIN 51900-1, ČSN DIN 51900-2,<br>ČSN DIN 51900-3)  | Oils, liquid fuels, combustible liquid wastes                                       |
| 1.159 <sup>2)</sup>                | Determination of total chlorine, fluorine and sulphur by calculation from the measured values of chloride, fluoride and sulphate by IC method after burning the sample                               | <b>CZ_SOP_D06_07_124.C</b><br>(ČSN EN ISO 16994, ČSN EN 15408,<br>ČSN EN 14582) with the determination of chloride, fluoride and sulfate by IC as per CZ_SOP_D06_02_068 | Solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge            |
| 1.160 <sup>2)</sup>                | Determination of total chlorine, fluorine and sulphur by calculation from the measured values of chloride, fluoride and sulphate by IC method after burning the sample                               | <b>CZ_SOP_D06_07_124.D</b><br>with the determination of chloride, fluoride and sulfate by IC as per CZ_SOP_D06_02_068   | Oils, liquid fuels, combustible liquid wastes                                       |
| 1.161 <sup>2)</sup>                | Determination of laboratory compacted bulk density (LCBD)  | <b>CZ_SOP_D06_07_125</b><br>(ČSN EN 13040)  | Sludge, composts, soils meliorants and growth stimulants                            |
| 1.162 <sup>2)</sup>                | Determination of electrical conductivity   | <b>CZ_SOP_D06_07_126</b><br>(ČSN EN 13038, ČSN ISO 11265,<br>ČSN P CEN/TS 15937)  | Sludge, composts, soils, soils meliorants and growth stimulants, modified bio waste |
| <sup>E</sup> 1.163 <sup>1)</sup>   | Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and trivalent chromium determination by calculation from measured values                                | <b>CZ_SOP_D06_02_127</b><br>(ISO 16740, EPA 425)  | Emission, immission   |
| <sup>E</sup> 1.164 <sup>1)</sup>   | Determination of nitrogen dioxide and sulfur dioxide in passive samplers by ion chromatography method and results recalculation to the volume of air   | <b>CZ_SOP_D06_02_128</b><br>(materials of Instituto Fondazione Salvatore Maugeri, ČSN ISO 10304-1, ČSN EN ISO 10304-3)  | Emission, immission   |
| 1.165 <sup>1)</sup>                | Determination of sulphite by ion chromatography method   | <b>CZ_SOP_D06_02_129</b><br>(ČSN EN ISO 10304-3)  | Water, extracts   |

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| <b>Ordinal number<sup>1)</sup></b> | <b>Test procedure/method name</b>  | <b>Test procedure/method identification</b>  | <b>Tested object</b>                                      |
|------------------------------------|--|--|---|
| 1.166 <sup>2)</sup>                | Determination of volatile matter by gravimetry   | <b>CZ_SOP_D06_07_130</b><br>(ČSN ISO 562, ČSN ISO 5071-1, ČSN EN ISO 18123, ČSN EN 15402)                          | Solid fossil fuels, solid biofuels, solid recovered fuels |
| 1.167 <sup>2)</sup>                | Determination of sulphite after distillation by titration  | <b>CZ_SOP_D06_07_131</b><br>( <i>M. Horáková et al.: Chemical and physical methods of water analyses</i> )         | Water, extracts   |
| 1.168 <sup>2)</sup>                | Determination of respiratory activity (AT <sub>4</sub> ) using respirometer  | <b>CZ_SOP_D06_07_132</b><br>(ÖNORM S 2027-4)   | Wastes, sludge, composts, soils                           |
| 1.169*<br>1)2)4)5)6)7)8)9)         | Field determination of ozone using HACH sets   | <b>CZ_SOP_D06_07_133</b><br>(Method 8311 HACH Company, USA)  | Drinking water  |
| <sup>E</sup> 1.170 <sup>1)</sup>   | Determination of fluoride, chloride and sulfate in absorption solution from emission sample by ion chromatographic method and determination of hydrogen fluoride, hydrogen chloride and sulfur dioxide by calculation from measured values | <b>CZ_SOP_D06_02_134</b><br>(ČSN EN 1911, STN ISO 15713, ČSN EN 14791, ČSN EN ISO 10304-1)                         | Emission  |
| 1.171 <sup>1)</sup>                | Determination of non-polar extractable compounds by UV spectrometry  | <b>CZ_SOP_D06_02_135</b><br>except chap. 10.2<br>(ČSN 83 0540-4: 1998, STN 83 0540-4)                              | Water, extracts   |
| 1.172 <sup>1)</sup>                | Determination of non-polar extractable compounds by UV spectrometry  | <b>CZ_SOP_D06_02_135</b><br>except chap. 10.1<br>(ČSN 83 0540-4: 1998, STN 83 0540-4)                              | Solid samples   |
| 1.173 <sup>1)</sup>                | Determination of total dust concentration and respirable dust fraction by gravimetry and results recalculation to the volume of air  | <b>CZ_SOP_D06_02_136</b><br>(ČSN EN 481, ČSN EN 482+A1, ČSN EN 689, NIOSH 0500, NIOSH 0600, GR No. 361/2007 Coll.) | Working environment                                       |
| 1.174 <sup>2)</sup>                | Determination of SiO <sub>2</sub> in silicate materials after decomposition by gravimetry  | <b>CZ_SOP_D06_07_137</b><br>(ČSN 72 0105 No. 1)  | Solid samples   |
| 1.175 <sup>2)</sup>                | Determination of P <sub>2</sub> O <sub>5</sub> in silicate materials after decomposition by spectrophotometry  | <b>CZ_SOP_D06_07_138</b><br>(ČSN 72 0116 No. 1)  | Solid samples   |
| 1.176 <sup>2)</sup>                | Determination of total sulfur in silicate materials after decomposition by gravimetry  | <b>CZ_SOP_D06_07_139</b><br>(ČSN 72 0118)  | Solid samples   |
| 1.177<br>1)2)4)5)6)7)8)9)          | Determination of CO <sub>2</sub> in mineral water by Härt's instrument   | <b>CZ_SOP_D06_01_140</b><br>(Technosklo s.r.o. method)   | Mineral water   |
| 1.178<br>1)2)4)5)6)7)8)9)          | 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 determination of N <sub>2</sub> by calculation from measured values   | <b>CZ_SOP_D06_01_141</b><br>(BIOGAS 5000 analyzer manual)  | Gases   |
| 1.179<br>1)2)4)5)6)7)8)9)          | Determination of humidity by analyzer of gas humidity  | <b>CZ_SOP_D06_01_142</b><br>(ČSN EN 14790)   | Gases   |
| 1.180 <sup>2)</sup>                | Determination of total inorganic fluorine after separation by distillation by direct potentiometry   | <b>CZ_SOP_D06_07_143</b><br>except chap. 10 and 13.1<br>(ČSN ISO 10359-2, ČSN 83 4752-3)                           | Water, extracts, liquid samples                           |
| 1.181 <sup>2)</sup>                | Determination of total inorganic fluorine after separation by distillation by direct potentiometry   | <b>CZ_SOP_D06_07_143</b><br>(ČSN ISO 10359-2, ČSN 83 4752-3)   | Solid samples   |
| 1.182 <sup>2)</sup>                | Determination of the biomass by selective dissolution  | <b>CZ_SOP_D06_07_144</b><br>(ČSN EN 15440, annex A)  | Solid alternative fuels, solid combustible wastes         |



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**Tests: ORGANIC CHEMISTRY**

| <b>Ordinal number</b> | <b>Test procedure/Method name</b>   | <b>Test procedure/Method identification</b>  | <b>Tested object</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  | <b>CZ_SOP_D06_03_150</b><br>(ČSN EN 14039, ČSN EN ISO 16703, ISO 16558-2, US EPA 8015, US EPA 3550, TNRCC Method 1006)   | Solid samples                   |
| 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  | <b>CZ_SOP_D06_03_151</b><br>(ČSN EN ISO 9377-2, Z1, US EPA 8015, US EPA 3510, TNRCC Method 1006)   | Water, extracts                 |
| 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   | <b>CZ_SOP_D06_03_152</b><br>except chap. 9.1<br>(TNRCC Method 1006, TNRCC Method 1005)   | Water, extracts, liquid samples |
| 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   | <b>CZ_SOP_D06_03_152</b><br>except chap. 9.2<br>(TNRCC Method 1006, TNRCC Method 1005)   | Solid samples                   |
| E2.5 <sup>1)</sup>    | Determination of volatile organic compounds <sup>1)</sup> 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                         | <b>CZ_SOP_D06_03_153</b><br>(NIOSH <sup>1)</sup> )   | Solid sorbent                   |
| E2.6 <sup>1)</sup>    | Determination of volatile organic compounds <sup>2)</sup> by gas chromatography method with thermal desorption with detection FID and MS and calculation of volatile organic compounds sums from measured values and results recalculation to the volume of air | <b>CZ_SOP_D06_03_154</b><br>(US EPA TO-17, ČSN EN ISO 16017-1)   | Solid sorbent                   |
| 2.7 <sup>1)</sup>     | Determination of volatile organic compounds <sup>3)</sup> by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values  | <b>CZ_SOP_D06_03_155</b><br>except chap. 10.5, 10.6<br>(US EPA 624, US EPA 8260, US EPA 8015, EN ISO 10301, MADEP 2004, rev. 1.1, ISO 11423, ISO 15680)            | Water, extracts                 |
| 2.8 <sup>1)</sup>     | Determination of volatile organic compounds <sup>3)</sup> by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values  | <b>CZ_SOP_D06_03_155</b><br>except chap. 10.4<br>(US EPA 8260, US EPA 5021A, US EPA 5021, US EPA 8015, ISO 22155, ISO 15009, EN ISO 16558-1, MADEP 2004, rev. 1.1) | Solid samples                   |
| 2.9 <sup>1)</sup>     | Determination of volatile organic compounds <sup>4)</sup> by gas chromatography method with detection FID and ECD and calculation of volatile organic compounds sums from measured values   | <b>CZ_SOP_D06_03_156</b><br>except chap. 11.3 - 11.5<br>(US EPA 601, US EPA 8260, US EPA 8015, RBCA Petroleum Hydrocarbon Methods, ISO 11423, ISO 15680)           | Water, extracts                 |
| 2.10 <sup>1)</sup>    | Determination of volatile organic compounds <sup>4)</sup> by gas chromatography method with detection FID and ECD and calculation of volatile organic compounds sums from measured values   | <b>CZ_SOP_D06_03_156</b><br>except chap. 11.1, 11.2<br>(US EPA 8260, US EPA 8015, ISO 22155, ISO 15009, EN ISO 16558-1, RBCA Petroleum Hydrocarbon Methods)        | Solid samples                   |

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|-----------------------|--|---|---|
| 2.11 <sup>1)</sup>    | Determination of organic contaminants <sup>5)</sup> by gas chromatography method with MS detection (SPIMFAB) and calculation of organic contaminants sums from measured values                                       | <b>CZ_SOP_D06_03_157</b><br>except chap. 9.2<br>(SPIMFAB)   | Water                                       |
| 2.12 <sup>1)</sup>    | Determination of organic contaminants <sup>5)</sup> by gas chromatography method with MS detection (SPIMFAB) and calculation of organic contaminants sums from measured values                                       | <b>CZ_SOP_D06_03_157</b><br>except chap. 9.1<br>(SPIMFAB)   | Solid samples                               |
| 2.13 <sup>1)</sup>    | Determination of phenols, chlorinated phenols and cresols <sup>6)</sup> by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values | <b>CZ_SOP_D06_03_158</b><br>except chap. 9.3, 9.4<br>(US EPA 8041, US EPA 3500,<br>ČSN EN 12673)  | Water                                       |
| 2.14 <sup>1)</sup>    | Determination of phenols, chlorinated phenols and cresols <sup>6)</sup> by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values | <b>CZ_SOP_D06_03_158</b><br>except chap. 9.1, 9.2, 9.4<br>(US EPA 8041, US EPA 3500,<br>DIN ISO 14154)  | Solid samples                               |
| E2.15 <sup>1)</sup>   | Determination of phenols, chlorinated phenols and cresols <sup>6)</sup> by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values | <b>CZ_SOP_D06_03_158</b><br>except chap. 9.1, 9.2, 9.3<br>(US EPA 8041, US EPA 3500,<br>DIN ISO 14154)  | Emission, immission                         |
| 2.16 <sup>1)</sup>    | Determination of phthalates <sup>7)</sup> by gas chromatography method with MS detection and calculation of phthalates sums from measured values   | <b>CZ_SOP_D06_03_159</b><br>except chap. 9.2 and 9.3<br>(US EPA 8061A)  | Water                                       |
| 2.17 <sup>1)</sup>    | Determination of phthalates <sup>7)</sup> by gas chromatography method with MS detection and calculation of phthalates sums from measured values   | <b>CZ_SOP_D06_03_159</b><br>except chap. 9.1<br>(US EPA 8061A,<br>CPSC-CH-C1001-09.3)   | Solid samples                               |
| 2.18 <sup>1)</sup>    | Determination of phenols and cresols <sup>40)</sup> by gas chromatography method with MS detection and calculation of phenols and cresols sums from measured values  | <b>CZ_SOP_D06_03_160</b><br>except chap. 9.2<br>(US EPA 8041A, US EPA 3500)   | Water, extracts                             |
| 2.19 <sup>1)</sup>    | Determination of phenols and cresols <sup>40)</sup> by gas chromatography method with MS detection and calculation of phenols and cresols sums from measured values  | <b>CZ_SOP_D06_03_160</b><br>except chap. 9.1<br>(US EPA 8041A, US EPA 3500)   | Solid samples                               |
| 2.20 <sup>1)</sup>    | Determination of semi volatile organic compounds <sup>9)</sup> by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values                  | <b>CZ_SOP_D06_03_161</b><br>(US EPA 8270, ČSN EN ISO 6468,<br>US EPA 8000D, samples prepared as<br>per CZ_SOP_D06_03_P01 chap. 9.1,<br>9.4.1) | Water, extracts                             |
| 2.21 <sup>1)</sup>    | Determination of semi volatile organic compounds <sup>9)</sup> by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values                  | <b>CZ_SOP_D06_03_161</b><br>(US EPA 8270, ČSN EN 15527,<br>ISO 18287, samples prepared as per<br>CZ_SOP_D06_03_P01<br>chap. 9.2, 9.3, 9.4.2)  | Solid samples                               |
| 2.22 <sup>1)</sup>    | Determination of polycyclic aromatic hydrocarbons <sup>10)</sup> by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values            | <b>CZ_SOP_D06_03_162</b><br>(US EPA 550)  | Drinking water, table water, suckling water |

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|-----------------------|--|---|---|
| 2.23 <sup>1)</sup>    | Determination of polycyclic aromatic hydrocarbons <sup>10)</sup> by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_03_163</b><br>except chap. 9.1.2, 9.4.2<br>(US EPA 610, EN ISO 17993)   | Water, extracts                                 |
| 2.24 <sup>1)</sup>    | Determination of polycyclic aromatic hydrocarbons <sup>10)</sup> by liquid chromatography method with detection FLD and PDA and calculation of polycyclic aromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_03_163</b><br>except chap. 9.1.1, 9.4.1<br>(US EPA 610, US EPA 3550, ISO 13877)   | Solid samples                                   |
| 2.25 <sup>1)</sup>    | Determination of glycols <sup>26)</sup> by gas chromatography method with MS detection   | <b>CZ_SOP_D06_03_164</b>  | Water, cooling liquids, anti-freeze fluid       |
| E2.26 <sup>1)</sup>   | Determination of polycyclic aromatic hydrocarbons <sup>10)</sup> 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 | <b>CZ_SOP_D06_03_165</b><br>(ISO 11338-2)   | Emission, immission                             |
| 2.27 <sup>1)</sup>    | Determination of polychlorinated biphenyls <sup>39)</sup> -congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values  | <b>CZ_SOP_D06_03_166</b><br>(DIN 38407, part 2, US EPA 8082, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1)                      | Water, extracts                                 |
| 2.28 <sup>1)</sup>    | Determination of polychlorinated biphenyls <sup>11)</sup> congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values   | <b>CZ_SOP_D06_03_166</b><br>(US EPA 8082, ISO 10382, ČSN EN 15308, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.2, 9.3, CZ_SOP_D06_03_P02 chap. 9.2, 9.3, 9.4) | Solid samples, sealing material                 |
| 2.29 <sup>1)</sup>    | Determination of alkylphenols and alkylphenol ethoxylates <sup>28)</sup> by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values                                   | <b>CZ_SOP_D06_03_167</b><br>(European Standard BT WI CSS99040)  | Solid samples                                   |
| 2.30 <sup>1)</sup>    | Determination of polychlorinated biphenyls <sup>11)</sup> congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values   | <b>CZ_SOP_D06_03_168</b><br>(ČSN EN 12766-1, ČSN EN 61619)  | Oil hydrocarbons, used oils, insulating liquids |
| 2.31 <sup>1)</sup>    | Determination of organochlorine pesticides <sup>12)</sup> and other halogen compounds <sup>34)</sup> by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values  | <b>CZ_SOP_D06_03_169</b><br>(ČSN EN ISO 6468, US EPA 8081, DIN 38407-2, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1)           | Water, extracts                                 |
| 2.32 <sup>1)</sup>    | Determination of organochlorine pesticides and other halogen compounds <sup>12)</sup> by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values                 | <b>CZ_SOP_D06_03_169</b><br>(US EPA 8081, ISO 10382, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.2, CZ_SOP_D06_03_P02 chap. 9.2)                              | Solid samples                                   |
| 2.33 <sup>1)</sup>    | Determination of organochlorine pesticides and other halogen compounds <sup>12)</sup> by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values                 | <b>CZ_SOP_D06_03_169</b><br>(US EPA 8081, samples prepared as per CZ_SOP_D06_03_P02 chap. 9.5)  | Oils  |

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| Ordinal number      | Test procedure/Method name   | Test procedure/Method identification   | Tested object             |
|---------------------|--|--|---------------------------|
| E2.34 <sup>1)</sup> | Determination of organochlorine pesticides and other halogen compounds <sup>12)</sup> by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values | <b>CZ_SOP_D06_03_169</b><br>(US EPA 8081, samples prepared as per CZ_SOP_D06_03_P02 chap. 9.6)                                       | Sorption materials        |
| E2.35 <sup>3)</sup> | Determination of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofuranes <sup>13)</sup> in emissions by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values                             | <b>CZ_SOP_D06_06_170</b><br>(US EPA 23-modified, US EPA 23A-modified)  | Emission                  |
| 2.36 <sup>3)</sup>  | Determination of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofuranes <sup>13)</sup> in immission by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values                             | <b>CZ_SOP_D06_06_171</b><br>(US EPA TO-9A-modified)  | Immission                 |
| E2.37 <sup>3)</sup> | Determination of coplanar polychlorinated biphenyls <sup>14)</sup> in stationary emission sources by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values                          | <b>CZ_SOP_D06_06_172</b><br>(JIS K 0311, modified)   | Emission, immission       |
| 2.38 <sup>3)</sup>  | Determination of polychlorinated biphenyls <sup>14)</sup> by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values  | <b>CZ_SOP_D06_06_173</b><br>except chap. 10.2.3.2-10.2.3.8, 10.2.4, 10.2.5 (US EPA 1668, modified, ČSN P CEN/TS 16190-modified)      | Water                     |
| 2.39 <sup>3)</sup>  | Determination of polychlorinated biphenyls <sup>14)</sup> by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values  | <b>CZ_SOP_D06_06_173</b><br>except chap. 10.2.3.1, 10.2.3.7, 10.2.3.8, 10.2.5<br>(US EPA 1668-modified, ČSN P CEN/TS 16190-modified) | Solid samples             |
| 2.40 <sup>3)</sup>  | Determination of polychlorinated biphenyls <sup>14)</sup> by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values  | <b>CZ_SOP_D06_06_173</b><br>except chap. 10.2.3.1-10.2.3.7, 10.2.4<br>(US EPA 1668-modified, ČSN P CEN/TS 16190 - modified)          | Biological matrices       |
| 2.41 <sup>3)</sup>  | Determination of polychlorinated biphenyls <sup>14)</sup> by isotope dilution method using HRGC-HRMS and calculation of PCB sum and TEQ parameter from measured values   | <b>CZ_SOP_D06_06_173</b><br>except chap. 10.2.3.1-10.2.3.6<br>(US EPA 1668-modified, ČSN P CEN/TS 16190 - modified)                  | SPMD extracts, food, feed |
| E2.42 <sup>3)</sup> | Determination of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofuranes <sup>13)</sup> in emission samples by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values                      | <b>CZ_SOP_D06_06_174</b><br>(ČSN EN 1948-2-modified, ČSN EN 1948-3-modified)   | Emission                  |
| 2.43 <sup>3)</sup>  | Determination of tetra- to octa-chlorinated dioxins and furanes <sup>13)</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values   | <b>CZ_SOP_D06_06_175</b><br>except chap. 10.2.3.2-10.2.3.8, 10.2.4, 10.2.5 (US EPA 1613-modified, ČSN P CEN/TS 16190-modified)       | Water                     |
| 2.44 <sup>3)</sup>  | Determination of tetra- to octa-chlorinated dioxins and furanes <sup>13)</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values   | <b>CZ_SOP_D06_06_175</b><br>except chap. 10.2.3.1, 10.2.3.7, 10.2.3.8, 10.2.5<br>(US EPA 1613-modified, ČSN P CEN/TS 16190-modified) | Solid samples             |
| 2.45 <sup>3)</sup>  | Determination of tetra- to octa- chlorinated dioxins and furanes <sup>13)</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values  | <b>CZ_SOP_D06_06_175</b><br>except chap. 10.2.3.1-10.2.3.7, 10.2.4<br>(US EPA 1613-modified, ČSN P CEN/TS 16190-modified)            | Biological matrices       |

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| <b>Ordinal number</b> | <b>Test procedure/Method name</b>  | <b>Test procedure/Method identification</b>   | <b>Tested object</b>         |
|-----------------------|--|---|------------------------------|
| 2.46 <sup>3)</sup>    | Determination of tetra- to octa- chlorinated dioxins and furanes <sup>13)</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values                                      | <b>CZ_SOP_D06_06_175</b><br>except chap.10.2.3.1-10.2.3.6<br>(US EPA 1613-modified,<br>ČSN P CEN/TS 16190-modified)   | SPMD extracts, food,<br>feed |
| 2.47 <sup>3)</sup>    | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) <sup>13)</sup> using HRGC-HRMS and calculation of TEQ parameters from measured values                                  | <b>CZ_SOP_D06_06_176</b><br>except chap. 10.2.3.2-10.2.3.7,<br>10.2.4, 10.2.5<br>(US EPA 8290-modified)   | Water                        |
| 2.48 <sup>3)</sup>    | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) <sup>13)</sup> using HRGC-HRMS and calculation of TEQ parameters from measured values                                  | <b>CZ_SOP_D06_06_176</b><br>except chap. 10.2.3.1, 10.2.3.6, 10.2.5<br>(US EPA 8290-modified)   | Solid samples                |
| 2.49 <sup>3)</sup>    | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) <sup>13)</sup> using HRGC-HRMS and calculation of TEQ parameters from measured values                                  | <b>CZ_SOP_D06_06_176</b><br>except chap. 10.2.3.1-10.2.3.6, 10.2.4<br>(US EPA 8290-modified)  | Biological matrices          |
| 2.50 <sup>3)</sup>    | Determination of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) <sup>13)</sup> using HRGC-HRMS and calculation of TEQ parameters from measured values                                  | <b>CZ_SOP_D06_06_176</b><br>except chap. 10.2.3.1-10.2.3.6<br>(US EPA 8290-modified)  | Food, feed                   |
| 2.51 <sup>3)</sup>    | Determination of selected brominated flammable retarders (BFR) <sup>15)</sup> by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values                   | <b>CZ_SOP_D06_06_177</b><br>except chap. 10.2.3.2 - 10.2.3.8,<br>10.2.4, 10.2.5<br>(US EPA 1614-modified)   | Water                        |
| 2.52 <sup>3)</sup>    | Determination of selected brominated flammable retarders (BFR) <sup>15)</sup> by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values                   | <b>CZ_SOP_D06_06_177</b><br>except chap. 10.2.3.1, 10.2.3.7,<br>10.2.3.8, 10.2.5<br>(US EPA 1614-modified,<br>ČSN, EN 16377-modified,<br>ČSN EN ISO 22032-modified) | Solid samples                |
| 2.53 <sup>3)</sup>    | Determination of selected brominated flammable retarders (BFR) <sup>15)</sup> by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values                   | <b>CZ_SOP_D06_06_177</b><br>except chap. 10.2.3.1 - 10.2.3.7, 10.2.4,<br>(US EPA 1614-modified)   | Biological matrices          |
| 2.54 <sup>3)</sup>    | Determination of selected brominated flammable retarders (BFR) <sup>15)</sup> by isotope dilution method using HRGC-HRMS and calculation of brominated flammable retarders sums from measured values                   | <b>CZ_SOP_D06_06_177</b><br>except chap. 10.2.3.1 - 10.2.3.6,<br>(US EPA 1614-modified)   | SPMD extracts, food,<br>feed |
| 2.55 <sup>1)</sup>    | Determination of alkylphenols and alkylphenol ethoxylates <sup>16)</sup> by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values | <b>CZ_SOP_D06_03_178</b><br>(ISO 18857-2)   | Water                        |
| E2.56 <sup>3)</sup>   | Determination of PCB <sup>14)</sup> in emission samples by isotope dilution method using HRGC-HRMS and calculation of PCB sums from measured values  | <b>CZ_SOP_D06_06_179</b><br>(ČSN EN 1948-4-modified,<br>EPA TO-4A - modified)   | Emission, immission          |

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| <b>Ordinal number</b>           | <b>Test procedure/Method name</b>   | <b>Test procedure/Method identification</b>   | <b>Tested object</b>      |
|---------------------------------|---|---|---------------------------|
| 2.57 <sup>3)</sup>              | Determination of polycyclic aromatic hydrocarbons <sup>54)</sup> by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_06_180</b><br>except chap. 10.3.3.1 - 10.3.3.6, 10.3.3.8 - 10.3.3.10, 10.3.5<br>(US EPA 429-modified, ISO 11338-modified, US EPA 3540-modified)   | Solid samples             |
| <sup>E</sup> 2.58 <sup>3)</sup> | Determination of polycyclic aromatic hydrocarbons <sup>54)</sup> by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_06_180</b><br>except chap. 10.3.3.6 - 10.3.3.10, 10.3.4, 10.3.5<br>(US EPA 429-modified, ISO 11338-modified, EPA TO-13A-modified)                 | Emission, immission       |
| 2.59 <sup>3)</sup>              | Determination of polycyclic aromatic hydrocarbons <sup>54)</sup> by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_06_180</b><br>except chap. 10.3.3.1 - 10.3.3.9, 10.3.4<br>(US EPA 429-modified, STN EN 16619-modified)  | Biological matrices       |
| 2.60 <sup>3)</sup>              | Determination of polycyclic aromatic hydrocarbons <sup>54)</sup> by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_06_180</b><br>except chap. 10.3.3.1 - 10.3.3.8<br>(US EPA 429-modified, STN EN 16619-modified)  | SPMD extracts, food, feed |
| 2.61 <sup>3)</sup>              | Determination of polycyclic aromatic hydrocarbons <sup>54)</sup> by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values  | <b>CZ_SOP_D06_06_180</b><br>except chap. 10.3.3.1 - 10.3.3.7, 10.3.3.9, 10.3.3.10, 10.3.4, 10.3.5<br>(US EPA 429-modified, ISO 11338-modified, IP 346-modified) | Oils                      |
| 2.62 <sup>1)</sup>              | Determination of semi-volatile organic compounds <sup>27)</sup> by isotopic dilution method using gas chromatography method with MS detection and calculation of semi-volatile organic compounds sums from measured values  | <b>CZ_SOP_D06_03_181</b><br>(US EPA 429, US EPA 1668, US EPA 3550)  | Solid samples             |
| 2.63 <sup>1)</sup>              | Determination of acidic herbicides, drug residues and other pollutants <sup>29)</sup> by liquid chromatography method with MS/MS detection and calculation of acidic herbicides, drug residues and other pollutants sums from measured values                                   | <b>CZ_SOP_D06_03_182.A</b><br>(DIN 38407-35, CEN/TS 15968)  | Water, liquid samples     |
| 2.64 <sup>1)</sup>              | Determination of acidic herbicides and drug residues <sup>29A)</sup> by liquid chromatography method with MS/MS detection   | <b>CZ_SOP_D06_03_182.B</b><br>(ČSN EN 15637, US EPA 1694)   | Solid samples             |
| 2.65 <sup>1)</sup>              | Determination of pesticides, pesticide metabolites, drug residues and other pollutants <sup>30)</sup> by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values   | <b>CZ_SOP_D06_03_183.A</b><br>(US EPA 535, US EPA 1694)   | Water, liquid samples     |
| 2.66 <sup>1)</sup>              | Determination of pesticides, pesticide metabolites, drug residues and other pollutants <sup>30A)</sup> by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticides metabolites, drug residues and other pollutants sums from measured values | <b>CZ_SOP_D06_03_183.B</b><br>(ČSN EN 15637, US EPA 1694)   | Solid samples             |



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| <b>Ordinal number</b> | <b>Test procedure/Method name</b>  | <b>Test procedure/Method identification</b>  | <b>Tested object</b>                                 |
|-----------------------|--|--|--|
| 2.67 <sup>1)</sup>    | Determination of pesticides, pesticide metabolites, drug residues and other polutants <sup>30B)</sup> by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticides metabolites, drug residues and other pollutants sums from measured values | <b>CZ_SOP_D06_03_183.C</b><br>(ČSN EN 15662)   | Vegetable and animal materials                       |
| 2.68 <sup>1)</sup>    | Determination of pesticides <sup>31)</sup> by gas chromatography method with MS or MS/MS detection and calculation of pesticides sums from measured values   | <b>CZ_SOP_D06_03_184</b><br>(US EPA 8141B,<br>US EPA 3535A)  | Water, liquid samples                                |
| 2.69 <sup>1)</sup>    | Determination of pesticides and pesticide metabolites <sup>32)</sup> by derivatization and liquid chromatography method with MS/MS detection and calculation of pesticides and pesticide metabolites sums from measured values   | <b>CZ_SOP_D06_03_185</b><br>(ČSN ISO 21458)  | Water, liquid samples                                |
| 2.70 <sup>1)</sup>    | Determination of complexing substances <sup>33)</sup> by gas chromatography method with MS detection   | <b>CZ_SOP_D06_03_186</b><br>(ČSN EN ISO 16588)   | Water  |
| E2.71 <sup>1)</sup>   | Determination of polycyclic aromatic hydrocarbons derivatives <sup>36)</sup> by liquid chromatography method with MS detection   | <b>CZ_SOP_D06_03_187</b><br>(Determination of oxygenated polycyclic aromatic hydrocarbons in particulate matter using high-performance liquid chromatography–tandem mass spectrometry;<br>J. Chrom. A, 1133 (2006) 241–247)  | Emission, immission                                  |
| 2.72 <sup>1)</sup>    | Determination of organic acids <sup>37)</sup> by capillary electrophoresis method with UV detection  | <b>CZ_SOP_D06_03_188.A</b><br>(Lumex manual, Kudrjashova, M.:<br>Capillary electrophoretic monitoring of microbial growth: determination of organic acids, COPYRIGHT 2004<br>Estonian Academy Publishers, June,<br>2004 Source Volume: 53 Source Issue:<br>2, ISSN: 1406-0124) | Water, liquid samples                                |
| 2.73 <sup>1)</sup>    | Determination of organic acids <sup>37)</sup> by capillary electrophoresis method with UV detection  | <b>CZ_SOP_D06_03_188.B</b><br>(Lumex manual, Kudrjashova, M.:<br>Capillary electrophoretic monitoring of microbial growth: determination of organic acids, COPYRIGHT 2004<br>Estonian Academy Publishers, June,<br>2004 Source Volume: 53 Source Issue:<br>2, ISSN: 1406-0124) | Feed, composts,<br>digestate, physiological<br>fluid |
| 2.74 <sup>1)</sup>    | Determination of gases <sup>38)</sup> by gas chromatography method with detection FID and TCD  | <b>CZ_SOP_D06_03_189</b><br>(EPA Method RSK-175)   | Water, liquid samples                                |
| 2.75 <sup>1)</sup>    | Low limit determination of volatile organic compounds <sup>3)</sup> by gas chromatography method with MS detection and calculation of volatile organic compounds sums from measured values   | <b>CZ_SOP_D06_03_190</b><br>(US EPA 5021, US EPA 8260)   | Water  |
| 2.76 <sup>1)</sup>    | Low limit determination of volatile organic compounds <sup>3)</sup> by gas chromatography method with MS detection and calculation of volatile organic compounds sums from measured values   | <b>CZ_SOP_D06_03_190</b><br>(US EPA 5021, US EPA 8260)   | Solid samples  |
| 2.77                  | Reserved   |  |  |

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| <b>Ordinal number</b> | <b>Test procedure/Method name</b>  | <b>Test procedure/Method identification</b>   | <b>Tested object</b>            |
|-----------------------|--|---|---------------------------------|
| 2.78 <sup>1)</sup>    | Determination of chlorinated alkanes <sup>34)</sup> by gas chromatography method with MS/MS detection  | <b>CZ_SOP_D06_03_192</b><br><b>except chap. 10.2</b><br>(ISO 12010)   | Water, liquid samples           |
| 2.79 <sup>1)</sup>    | Determination of chlorinated alkanes <sup>34)</sup> by gas chromatography method with MS/MS detection  | <b>CZ_SOP_D06_03_192</b><br><b>except chap. 10.1</b><br>(ISO 12010)   | Solid samples                   |
| 2.80 <sup>1)</sup>    | Determination of aniline and aniline derivatives <sup>21)</sup> by gas chromatography method with MS detection   | <b>CZ_SOP_D06_03_193</b><br>(US EPA 8270)   | Solid samples                   |
| 2.81 <sup>1)</sup>    | Determination of chlorinated phenols <sup>55)</sup> by liquid chromatography method with MS/MS detection   | <b>CZ_SOP_D06_03_194</b>  | Water, liquid samples           |
| 2.82 <sup>1)</sup>    | Determination of drug residues <sup>56)</sup> by liquid chromatography with MS/MS detection and results recalculation to the volume of air   | <b>CZ_SOP_D06_03_195</b><br>(Jia Yu et al.: Biomed. Chromatogr. 2011; 25: 511–516)                                | Working environment             |
| 2.83 <sup>1)</sup>    | Determination of epichlorohydrine by gas chromatography method with MS/MS detection  | <b>CZ_SOP_D06_03_196</b><br>(Application list Agilent Technologies 5990-6433EN)                                   | Water                           |
| 2.84 <sup>1)</sup>    | Determination of perfluorinated and brominated compounds <sup>58)</sup> by liquid chromatography with MS/MS detection  | <b>CZ_SOP_D06_03_197.A</b><br>(US EPA 537)  | Water, liquid samples           |
| 2.85 <sup>1)</sup>    | Determination of perfluorinated and brominated compounds <sup>58A)</sup> by liquid chromatography with MS/MS detection   | <b>CZ_SOP_D06_03_197.B</b><br>(DIN 38414)   | Solid samples                   |
| 2.86 <sup>1)</sup>    | Determination of volatile organic compounds <sup>59)</sup> by gas chromatography method with TCD and FID detection and calculation of volatile organic compounds percentage from measured values | <b>CZ_SOP_D06_03_198</b><br>(ČSN EN ISO 11890-2)  | Solid samples                   |
| 2.87 <sup>3)</sup>    | Determination of fat by gravimetry   | <b>CZ_SOP_D06_06_199</b><br>(US EPA 1613)   | Food, feed, biological material |
| 2.88 <sup>1)</sup>    | Determination of 3-chlor-1,2-propandiol by gas chromatography method with MS detection   | <b>CZ_SOP_D06_03_200</b><br>(LMBG 52.02(1))   | Spices                          |
| 2.89 <sup>1)</sup>    | Determination of drug residues <sup>61)</sup> by liquid chromatography method with MS / MS detection   | <b>CZ_SOP_D06_03_201.A</b><br>(US EPA 1694)   | Water                           |
| 2.90 <sup>1)</sup>    | Determination of organic acids <sup>62)</sup> by gas chromatography method with FID detection  | <b>CZ_SOP_D06_03_202</b><br>(Determination of Volatile Fatty Acids in sewage sludge 1979 HMSO. ISBN 0-11-75462-4) | Liquid samples                  |

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**Tests: ORGANIC CHEMISTRY OF FOOD**

| Ordinal number     | Test procedure/Method name  | Test procedure/Method identification   | Tested object   |
|--------------------|---|--|---|
| 3.1 <sup>1)</sup>  | Determination of fatty acids <sup>18)</sup> by gas chromatography method with FID detection and calculation sum of SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6 <sup>35)</sup> | <b>CZ_SOP_D06_04_202</b><br>(ČSN ISO 5508,<br>ČSN EN ISO 15304)  | Food, feed, dietary supplements   |
| 3.2 <sup>1)</sup>  | Determination of cholesterol by gas chromatography method with FID detection  | <b>CZ_SOP_D06_04_205</b><br>Prof. Ing. Jiří David, MD. et al,<br>Laboratory Manual of Food Analysis, J.-<br>Chromatogr.-A.;24 Jun 1994;672(1-2):<br>267-272, Determination of sterol<br>content in different food samples by<br>capillary gas chromatography | Fatty food, non-fatty food, dietary supplements   |
| 3.3 <sup>1)</sup>  | Determination of retinol and alpha-tocopherol by liquid chromatography method with FLD detection  | <b>CZ_SOP_D06_04_206</b><br>(ČSN EN 128 23-1,<br>ČSN EN 128 22)  | Fats, fatty food, non-fatty food, dietary supplements, feed, premixes   |
| 3.4 <sup>1)</sup>  | Determination of vitamin C (ascorbic acid) and ascorbyl-6-palmitate by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_207</b><br>(ČSN EN 14130)   | Beverages, candy, non-fatty food, dietary supplements, fruit, vegetables                                      |
| 3.5 <sup>1)</sup>  | Determination of vitamin D <sup>22)</sup> by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_208</b><br>(ČSN EN 12821)   | Fats, fatty food, non-fatty food, dietary supplements, feed, premixes   |
| 3.6 <sup>1)</sup>  | Determination of substitute sweeteners <sup>23)</sup> by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_209</b><br>(ČSN EN 12856)   | Beverages, milk products, jams, dietary supplements, fishes   |
| 3.7 <sup>1)</sup>  | Determination of caffeine, theobromine and theophylline by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_210</b><br>(ČSN EN 12856)   | Beverages, tea, coffee, cocoa, chocolate  |
| 3.8 <sup>1)</sup>  | Determination of preserving agents <sup>24)</sup> in food by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_211</b><br>(ČSN EN 12856)   | Beverages, jams, vegetable and fruit sauces and pastes, mustard, fatty and milk products, dietary supplements |
| 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                         | <b>CZ_SOP_D06_04_212</b><br>(ČSN EN 14123)   | Food with low water content, beverages, dietary supplements, feed   |
| 3.10 <sup>1)</sup> | Determination of the content of ochratoxin A by liquid chromatography method with FLD detection   | <b>CZ_SOP_D06_04_213</b><br>(ČSN EN 15829, ČSN EN 14133,<br>ČSN EN 14132)  | Food with low water content, beverages, dietary supplements, feed   |
| 3.11 <sup>1)</sup> | Determination of zearalenon by liquid chromatography method with FLD detection  | <b>CZ_SOP_D06_04_214</b><br>(ČSN EN 15850)   | Cereals, feed   |
| 3.12 <sup>1)</sup> | Determination of aflatoxin M1 by liquid chromatography method with FLD detection  | <b>CZ_SOP_D06_04_215</b><br>(ČSN EN ISO 14501)   | Milk, dried milk and products from them   |
| 3.13 <sup>1)</sup> | Determination of patulin by liquid chromatography method with PDA detection   | <b>CZ_SOP_D06_04_216</b><br>(ČSN EN 14177)   | Food with high water content, food supplement, beverages  |
| 3.14 <sup>1)</sup> | Determination of deoxynivalenol by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_217</b><br>(ČSN EN 15791, ČSN EN 15891)   | Food with low water content, beverages, dietary supplements, feed   |
| 3.15 <sup>1)</sup> | Determination of vitamins B <sub>1</sub> , B <sub>2</sub> and B <sub>6</sub> by liquid chromatography method with FLD detection   | <b>CZ_SOP_D06_04_218</b><br>(ČSN EN 14122, ČSN EN 14152,<br>ČSN EN 14663)  | Fats, fatty food, non-fatty food, feed, dietary supplements   |

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| Ordinal number     | Test procedure/Method name  | Test procedure/Method identification  | Tested object   |
|--------------------|---|---|---|
| 3.16 <sup>1)</sup> | Determination of folic acid by ELISA method – commercial set Ridascreen Folic Acid  | <b>CZ_SOP_D06_04_219</b><br>(R-Biopharm Manual)                                       | Food, feed, dietary supplements   |
| 3.17 <sup>1)</sup> | Determination of biotin by ELISA method – commercial set Ridascreen Biotin  | <b>CZ_SOP_D06_04_220</b><br>(R-Biopharm Manual)                                       | Milk, milk products, cereals and cereal products, non-alcoholic beverages, baby food, feed, dietary supplements |
| 3.18 <sup>1)</sup> | Determination of gliadine (gluten) by sandwich enzyme immunoassay ELISA Method – commercial set RIDASCREEN <sup>®</sup> Gliadin | <b>CZ_SOP_D06_04_221.A</b><br>(manual R-Biopharm)                                     | Fatty food, non-fatty food, dietary supplements   |
| 3.19 <sup>1)</sup> | Determination of gliadine (gluten) by competitive immunoassay ELISA Method – commercial set RIDASCREEN <sup>®</sup> Gliadin     | <b>CZ_SOP_D06_04_221.B</b><br>(manual R-Biopharm)                                     | Fatty food, non-fatty food, dietary supplements   |
| 3.20 <sup>1)</sup> | Determination of casein by ELISA Method – commercial set Ridascreen Fast Casein   | <b>CZ_SOP_D06_04_222</b><br>(R-Biopharm Manual)                                       | Food, dietary supplements   |
| 3.21 <sup>1)</sup> | Determination of sugars <sup>8)</sup> by liquid chromatography method with RI detection   | <b>CZ_SOP_D04_223</b><br>(ČSN EN 12630)   | Food, feed, dietary supplements   |
| 3.22 <sup>1)</sup> | Determination of vitamin B12 by microbiological microtitre method – commercial set VitaFast <sup>®</sup> B12                    | <b>CZ-SOP-D06_04_224</b><br>(R-Biopharm Manual)                                       | Food, feed, dietary supplements   |
| 3.23 <sup>1)</sup> | Determination of niacin by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_225</b><br>(ČSN EN 15652)  | Fatty food, non-fatty food, feed, dietary supplements   |
| 3.24 <sup>1)</sup> | Determination of soy protein by ELISA method – commercial set Soya assay Biokits  | <b>CZ_SOP_D06_04_226</b><br>(Biokits Neogen Manual)                                   | Meat products   |
| 3.25 <sup>1)</sup> | Determination of parabens contain by liquid chromatography method with PDA detection  | <b>CZ_SOP_D06_04_227</b><br>(HPLC for Food Analysis, Agilent Technologies 1996 -2001) | Cosmetics   |
| 3.26 <sup>1)</sup> | Determination of allergen peanut protein by ELISA method – commercial kit Bio-Check (Peanut-Check)                              | <b>CZ_SOP_D06_04_228</b><br>(Bio-Check Manual)  | Fatty food, non-fatty food, dietary supplements   |
| 3.27 <sup>1)</sup> | Determination of fat-soluble vitamins (D2 and D3) by two-dimensional liquid chromatography method with PDA detection            | <b>CZ_SOP_D06_04_229</b><br>(AN-1069 Thermo – Application list)                       | Fats, fatty food, non-fatty food, dietary supplements, feed, premixes   |

**Tests: MICROBIOLOGY OF WATER**

| Ordinal number    | Test procedure/Method name                                   | Test procedure/Method identification                     | Tested object   |
|-------------------|--|--|---|
| 4.1 <sup>1)</sup> | Enumeration of mesophilic bacteria by cultivation            | <b>ČSN 75 7841</b>                                       | Surface, ground, waste, pool water                                  |
| 4.2 <sup>1)</sup> | Enumeration of psychrophilic bacteria by cultivation         | <b>ČSN 75 7842</b>                                       | Surface, ground, waste, pool water                                  |
| 4.3 <sup>1)</sup> | Enumeration of intestinal enterococci by membrane filtration | <b>ČSN EN ISO 7899 - 2</b><br><b>STN EN ISO 7899 - 2</b> | Drinking, bottled, pool, raw, treated, ground, surface, waste water |

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| Ordinal number     | Test procedure/Method name   | Test procedure/Method identification  | Tested object   |
|--------------------|--|---|---|
| 4.4 <sup>1)</sup>  | Enumeration of culturable microorganisms<br>a) at 22 °C b) at 36 °C by cultivation                                       | ČSN EN ISO 6222<br>STN EN ISO 6222  | Drinking, bottled, natural mineral, pool, raw, treated, ground water  |
| 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, waste water                          |
| 4.6 <sup>1)</sup>  | Enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration                                      | ČSN EN ISO 9308 – 1: 2015<br>STN EN ISO 9308 – 1: 2015  | Drinking, pool, bottled, raw, treated, ground water                   |
| 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, waste water        |
| 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   | Pool, surface, waste, drinking, ground water                          |
| 4.9 <sup>1)</sup>  | Enumeration of <i>Candida</i> yeasts by membrane filtration  | CZ_SOP_D06_04_258<br>(Hausler, J.: Microbiological Culture Methods of Quality Inspection, Volume III, 1995) | Pool, surface, waste water  |
| 4.10 <sup>1)</sup> | Enumeration of <i>Clostridium perfringens</i> by membrane filtration   | CZ_SOP_D06_04_259<br>(GR 252/2004 Coll., Annex 6, GR No. 354/2006 Coll., Annex.1)                           | Drinking, bottled, pool, natural mineral, raw, produced, ground water |
| 4.11 <sup>1)</sup> | Detection of <i>Salmonella</i> by membrane filtration  | ČSN ISO 19250   | Drinking, surface, ground, pool, waste water                          |
| 4.12 <sup>1)</sup> | Determination of bioseston by microscopy   | ČSN 75 7712, STN 757711   | Drinking, bottled, raw, treated, ground water                         |
| 4.13 <sup>1)</sup> | Determination of abioseston by microscopy  | ČSN 75 7713, STN 757712   | Drinking, bottled, raw, treated, ground water                         |
| 4.14 <sup>1)</sup> | Detection and enumeration of <i>Legionella</i> by cultivation and membrane filtration                                    | CZ_SOP_D06_04_263.A<br>(ČSN ISO 11731, ČSN ISO 11731-2)   | Water, treated water  |
| 4.15 <sup>1)</sup> | Detection and enumeration of <i>Legionella</i> by cultivation  | CZ_SOP_D06_04_263.B<br>(ČSN ISO 11731)  | Sediments, growths  |
| 4.16 <sup>1)</sup> | Detection and enumeration of <i>Legionella</i> by cultivation  | CZ_SOP_D06_04_263.C<br>(ČSN ISO 11731)  | Swabs   |
| 4.17 <sup>1)</sup> | Enumeration of Coliform bacteria by membrane filtration  | ČSN 75 7837   | Non-disinfected water   |
| 4.18 <sup>1)</sup> | Enumeration of spore sulphite reducing anaerobes ( <i>Clostridium</i> ) by membrane filtration                           | ČSN EN 26461-2  | Water   |
| 4.19 <sup>1)</sup> | Microbiological testing of water for haemodialysis. Enumeration of viable microorganisms                                 | CZ_SOP_D06_04_266<br>(ISO 13959, ISO 23500)   | Dialysis water  |
| 4.20 <sup>1)</sup> | Microbiological testing of dialysis fluid for haemodialysis. Enumeration of viable microorganisms                        | CZ_SOP_D06_04_267<br>(ISO 11663, ISO 23500)   | Dialysis fluid  |
| 4.21 <sup>1)</sup> | Determination of the concentration of bacterial endotoxins by the LAL test: the turbidimetric kinetic method             | CZ_SOP_D06_04_268<br>(Ph.Eur. chapter 2.6.14)   | Dialysis water, Dialysis fluid  |

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**Tests: MICROBIOLOGY**

| Ordinal number     | Test procedure/Method name   | Test procedure/Method identification  | Tested object                                       |
|--------------------|--|---|---|
| 5.1 <sup>1)</sup>  | Enumeration of microorganisms by cultivation   | ČSN EN ISO 4833   | Food, feed  |
| 5.2 <sup>1)</sup>  | Enumeration of coliform bacteria by cultivation  | ČSN ISO 4832  | Food, feed  |
| 5.3 <sup>1)</sup>  | Enumeration of enterococci by cultivation  | CZ_SOP_D06_04_302<br>(ČSN 56 0100)  | Food, feed  |
| 5.4 <sup>1)</sup>  | Enumeration of <i>Bacillus cereus</i> by cultivation   | ČSN EN ISO 7932   | Food, feed  |
| 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  |
| 5.6 <sup>1)</sup>  | Enumeration of <i>Clostridium perfringens</i> by cultivation   | ČSN EN ISO 7937   | Food, feed  |
| 5.7 <sup>1)</sup>  | Detection of <i>Salmonella</i> by cultivation  | ČSN EN ISO 6579   | Food, feed  |
| 5.8 <sup>1)</sup>  | Detection of <i>Salmonella</i> by cultivation  | CZ_SOP_D06_04_307<br>except chap. 9.1.2<br>(ČSN EN ISO 6579, AHEM No. 1/2008) | Sludge, bio waste, compost, substrates, soils       |
| 5.9 <sup>1)</sup>  | Detection of <i>Salmonella</i> by cultivation  | CZ_SOP_D06_04_307<br>except chap. 9.1.1<br>(ČSN EN ISO 6579, AHEM No. 1/2008) | Biological matrices                                 |
| 5.10 <sup>1)</sup> | Determination of inhibiting substances by Delvotest method   | CZ_SOP_D06_04_308<br>(O.K.Servis BioPro Manual)                               | Milk  |
| 5.11 <sup>1)</sup> | Detection of <i>Salmonella</i> by ELISA method - commercial set Solus Salmonella                                 | CZ-SOP-D06_04_309<br>(Solus Manual)   | Food, feed  |
| 5.12 <sup>1)</sup> | Enumeration of yeasts and moulds by cultivation  | ČSN ISO 21527-1,2   | Food, feed  |
| 5.13 <sup>1)</sup> | Detection of <i>Enterobacteriaceae</i> by cultivation  | ČSN ISO 21528-1   | Food, feed  |
| 5.14 <sup>1)</sup> | Enumeration of spore-forming microorganisms by cultivation   | CZ_SOP_D06_04_312<br>(ČSN 56 0100 Article 87)                                 | Food, feed  |
| 5.15 <sup>1)</sup> | Detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio species</i> by cultivation                             | ČSN P ISO/TS 21872-1, 2   | Food, feed  |
| 5.16 <sup>1)</sup> | Enumeration of mesophilic lactic acid bacteria by cultivation  | ČSN ISO 15214   | Food, feed  |
| 5.17 <sup>1)</sup> | Detection of <i>Shigella spp.</i> by cultivation   | ČSN EN ISO 21567  | Food, feed  |
| 5.18 <sup>1)</sup> | Detection of <i>Campylobacter spp.</i> by cultivation  | ČSN EN ISO 10272-1  | Food, feed  |
| 5.19 <sup>1)</sup> | Detection of presumptive pathogenic <i>Yersinia enterocolitica</i> by cultivation                                | ČSN EN ISO 10273  | Food, feed  |
| 5.20 <sup>1)</sup> | Enumeration of Enterobacteriaceae by cultivation   | ČSN ISO 21528-2   | Food, feed  |
| 5.21 <sup>1)</sup> | Enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> by cultivation                                | ČSN ISO 16649-2   | Food, feed  |
| 5.22 <sup>1)</sup> | Detection and enumeration of <i>Listeria monocytogenes</i> by cultivation  | ČSN EN ISO 11290-1,<br>ČSN EN ISO 11290-2                                     | Food, feed  |
| 5.23 <sup>1)</sup> | Enumeration of potentially toxigenic moulds on special media by cultivation                                      | CZ_SOP_D06_04_321<br>(AHEM No.1/2003)   | Food, feed  |
| 5.24 <sup>1)</sup> | Enumeration of microorganisms in air by aeroscopy and sedimentation method                                       | CZ_SOP_D06_04_322<br>(ČSN 56 0100 article 149, 150<br>AHEM No.1/2002)         | Internal air environment                            |
| 5.25 <sup>1)</sup> | Determination of microbial contamination of areas, surface of equipment and packages using swab method           | CZ_SOP_D06_04_323<br>(ČSN 56 0100 čl.145)                                     | Areas, surface, packaging material, surface of food |



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| Ordinal number     | Test procedure/Method name   | Test procedure/Method identification                                     | Tested object   |
|--------------------|--|--|---|
| 5.26 <sup>1)</sup> | Enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by cultivation                                     | <b>CZ_SOP_D06_04_324</b><br>(AHEM No. 1/2008,<br>ČSN ISO 16649-2)        | Sludge, bio waste,<br>compost, substrates, soils,<br>sand |
| 5.27 <sup>1)</sup> | Enumeration of enterococci by cultivation  | <b>CZ_SOP_D06_04_325</b><br>(AHEM No. 1/2008,<br>ČSN EN ISO 7899-2)      | Sludge, bio waste,<br>compost, substrates, soils,<br>sand |
| 5.28 <sup>1)</sup> | Detection of <i>Listeria</i> by ELISA method - commercial set Solus Listeria   | <b>CZ-SOP-D06_04_326</b><br>(manual Solus)                               | Food, feed  |
| 5.29 <sup>1)</sup> | Detection and enumeration of <i>Listeria monocytogenes</i> by quick cultivation method Listeria Precise                        | <b>CZ-SOP-D06_04_327</b><br>(OXOID Manual)                               | Food, feed  |
| 5.30 <sup>1)</sup> | Detection of <i>Salmonella</i> by quick cultivation method Salmonella Precis   | <b>CZ-SOP-D06_04_328</b><br>(OXOID Manual)                               | Food, feed  |
| 5.31 <sup>1)</sup> | Detection of <i>Cronobacter (Enterobacter) sakazakii</i> by cultivation  | <b>ČSN P ISO/TS 22964</b>  | Milk and milk products                                    |
| 5.32 <sup>1)</sup> | Detection and enumeration of aerobic mesophilic bacteria by cultivation  | <b>ČSN EN ISO 21149</b>  | Cosmetics   |
| 5.33 <sup>1)</sup> | Detection of <i>Pseudomonas aeruginosa</i> by cultivation  | <b>ČSN EN ISO 22717</b><br><b>ČSN ISO 18415</b>                          | Cosmetics   |
| 5.34 <sup>1)</sup> | Detection of <i>Staphylococcus aureus</i> by cultivation   | <b>ČSN EN ISO 22718</b><br><b>ČSN ISO 18415</b>                          | Cosmetics   |
| 5.35 <sup>1)</sup> | Detection of <i>Candida albicans</i> by cultivation  | <b>ČSN EN ISO 18416</b><br><b>ČSN ISO 18415</b>                          | Cosmetics   |
| 5.36 <sup>1)</sup> | Detection of <i>Escherichia coli</i> by cultivation  | <b>ČSN EN ISO 21150</b><br><b>ČSN ISO 18415</b>                          | Cosmetics   |
| 5.37 <sup>1)</sup> | Enumeration of yeast and mould by cultivation  | <b>ČSN EN ISO 16212</b>  | Cosmetics   |
| 5.38 <sup>1)</sup> | Evaluation of antimicrobial protection of cosmetic product, test of conservation effectiveness                                 | <b>CZ_SOP_D06_04_336</b><br>(ČSN EN ISO 11930,<br>Ph.Eur. chapter 5.1.3) | Cosmetics   |
| 5.39 <sup>1)</sup> | Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> - Technique of most probable number | <b>ČSN ISO 7251, expected Art. 9.2</b>                                   | Food, feed  |

**Tests: ECOTOXIKOLOGY**

| Ordinal number    | Test procedure/method name   | Test procedure/method identification   | Tested object   |
|-------------------|--|--|---|
| 6.1 <sup>2)</sup> | Determination of the acute lethal toxicity of substance to a freshwater fish                         | <b>CZ_SOP_D06_07_350</b><br>(ČSN EN ISO 7346-1,<br>ČSN EN ISO 7346-2, STN 83 8303) | Surface, underground and<br>waste water, extracts of<br>waste, solutions and<br>extracts of chemical<br>substances and agents |
| 6.2 <sup>2)</sup> | Determination of the inhibition of the mobility of <i>Daphnia magna Straus</i> - Acute toxicity test | <b>CZ_SOP_D06_07_351</b><br>(ČSN EN ISO 6341, STN 83 8303)                         | Surface, underground and<br>waste water, extracts of<br>waste, solutions and<br>extracts of chemical<br>substances and agents |

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| Ordinal number     | Test procedure/method name   | Test procedure/method identification   | Tested object  |
|--------------------|--|--|--|
| 6.3 <sup>2)</sup>  | Freshwater algal growth inhibition test  | <b>CZ_SOP_D06_07_352</b><br>(ČSN EN ISO 8692, STN 83 8303)   | Surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents              |
| 6.4 <sup>2)</sup>  | Toxicity test on seeds of white mustard ( <i>Sinapis alba</i> )  | <b>CZ_SOP_D06_07_353</b><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> )") | Surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents              |
| 6.5 <sup>2)</sup>  | Determination of the inhibitory effect of water samples on the light emission of <i>Vibrio fischeri</i>  | <b>CZ_SOP_D06_07_354</b><br>(ČSN EN ISO 11348-2)   | Surface, underground and waste water, extracts, percolation water, saline and brackish water                                   |
| 6.6 <sup>2)</sup>  | <i>Folsomia candida</i> reproduction test – determination of the inhibition.   | <b>CZ_SOP_D06_07_355</b><br>(ČSN ISO 11267)  | Waste, soils, sediments  |
| 6.7 <sup>2)</sup>  | <i>Enchytraeus crypticus</i> reproduction test – determination of the inhibition   | <b>CZ_SOP_D06_07_356</b><br>(ČSN ISO 16387)  | Waste, soils, sediments  |
| 6.8 <sup>2)</sup>  | <i>Lactuca sativa</i> – determination of inhibition of root growth   | <b>CZ_SOP_D06_07_357</b><br>(ČSN ISO 11269-1)  | Waste, soils, sediments  |
| 6.9 <sup>2)</sup>  | Determination of nitrification activity and its inhibition   | <b>CZ_SOP_D06_07_358</b><br>(ČSN ISO 15685)  | Waste, soils, sediments  |
| 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 | <b>CZ_SOP_D06_07_359</b><br>(F. Zucconi et al.: Biological evaluation of compost maturity. BioCycle, 22(2), 1981, s. 27–29.)   | Surface, underground and waste water, extracts of waste and composts, solutions and extracts of chemical substances and agents |
| 6.11 <sup>2)</sup> | Determination of the inhibition of the growth of Lesser Duckweed ( <i>Lemna minor</i> ) - Acute toxicity test  | <b>CZ_SOP_D06_07_1350</b><br>(ČSN EN ISO 20079)  | Surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents              |

**Tests: RADIOLOGY**

| Ordinal number    | Test procedure/method name  | Test procedure/method identification  | Tested object   |
|-------------------|---|---|-----------------|
| 7.1 <sup>2)</sup> | Determination of gross alpha activity by measuring of evaporated residue in a mixture with ZnS(Ag) scintillator   | <b>ČSN 75 7611 chapter 4</b>  | Water, extracts |
| 7.2 <sup>2)</sup> | Determination of gross alpha activity by measuring of incinerated evaporated residue by means of proportional detector  | <b>ČSN 75 7611 chapter 5</b>  | Water, extracts |
| 7.3 <sup>2)</sup> | Determination of gross beta activity by measuring of evaporated residue by means of proportional detector and determination of gross beta activity corrected for potassium 40 by calculation from measured values | <b>CZ_SOP_D06_07_361</b><br>(ČSN 75 7612; Recommendation of SÚJB „Measurement and assessment of the content of natural radionuclides in drinking water from public sources Rev. 1, SÚJB 2012) | Water, extracts |

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| Ordinal number     | Test procedure/method name  | Test procedure/method identification  | Tested object  |
|--------------------|---|---|--|
| 7.4 <sup>2)</sup>  | Determination of radium 226 after concentration by scintillation emanometry   | ČSN 75 7622   | Water, extracts  |
| 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 chapter 5)  | Water, extracts  |
| 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 chapter 6)  | Water, extracts  |
| 7.7 <sup>2)</sup>  | Determination of radon 222 by liquid scintillation counting method (LSC)  | CZ_SOP_D06_07_363.C<br>(ČSN 75 7625)  | Drinking water, clear water without sediment   |
| 7.8 <sup>2)</sup>  | Determination of uranium by spectrophotometry after its separation on silica gel and determination of uranium 238 activity concentration by calculation from measured values  | ČSN 75 7614   | Water, extracts  |
| 7.9 <sup>2)</sup>  | Determination of tritium volume activity by liquid scintillation counting method (LSC)  | ČSN ISO 9698  | Water, extracts  |
| 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  |
| 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  |
| 7.12 <sup>2)</sup> | Non-destructive determination of radionuclides <sup>25)</sup> by high resolution gamma-spectrometry and determination of the mass activity index I by calculation using the mass activities of <sup>226</sup> Ra, <sup>228</sup> Th and <sup>40</sup> K | CZ_SOP_D06_07_367<br>(ČSN ISO 10 703, SÚJB Recommendation "Measurement and evaluation of natural radionuclides in building materials", SÚJB 2009 )                        | Solid samples with granularity up to 4 mm, food, liquid samples  |
| 7.13 <sup>2)</sup> | Determination of gross alpha mass activity by direct measurement of the sample by means of alpha radiation analyzer   | CZ_SOP_D06_07_368<br>(ČSN 75 7611 and ISO 9696)   | All solid samples which can be pulverized to 100µm granularity, liquid samples with boiling point above 100 °C |
| 7.14 <sup>2)</sup> | Determination of gross beta mass activity by direct measurement of the sample by means of beta radiation analyzer   | CZ_SOP_D06_07_369<br>(ČSN 75 7612 and ISO 9697)   | All solid samples which can be pulverized to 100µm granularity, liquid samples with boiling point above 100 °C |
| 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>(Health Phys., 46, 1984, No. 5, p. 1131)   | Water, extracts (with low content of suspended solids or filtrated through 0.45µm filter)                      |
| 7.16 <sup>2)</sup> | Determination of gross alpha activity by co-precipitation method by measurement of filtrated precipitate by means of proportional detector  | ČSN 75 7610   | Water, extracts  |
| 7.17 <sup>2)</sup> | Calculation of Indicative Dose (ID) <sup>66)</sup> from the measured values of volume activities of individual radionuclides  | CZ_SOP_D06_07_372<br>(Recommendation of SÚJB „Measurement and assessment of the content of natural radionuclides in drinking water from public sources Rev. 1, SÚJB 2012) | Water  |
| 7.18 <sup>2)</sup> | Determination of strontium 90 by proportional detector after separation   | CZ_SOP_D06_07_373<br>(ASTM D5811-00)  | Water  |
| 7.19 <sup>2)</sup> | Determination of strontium 90 by proportional detector after separation   | CZ_SOP_D06_07_373<br>(ASTM D5811-00, ASTM C1507-12)   | Soils, sludge, sediments   |

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| Ordinal number     | Test procedure/method name   | Test procedure/method identification                                 | Tested object   |
|--------------------|--|--|---|
| 7.20 <sup>2)</sup> | Determination of strontium 90 by proportional detector after separation    | <b>CZ_SOP_D06_07_373</b><br>(ASTM D5811-00, ASTM C1507-12)           | Biological material, food, feed                       |
| 7.21 <sup>2)</sup> | Determination of carbon 14 by liquid scintillation method after separation | <b>CZ_SOP_D06_07_374</b><br>(ISO 13162:2011,<br>US EPA 520/5-84-006) | Water, soils, sludge, sediments, bio indicators, food |

**Tests: TRIBOLOGY**

| Ordinal number    | Test procedure/method name  | Test procedure/method identification   | Tested object                             |
|-------------------|---|--|---|
| 8.1 <sup>1)</sup> | Determination of kinematic viscosity by viscometer and viscosity index by calculation   | <b>CZ_SOP_D06_05_400</b><br>(ČSN EN ISO 3104, ČSN ISO 2909)                                      | Liquid fuels, lubricating oils            |
| 8.2 <sup>1)</sup> | Determination of flash point - Pensky-Martens closed cup method by flash point analyser | <b>CZ_SOP_D06_05_401</b><br>(ČSN EN ISO 2719)  | Liquid petroleum products                 |
| 8.3 <sup>1)</sup> | Determination of liquid cleanliness code by particle counter                            | <b>CZ_SOP_D06_05_402</b><br>(User Manual for Lase Net Fines-C use and maintenance, ČSN ISO 4406) | Liquid fuels, lubricating oils            |
| 8.4 <sup>1)</sup> | Determination of base number by potentiometric titration                                | <b>CZ_SOP_D06_05_403</b><br>(ČSN ISO 3771)   | Lubricating oils, additives to lubricants |
| 8.5 <sup>1)</sup> | Determination of neutralization number by potentiometric titration                      | <b>CZ_SOP_D06_05_404</b><br>(ČSN ISO 6619)   | Lubricating oils, additives to lubricants |
| 8.6 <sup>1)</sup> | Determination of water content by Coulometric method                                    | <b>CZ_SOP_D06_05_405</b><br>(ASTM D 6304,<br>ČSN EN ISO 12937)                                   | Liquid fuels, lubricating oils            |
| 8.7 <sup>1)</sup> | Determination of flash point-Cleveland opened-cup method by flash point analyser        | <b>CZ_SOP_D06_05_406</b><br>(ČSN EN ISO 2592)  | Liquid fuels, lubricating oils            |

**Tests: GENERAL FOOD CHEMISTRY**

| Ordinal number    | Test procedure/method name  | Test procedure/method identification  | Tested object                   |
|-------------------|---|---|---------------------------------|
| 9.1               | Reserved  |   |                                 |
| 9.2 <sup>1)</sup> | Gravimetric determination of fat  | <b>CZ_SOP_D06_04_451</b><br>(ČSN ISO 1443, ČSN ISO 1444)<br>ČSN 46 7092-7)  | Food, feed                      |
| 9.3 <sup>1)</sup> | Gravimetric determination of dry matter by and determination of moisture by calculation from measured value | <b>CZ_SOP_D06_04_452</b><br>(Journal of AOAC International vol 88, No1,2005; Journal of AOAC International vol 86, No6, 2003) | Food, feed, dietary supplements |
| 9.4 <sup>1)</sup> | Determination of nitrate and nitrite by capillary isotachopheresis  | <b>CZ_SOP_D06_04_453</b><br>(ITP: Application sheet No. 33 VILLA LABECO s.r.o.)   | Food, feed                      |
| 9.5 <sup>1)</sup> | Determination of phosphates by capillary isotachopheresis   | <b>CZ_SOP_D06_04_454</b><br>(ITP: Application sheet No. 35 VILLA LABECO s.r.o.)   | Food, feed                      |

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| Ordinal number     | Test procedure/method name   | Test procedure/method identification   | Tested object                          |
|--------------------|--|--|--|
| 9.6 <sup>1)</sup>  | Gravimetric determination of water extract content   | ČSN 58 0113 Article 38   | Coffee                                 |
| 9.7 <sup>1)</sup>  | Determination of acid value and acidity by titration   | CZ_SOP_D06_456<br>(ČSN ISO 660)  | Animal and vegetable fats and oils     |
| 9.8 <sup>1)</sup>  | Determination of phosphate by indirect method by spectrophotometry   | CZ_SOP_D06_04_457<br>(Veterinary Laboratory Methodology, Food chemistry, Bratislava1990)   | Meat and milk products                 |
| 9.9 <sup>1)</sup>  | Gravimetric determination of ash   | CZ_SOP_D06_04_458<br>(ČSN 56 0116-4)   | Food, feed                             |
| 9.10 <sup>1)</sup> | Determination of crude fibre by oxidation hydrolysis method  | CZ_SOP_D06_04_459<br>(ČSN ISO 5498)  | Feed                                   |
| 9.11 <sup>1)</sup> | Determination of pH in biological material by potentiometry  | CZ_SOP_D06_04_460<br>(ČSN ISO 2917:2012, ČSN ISO 1842)                                     | Food, feed                             |
| 9.12 <sup>1)</sup> | Determination of sand in biological material by gravimetry   | CZ_SOP_D06_04_461<br>(ČSN 56 0246-12)  | Food, feed                             |
| 9.13 <sup>1)</sup> | Determination of relative density of liquids by pycnometry   | CZ_SOP_D06_04_462<br>(ČSN EN 1131)   | Low viscosity liquids                  |
| 9.14 <sup>1)</sup> | Titrimetric determination of acidity   | CZ_SOP_D06_04_463<br>(ČSN ISO 750)   | Fruit juices, water-soluble food       |
| 9.15 <sup>1)</sup> | Determination of moisture content – distillation method  | CZ_SOP_D06_04_464<br>(ČSN ISO 939)   | Spices, mixed condiments               |
| 9.16 <sup>1)</sup> | Determination of dietary fibre enzymatically by commercial set Megazyme  | CZ_SOP_D06_04_465<br>(AOAC Method 985.29)  | Food, dietary supplements              |
| 9.17 <sup>1)</sup> | Determination of starch content by polarimetry   | CZ_SOP_D06_04_466<br>(ČSN 46 70 92-21)   | Cereals, baking products, cereal feeds |
| 9.18 <sup>1)</sup> | Determination of chloride by coulometric titration   | CZ_SOP_D06_04_467<br>(O.K.SERVIS company Chloride Analyser manual)                         | Food, feed, dietary supplements        |
| 9.19 <sup>1)</sup> | Determination of reducing and non-reducing sugars by titration   | CZ_SOP_D06_04_468<br>(ČSN 56 01 46)  | Food, feed, dietary supplements        |
| 9.20 <sup>1)</sup> | Determination of alkalinity of water-soluble ash by titration  | ČSN ISO 1578   | Tea                                    |
| 9.21 <sup>1)</sup> | Gravimetric determination of total ash   | ČSN ISO 1575   | Tea                                    |
| 9.22 <sup>1)</sup> | Gravimetric determination of water-soluble and water-insoluble ash   | ČSN ISO 1576   | Tea                                    |
| 9.23 <sup>1)</sup> | Gravimetric determination of acid-insoluble ash  | ČSN ISO 1577   | Tea                                    |
| 9.24 <sup>1)</sup> | Gravimetric determination of water extract   | ČSN ISO 9768   | Tea                                    |
| 9.25 <sup>1)</sup> | Gravimetric determination of loos in mass at 103°C   | ČSN ISO 1573   | Tea                                    |
| 9.26 <sup>1)</sup> | Determination of total nitrogen by Dumas method by analyser and protein calculation from measured values                           | CZ_SOP_D06_04_475<br>(ČSN EN ISO 14891,<br>ČSN EN ISO16634-1,<br>ČSN P CEN ISO/TS 16634-2) | Food, feed, dietary supplements        |
| 9.27 <sup>1)</sup> | Volumetric determination of volatile oils (essential oils) by distillation with steam  | ČSN EN ISO 6571  | Spices, spicing agents, herbs          |
| 9.28 <sup>1)</sup> | Determination of the weight of consumer packaging of food and animal feeding stuff products by gravimetry                          | CZ_SOP_D06_04_477<br>(ČSN 560305, ČSN 570146-3,<br>ČSN 580170-3)                           | Food, feed, dietary supplements        |
| 9.29 <sup>1)</sup> | Determination of the meat content in meat products and products containing meat by calculation from measured values <sup>63)</sup> | CZ_SOP_D06_04_478<br>(Commission Directive no.<br>2001/101/EC, Commission Regulation       | Meat products                          |

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| Ordinal number      | Test procedure/method name   | Test procedure/method identification  | Tested object  |
|---------------------|--|---|--|
|                     |  | no. 2004/2002/EC, Commission Regulation no. 2429/86/EEC, Decree 450/2004 Coll.)   |  |
| 9.30 <sup>1)</sup>  | Determination of carbohydrates and energy values by calculation from measured values <sup>64)</sup>                      | <b>CZ_SOP_D06_04_479</b><br>(Regulation (EU) 1169/2011, Commission Directive 2008/100/EC, Decree 450/2004 Coll.)                              | Food, raw materials for production of food, dietary supplements          |
| 9.31 <sup>1)</sup>  | Determination of non-protein contents substances by calculation <sup>65)</sup>   | <b>ČSN 46 7092-24</b>   | Feed   |
| 9.32 <sup>1)</sup>  | Determination of 4-hydroxyproline by spectrophotometry and determination of collagen by calculation from measured values | <b>CZ_SOP_D06_04_481</b><br>(ISO 3496)  | Meat products  |
| 9.33 <sup>1)</sup>  | Determination of fat content by NMR method   | <b>CZ_SOP_D06_04_482</b><br>(Journal of AOAC International vol 88, No1,2005; Journal of AOAC International vol 86, No6, 2003)                 | Selected food, raw materials for production of food, dietary supplements |
| 9.34 <sup>1)</sup>  | Volumetric determination of peroxide value   | <b>ČSN EN ISO 3960</b>  | Fat, vegetable oils  |
| 9.35 <sup>1)</sup>  | Determination of water activity by capacitive sensors method   | <b>ČSN ISO 21807</b>  | Food, raw materials for production of food, dietary supplements          |
| 9.36 <sup>1)</sup>  | Determination of net muscle protein by calculation from content of collagen and protein                                  | <b>CZ_SOP_D06_04_485</b><br>(Decree 69/2016 Coll.)  | Meat, meat products  |
| 9.37 <sup>1)</sup>  | Identification of synthetic dyes <sup>57)</sup> by thin-layer chromatography method                                      | <b>CZ_SOP_D06_04_486</b><br>(Davidek J., Laboratory manual of Food Analysis, 1981)  | Food   |
| 9.38 <sup>1)</sup>  | Determination of piperine content by spectrophotometry   | <b>ČSN ISO 5564 (580192)</b>  | Black pepper and white pepper, whole or ground                           |
| 9.39 <sup>1)</sup>  | Determination of starch in meat products by titration  | <b>CZ_SOP_D06_04_488</b><br>(BS 4401 Part 12:1979 Determination of Starch Content of Meat Products)   | Meat products  |
| 9.40 <sup>1)</sup>  | Determination of total sulphur dioxide after distillation by titration   | <b>CZ_SOP_D06_04_489</b><br>(Prof.Ing.J.Davidek, MD. et al.: Laboratory Manual analysis of food, SNTL 1981)                                   | Food and raw materials for food production, dietary supplements          |
| 9.41 <sup>1)</sup>  | Determination of total sulphur dioxide after distillation by ITP   | <b>CZ_SOP_D06_04_489</b><br>(Prof.Ing.J.Davidek, MD. et al.: Laboratory Manual analysis of food, SNTL 1981, Application Note 33 Villa Labeco) | Food and raw materials for food production, dietary supplements          |
| 9.42 <sup>10)</sup> | Sensory testing – description test   | <b>CZ_SOP_D06_04_490</b><br>(ČSN ISO 6658, ČSN ISO 8589, ČSN ISO 13299, ČSN ISO 13300)  | Food, cosmetics, packaging materials for food, article of common use     |
| 9.43 <sup>10)</sup> | Sensory testing – comparison to standard   | <b>CZ_SOP_D06_04_491</b><br>(ČSN ISO 6658, ČSN ISO 8589, ČSN ISO 13299, ČSN ISO 13300)  | Food, cosmetics, packaging materials for food, article of common use     |
| 9.44 <sup>10)</sup> | Assessment of characteristics of food  | <b>CZ_SOP_D06_04_492</b><br>(ČSN ISO 8589, ČSN ISO 13299, ČSN ISO 13300)  | Food   |

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**Used abbreviations**

|                       |   |
|-----------------------|---|
| AHEM                  | Acta hygienica, epidemiologica et microbiologica  |
| AITM                  | Airbus Company methods  |
| Animal materials      | Insects   |
| BDE                   | Brominated Diphenyl Ethers  |
| BFR                   | Brominated flammable retarders  |
| Bio indicators        | Freshwater and marine plankton  |
| Biological matrices   | Blood, tissues, mother's milk, urine, sweat   |
| CFA                   | Flow analyser   |
| Contaminated surfaces | Food spaces, walls after fire, technological plants walls   |
| CPh                   | Czech Pharmacopoeia   |
| DIN                   | Deutsches Institut für Normung  |
| EC                    | electrochemical detection   |
| ECD                   | Electron capture detector   |
| Emission              | Filters, liquid and solid sorption matrices, condensate, fly ash  |
| Extracts              | Aqueous extracts of soils, sediments and waste according to valid legislation   |
| Extracts              | Extracts are prepared according to standards ČSN EN 12457-2, ČSN EN 12457-3, ČSN EN 12457-4, ČSN CEN/TS 14405, US EPA 1311, US EPA 1312. Extract preparation method identification is always listed on certificate of analysis. |
| Feed                  | Products for animal nutrition, PET Food   |
| FID                   | Flame ionization detector   |
| FLD                   | Fluorescent detector  |
| Gases                 | Biogas stations gases, landfill gases   |
| GR                    | Government Regulation   |
| HRGC/HRMS             | High-resolution gas chromatography with high-resolution mass detector   |
| Immission             | Filters, solid sorption matrices  |
| IP                    | International Petroleum test methods  |
| IR                    | Infra-red detector  |
| ISE                   | Ion selective electrode   |
| ISO                   | International Organization for Standardization  |
| ITP                   | Isotachophoresis  |
| Liquid samples        | Industrial liquids, technological liquids and technological baths   |
| LSC                   | Liquid Scintillation Counting method for determination of radionuclides emitting alpha or beta radiation  |
| MS                    | Mass detector   |
| MUFA                  | Mono-unsaturated fatty acids  |
| NEN                   | Nederlands Normalisatie-Institut  |
| NIOSH                 | National Institute for Occupation Safety and Health   |
| NIOSH <sup>1)</sup>   | Methods for CZ_SOP_D06_03_153 - NIOSH 1400, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1022, NIOSH 1602, NIOSH 1609  |
| PDA                   | Photo-Diode-Array detector  |
| PhEur                 | European Pharmacopoeia  |
| PUFA                  | Poly-unsaturated fatty acids  |
| RI                    | Refractometric detector   |
| SAFA                  | Saturated fatty acids   |
| Selected food         | Food, raw materials for food production, dietary supplements and animal feeding stuff excluding samples of these matrices with moisture higher than 95%, unprocessed grains and condensed milk                                  |

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|                     |  |
|---------------------|--|
| SFS                 | The Finish Standard Association  |
| SM                  | Standard Methods – USA standard methods for drinking and waste water analyses prepared and issued by American Public Health Association, American Water Works Association and Water Environmental Federation |
| Solid samples       | Waste (solid, liquid, biowaste), sediments, sludge, technological sludge products, soils, rocks, filters from emission and immission samples   |
| SOP                 | Standard operating procedure   |
| SPIMFAB             | SPI MILJOSANERINGSFOND AB – method of the Association of Swedish Oil Companies   |
| SPMD                | Semi-Permeable Membrane Device   |
| SPMD extracts       | SPMD from surface water, groundwater and immissions  |
| SÚJB                | State Nuclear Safety Institute   |
| Sum of Ca+Mg        | Water hardness   |
| TCD                 | Thermal conductivity detector  |
| TEQ                 | Toxic equivalent   |
| TFA                 | Transfatty acids   |
| TNV                 | Branch Technical Standard of Water Management  |
| Treated water       | Dialysis water, aqua purificata, process, industrial, boiler and cooling water, irrigation water, water delivered by piping or taken from various storage tanks  |
| US EPA              | U.S. Environmental Protection Agency   |
| USP                 | U.S. Pharmacopoeia   |
| UV                  | Ultraviolet detector   |
| Vegetable materials | Green plants (roots, flowers, green parts), pollen   |
| Water               | Drinking, packed, natural, mineral, pool, hot, bathing, raw, ground, surface, waste, sea water   |
| Working environment | Filters, solid sorbents, tubes   |

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Tests identified by ordinal number:

- with index <sup>\*</sup> are carried out outside the laboratory premises
- with index <sup>1)</sup> are carried out on the site in Prague, Na Harfě 336/9
- with index <sup>2)</sup> are carried out on the site in Česká Lípa
- with index <sup>3)</sup> are carried out on the site in Pardubice
- with index <sup>4)</sup> are carried out on the contact and sampling place in Brno
- with index <sup>5)</sup> are carried out on the contact and sampling place in Ostrava
- with index <sup>6)</sup> are carried out on the contact and sampling place in Plzeň
- with index <sup>7)</sup> are carried out on the contact and sampling place in Lovosice
- with index <sup>8)</sup> are carried out on the contact and sampling place in Rožnov pod Radhoštěm
- with index <sup>9)</sup> are carried out on the contact and sampling place in Kroměříž
- with index <sup>10)</sup> are carried out on the site in Prague, Na Harfě 916/9a



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#### Explanation

**Volatile organic compounds<sup>1)</sup>** – 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-Dichloropropene, 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-Dichloroethene, cis-1.3-Dichloropropene, 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, Tetrahydrofuran, Tetrachloroethene, Tetrachloromethane, Toluene, trans-1.2-Dichloroethene, trans-1.3-Dichloropropylene, Trichloroethene, Trichlorofluoromethane, Vinyl Acetate, Vinyl Chloride, Sums calculation according to CZ\_SOP\_D06\_03\_J02

**Volatile organic compounds<sup>2)</sup>** – 1.1.1-Trichloroethane, 1.1.2.2-Tetrachloroethane, 1.1.2-Trichloro-1.2.2-Trifluoroethane, 1.1.2-Trichloroethane, 1.1-Dichloroethane, 1.1-Dichloroethene, 1.2.3-Trichlorobenzene, 1.2.4-Trichlorobenzene, 1.2.4-Trimethylbenzene, 1.2-Dichloro-1.1.2.2-Tetrafluoroethane, 1.2-Dichlorobenzene, 1.2-Dichloroethane, 1.2-Dichloropropane, 1.3.5-Trichlorobenzene, 1.3.5-Trimethylbenzene, 1.3-Butadiene, 1.3-Dichlorobenzene, 1.4-Dichlorobenzene, 1.4-Dioxane, 2-Butanone, 2-Hexanone, 2-Propanol, 4-Ethyltoluene, Acetone, Benzene, Bromomethane, cis-1.2-Dichloroethene, Cyclohexane, Dichloromethane, Ethanol, Ethylbenzene, Hexachlorobutadiene, Chlorobenzene, Chloroethane, Chloromethane, Chloroform, Isooctane, Isopropylbenzene, Methylcyclohexane, Methyl Isobutyl Ketone, m-Xylene, n-Heptane, n-Hexane, n-Propylbenzene, o-Xylene, p-Xylene, Carbon disulfide, Styrene, Tetrahydrofuran, Tetrachloroethene, Tetrachloromethane, Toluene, trans-1.2-Dichloroethene, trans-1,3-dichloropropene, Trichloroethene, Trichlorofluoromethane, vinyl acetate, vinyl chloride, Sums calculation according to CZ\_SOP\_D06\_03\_J02

**Volatile organic compounds<sup>3)</sup>** – 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, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Acetone, Aliphates >C5-C8, Aliphates >C8-C10, Benzene, Bromobenzene, Bromodichloromethane, Bromochloromethane, Bromomethane, Bromoform, cis-1.2-Dichloroethene, cis-1.3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Dichloromethane, Diisopropyl ether, Ethanol, Ethylbenzene, Ethyl tert-Butyl Ether (ETBE), Hexachlorobutadiene, Chlorobenzene, Chloroethane, Chloromethane, Chloroform, Indane, Isobutanol, Isobutyl Acetate, Isopropylbenzene, Methyl tert-Butyl Ether (MTBE), m-Xylene, Naphthalene, n-Butanol, n-Butyl Acetate, n-Butylbenzene, n-Propylbenzene, o-Xylene, p-Isopropyltoluene, p-Xylene, sec-Butanol, sec-Butyl Acetate, sec-Butylbenzene, Styrene, TAAE, TBA, tert-Amyl Methyl Ether, tert-Butanol, tert-Butyl Acetate, tert-Butylbenzene, Tetraethyl lead, Tetrachloroethene, Tetrachloromethane, Toluene, trans-1.2-Dichloroethene, trans-1.3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride, Sums calculation according to CZ\_SOP\_D06\_03\_J02

**Volatile organic compounds<sup>4)</sup>** – 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\_D06\_03\_J02

**Organic contaminants<sup>5)</sup>** – 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-methylantracene, 1-methylantracene, 2-methylphenanthrene, 1-methylphenanthrene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, indeno-(1,2,3,c,d)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, methylpyrenes/ methylfluoranthenes, methylchrysenes/ methylbenzo-[a]-anthracenes, 1,2-dichlorobenzen, 1,3-dichlorobenzen, 1,2,4-trichlorobenzen, 1,3,5-trichlorobenzen, 1,2,3,4-tetrachlorobenzen, 1,2,4,5-tetrachlorobenzen, 1,2,3,5-tetrachlorobenzen, pentachlorobenzene, hexachlorobenzene, PCB 28, PCB 52, PCB 101, PCB 118, PCB 153, PCB 138, PCB 180, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Phenols, chlorinated phenols and cresols<sup>6)</sup>** – 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,6-dichlorophenol, 2,4+2,5-dichlorophenol, 3,5-dichlorophenol, 2,3-dichlorophenol, 3,4-dichlorophenol, 2,4,6-trichlorophenol, 2,3,6-trichlorophenol, 2,3,5-trichlorophenol, 2,4,5-trichlorophenol, 2,3,4-trichlorophenol, 3,4,5-trichlorophenol, 2,3,5,6-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, 2,3,4,5-tetrachlorophenol, pentachlorophenol, 4-chloro-2-methylphenol, 2-chloro-6-methylphenol, phenol, o-cresol, m-cresol, p-cresol, 2,3-dimethylphenol, 2,4-dimethylphenol, 2,5-dimethylphenol, 2,6-dimethylphenol, 3,5-dimethylphenol, 3,4-dimethylphenol, 1-naphthol, 2-naphthol, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Phthalates<sup>7)</sup>** – 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

**Sugars<sup>8)</sup>** – glucose, fructose, lactulose, maltose, sucrose

**Semi-volatile organic compounds<sup>9)</sup>** – acenaphthene, acenaphthylene, anthracene, benzo-(a)-anthracene, benzo-(a)-pyrene, benzo-(a)-fluoranthene, benzo-(b)-fluoranthene, benzo-(g,h,i)-perylene, benzo-(k)-fluoranthene, dibenzo-(a,h)-anthracene, phenanthrene, fluoranthene, fluorine, chrysene, indenopyrene,

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naphthalene, pyrene, 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, dichlobenil,  $\epsilon$ -HCH, octachlorostyrene, di-n-butylphthalate, bis(2-ethylhexyl) phthalate (DEHP), endosulfan-sulphate, mirex, cis-chlordane, trans-chlordane, oxychlordane, cis-nonachlor, trans-nonachlor, PBB 153, pentachlorotoluene, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Polycyclic aromatic hydrocarbons<sup>10)</sup>** – naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, indeno-(1,2,3,c,d)-pyrene, coronene, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Polychlorinated biphenyls<sup>11)</sup>** - PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Organochlorine pesticides<sup>12)</sup>** – 1,2,3,4-tetra tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, 2,4'-DDD (TDE), 2,4'-DDE, 2,4'-DDT, 4,4'-DDD (TDE), 4,4'-DDE, 4,4'-DDT, alachlor, aldrin, bis(2-ethylhexyl)phthalate (DEHP), cis-heptachloroepoxide, cis-chlordane, cis-nonachlor, dieldrin, dichlobenil, endosulfan-sulphate, endrin, heptachlor, hexabromobiphenyl (PBB 153), hexachlorobenzene, hexachlorobutadiene, hexachloroethane, isodrin, methoxychlor, mirex, octachlorostyrene, oxychlordane, pentachloroaniline, pentachlorobenzene, quintozone, telodrin (isobenzan), toxafen, trans-heptachloroepoxide, trans-chlordane, trans-nonachlor, trifluralin,  $\alpha$ -endosulphan,  $\alpha$ -HCH,  $\beta$ -endosulphan,  $\beta$ -HCH,  $\gamma$ -HCH (Lindan),  $\delta$ -HCH,  $\epsilon$ -HCH, calculation of sums according to CZ\_SOP\_D06\_03\_J02

**PCDD/PCDF<sup>13)</sup>** - 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\_J02

**PCB<sup>14)</sup>** - 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\_J02

**BFR<sup>15)</sup>** - tri-BDE 28, tetra-BDE 47, tetra-BDE 66, tetra-BDE 77, penta-BDE 85, penta-BDE 99, penta-BDE 100, hexa-BDE 138, hexa-BDE 153, hexa-BDE 154, hepta-BDE 183, BDE 203, deca-BDE 209, BB 209, sums calculation according to CZ\_SOP\_D06\_06\_J02

**Alkylphenols, alkylphenoxyethoxylates<sup>16)</sup>** - 4-nonylphenol (mixture of isomers), 4-n-nonylphenol, 4-nonylphenol monoethoxylate (mixture of isomers), 4-nonylphenol diethoxylate (mixture of isomers), 4-nonylphenol triethoxylate (mixture of isomers), 4-n-octylphenol, 4-tert-octylphenol, 4-tert-octylphenol monoethoxylate, 4-tert-octylphenol diethoxylate, 4-tert-octylphenol triethoxylate, bisphenol A, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Fatty acids<sup>18)</sup>** – butyric, capronic, 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, docosadienoic, eicosapentaenoic, docosahexaenoic, elaidic

**Aniline and aniline derivatives<sup>21)</sup>** – p-chloroaniline

**Vitamine D<sup>22)</sup>** – vitamine D2 and vitamine D3

**Substitute sweeteners<sup>23)</sup>** – aspartame, acesulfam-K, saccharine, neohesperidine DC

**Preservatives<sup>24)</sup>** – sorbic acid, benzoic acid

**Radionuclides<sup>25)</sup>** – Radionuclides emitting gamma rays in the energy interval 46.5 – 1836 keV.

**Glycols<sup>26)</sup>** - 1,2-propandiol, monopropylenglycol (as C), ethylenglycol, ethylenglycol (as C), 1,3-butandiol, diethylenglycol, diethylenglycol (as C), triethylenglycol, triethylenglycol (as C)

**Semi-volatile organic compounds (isotopic dilution)<sup>27)</sup>** - – 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, hexachlorobenzene, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Alkylphenols, alkylphenoxyethoxylates<sup>28)</sup>** - 4-nonylphenol (mixture of isomers), 4-nonylphenol monoethoxylate (mixture of isomers), 4-nonylphenol diethoxylate (mixture of isomers), 4-nonylphenol triethoxylate (mixture of isomers), 4-tert-octylphenol, 4-tert-octylphenol monoethoxylate, 4-tert-octylphenol diethoxylate, 4-tert-octylphenol triethoxylate, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Acid herbicides, drug residues and other pollutants<sup>29)</sup>** - 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,4-DP (isomers), 4-CPP, acifluorfen, aminopyralide, bentazone, bromoxynil, caffeine, clopyralid, dicamba, dichlorprop-P, diclofenac, diclofop, dinoseb, dinoterb, DNOC, fluroxypyr, ibuprofen, ioxynil, MCPA, MCPB, MCPP, MCPP (isomers), mecoprop-P, picloram, propoxycarbazone-sodium, triclopyr, triclosan, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Acid herbicides and drug residues<sup>29A)</sup>** - 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

**Pesticides, pesticide metabolites, drug residues and other pollutants<sup>30)</sup>** – 1-(3,4-dichlorophenyl) urea (DCPU), 17-alpha-ethinylestradiol, 17-beta-estradiol, 2-amino-N-(isopropyl)benzamide, 2-chlor-2,6-diethylacetanilide, 2-isopropyl-6-methyl-4-pyrimidinol, 3,4-dichloroaniline (DCA), 3-chloro-4-methylaniline, 6-chloronicotinic acid, acetamiprid, acetochlor, acetochlor ESA, acetochlor OA, acibenzolar-S-methyl, aclonifen, acrinathrin, acrylamide, alachlor, alachlor ESA, alachlor OA, aldicarb, aldicarb sulfone, aldicarb sulfoxide, aldoxycarb, allethrin, ametryn, amidithion, amidosulfuron, amitraz, anilazin, asulam, atraton, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desethyl-desisopropyl, atrazine-desisopropyl, azaconazole, azinphos-ethyl, azinphos-methyl, azoxystrobin, azoxystrobin o-demethyl, BAM (2,6-dichlorbenzamid), BDMC, benalaxyl, bendiocarb, bentazone, bentazone methyl, beta.cyfluthrin, bifenox, bifenthrin, bitertanol, boscalid, bromacil, bromophos-ethyl, bromoxynil, buprofezin, cadusafos, carbamazepine, carbaryl, carbendazim, carbetamide, carbofuran, carbofuran-3-hydroxy, carboxin, carfentazone-ethyl, chlorantraniliprole, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlormequat, chlorotoluron, chlortoluron-desmethyl, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chlorsulfuron, clodinafop, clodinafop propargyl, clofentezine, clomazone, clomeprop, clothianidin, coumafos, crimidine, cyanazin, cybutrine (irgarol), cyflufenamid, , cymoxanil, cypermethrin, cyphenothrin, cyprazin, cyproconazole, cyprodinil, cyromazine, DEET, deltamethrin (isomers), desmedipham, desmetryn, diazinon, dichlofenthion, dichlorimid, dichlorvos, dicrotophos, diethofencarb, difenoconazole, difenoxuron, diflubenzuron, diflufenican, diquat, dimefuron, dimethachlor, dimethenamid, dimethylaminosulfanilide, dimethoate, dimetomorf, dimoxystrobin, diuron, diuron desmethyl (DCPMU),

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epoxiconazole, EPTC, estriol, estron, ethiofencarb, ethion, ethofumesate, ethoprophos, ethoxazole, famoxadone, famphur, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenarimol, fenhexamid, fenothiocarb, fenoxaprop, fenoxycarb, fenpropathrin, fenpropidin, fenpropimorph, fensulfothion, fenuron, fipronil, fipronil sulfone, florasulam, fluazifop, fluazifop-butyl, fluazifop-butyl (isomers), fluazifop-P, fluazifop-p-butyl, fludioxonil, fluopyram, fluquinconazole, flusilazol, flutolanil, fonofos, foramsulfuron, fosthiazate, furalaxyl, furathiocarb, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-methyl (isomers), haloxyfop-p-methyl, hexaconazole, hexazinone, hexythiazox, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, indoxacarb, iprodione, iprovalicarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, isopyrazam, kresoxim-methyl, lambda-cyhalothrin, lenacil, linuron, malaaxon, malathion, mandipropamid, MCPA, MCPP (isomers), mecarbam, mefenpyr-diethyl, mepiquat, mesosulfuron-methyl, mesotrion, mestranol, metalaxyl, metalaxyl (isomers), metamitron, metazachlor, metazachlor ESA, metazachlor OA, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methomyl oxime, methoxyfenozide, metconazole, metabromuron, metolachlor, metolachlor (isomers), metolachlor (S), metolachlor ESA, metolachlor OA, metoxuron, metrafenone, metribuzin, metribuzin-desamino, metribuzin-desamino diketo, metribuzin-diketo, metsulfuron-methyl, molinate, monocrotophos, monolinuron, monuron, myclobutanil, napropamide, naptalam, neburon, nicosulfuron, norflurazon, nuarimol, omethoate, oxadiazon, oxadixyl, oxamyl, oxyfluorfen, paclobutrazol, paraquat, paraoxon-ethyl, paraoxon-methyl, parathion-ethyl, penconazole, pencycuron, pendimethalin, permethrin, pethoxamid, phenmedipham, phenothrin, phorate, phosalone, phosmet, phosmet-oxon, phosphamidon, picloram, picoxystrobin, pirimicarb, pirimiphos-ethyl, pirimiphos-methyl, p-isopropylaniline, pretilachlor, primisulfuron-methyl, prochloraz, prodimamine, profenofos, promecarb, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propanil, propaquizafop, propazine, propham, propiconazole, propoxur, propoxycarbazone-sodium, propylen thiourea, propylamide, prosulfocarb, prothioconazole, pyraclostrobin, pyribenzoxim, pyridaben, pyrimethanil, pyriproxyfen, quinalphos, quinclorac, quinmerac, quinoxifen, quizalofop, quizalofop-p-ethyl, rimsulfuron, sebuthylazine, sebumeton, sedaxane, sethoxydim, simazine, simazine-2-hydroxy, simetryn, spiroxamine, sulfamethoxazole, sulfosulfuron, tau-fluvalinate, tebufenpyrad, tebuconazole, tebutiuron, teflubenzuron, tefluthrin, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, tetramethrin, thiabendazole, thiacloprid, thiametoxam, thiazafluron, thidiazuron, thifensulfuron-methyl, thiofencarb, thiofanate-methyl, tolclofos-methyl, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl, tricyclazole, trifloxystrobin, trifloxysulfuron sodium, triflumizole, triflumuron, triflusaluron-methyl, triforine, trinexapac-ethyl, triticonazole, tritosulfuron, warfarin, zoxamide, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Pesticides, pesticide metabolites and drug residues<sup>30A)</sup>** – 6-chloronicotinic acid, acetamiprid, acetochlor, alachlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametryn, amitraz, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazin-desisopropyl, azoxystrobin, bifenthrin, boscalid, cadusafos, carbaryl, carbofuran, carbofuran-3-hydroxy, chlorfenvinphos, chlormequat, chlorotoluron, chlorpyrifos, clomazone, clothianidin, cyanazine, cyhalothrin (isomers), cypermethrin (isomers), cyproconazole, deltamethrin (isomers), desmetyrn, diazinon, dichlorvos, dicrotophos, dimethoate, dimoxystrobin, diquat, diuron, epoxiconazole, fenoxycarb, fipronil, fipronil sulfone, fonofos, hexazinone, imidacloprid, imidacloprid olefin, imidacloprid urea, indoxacarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, kresoxim-methyl, malaaxon, malathion, mepiquat, metamitron, metazachlor, metconazole, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methomyl-oxime, metolachlor (isomers), metribuzin, paraquat, pendimethalin, permethrin (isomers), pethoxamid, phorate, phosalone, phosmet, phosmet-oxon, phosphamidon, pirimicarb, prochloraz, prometon, prometryn, propazin, propoxur, pyrimethanil, sebuthylazine, simazine, simetryn, tau-fluvalinate, tebuconazole, terbuthylazin, terbuthylazin-desethyl, terbuthylazine-hydroxy, terbutryn, thiacloprid, thiamethoxam, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Pesticides, pesticide metabolites and drug residues<sup>30B)</sup>** – 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, thiacloprid, thiamethoxam, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Pesticides MS detection<sup>31)</sup>** - azinphos methyl, bromophos-ethyl, bromocyclen, butralin, captan, carbophenothion, demeton-S-methyl, diazinon, dichlorvos, dimethoate, dimethipin, ethion, fenamiphos, fenthion, chlordecon, chlorfenvinphos, chlorpyrifos, chlorpyrifos methyl, malathion, monocrotophos, parathion ethyl, parathion methyl, phorate, phosmet, pirimiphos ethyl, prothiofos, fenitrothion, temephos, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Pesticides and their metabolites MS detection<sup>32)</sup>** - amitrole, AMPA, glufosinate, glufosinate ammonium, glyphosate, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Complexing substances<sup>33)</sup>** - EDTA, PDTA and NTA

**Halogen compounds<sup>34)</sup>** - chloroalkanes C10-C13, C14-C17

**SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6<sup>35)</sup>** – SAFA – 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), MUFA - 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), PUFA - linoleic (C18:2n6c), linoleic (C18:3n6),  $\gamma$ -linoleic (C18:3n3), cis-11,14-eicosadienoic (C20:2), cis-8,11,14-eikosatrienoic (C20:3n6), cis-11,14,17-eikosatrienoic (C20:3n3), arachidonic (C20:4n6), cis-13,16-docosadienoic (C22:2), cis-5,8,11,14,18-eikosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), TFA - elaidic (C18:1n9t), linoleic (C18:2n6t), C18:3 trans isomery, Omega 3 - linoleic (C18:3n3), cis-11,14,17-eikosatrienoic (C20:3n3), cis-5,8,11,14,18-eicosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), Omega 6 - linoleic (C18:2n6c),  $\gamma$ -linoleic (C18:3n6), cis-8,11,14-eikosatrienoic (C20:3n6), arachidonic (C20:4n6), cis-11,14-eicosadienoic (C20:2), cis-13,16-docosadienoic (C22:2)

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

**Organic acids<sup>37)</sup>** – caproic acid, butyric acid, isobutyric acid, lactic acid, formic acid, acetic acid, propionic acid, valeric acid, isovaleric acid

**Gases<sup>38)</sup>** – methane, ethane, ethylene, acetylene

**Polychlorinated biphenyls<sup>39)</sup>** - PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, PCB194, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Phenols and cresols<sup>40)</sup>** – phenol, o-cresol, m-cresol, p-cresol, 2,3-dimethylphenol, 2,4-dimethylphenol, 2,5-dimethylphenol, 2,6-dimethylphenol, 3,5-dimethylphenol, 3,4-dimethylphenol, sums calculation according to CZ\_SOP\_D06\_03\_J02

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

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

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

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

**Elements<sup>45)</sup>** - 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

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

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

**CO<sub>2</sub> forms<sup>48)</sup>** - carbonates, bicarbonates, free CO<sub>2</sub>, total CO<sub>2</sub>, aggressive CO<sub>2</sub>

**Elements<sup>49)</sup>** - Ag, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, Pb and Zn

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

**Calculation forms of elements<sup>51)</sup>** - 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> and SiO<sub>2</sub>

**Stoichiometric calculation<sup>52)</sup>** - ion form Cr<sup>3+</sup>, compound PO<sub>4</sub><sup>3-</sup>

**Stoichiometric calculation<sup>53)</sup>** - compound NaCl

**Polycyclic aromatic hydrocarbons<sup>54)</sup>** - naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)-pyrene, benzo-(e)-pyrene, benzo-(j)-fluoranthene, benzo-(c)-phenanthrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene, indeno(1,2,3,c,d)pyrene, phenanthrene-1-methyl, 2-methyl-phenanthrene, 3-methyl-phenanthrene, 4-methyl-phenanthrene, 9-methyl-phenanthrene sums calculation according to CZ\_SOP\_D06\_06\_J03

**Chlorinated phenols<sup>55)</sup>** - 2-amino-4-chlorophenol

**Drug Residues<sup>56)</sup>** - anastrozole, atenolol, azathioprine, beclomethasone dipropionate, capecitabine, cyclosporin, cyproteron acetate, diazepam, fluticasone 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 tartarate

**Synthetic dyes<sup>57)</sup>** - E102 (Tartrazine), E104 (Quinoline yellow), E110 (Yellow SY), E122 (Azorubin), E123 (Amaranth), E124 (Ponceau 4R), E127 (Erythrosin), E129 (Allura Red AC), E131 (Patent Blue V), E132 (Indigotine), E133 (Brilliant Blue), E142 (Green S), E151 (Black BN)

**Perfluorinated compounds<sup>58)</sup>** - 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 (PFTTrDA), Perfluorotetradecanoic acid (PFTTeDA), Perfluorobutane sulfonic acid (PFBS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorodecane sulfonic acid (PFDS), Perfluorododecane sulfonic acid (PFDoDS), 6:2 Fluorotelomer sulfonic acid (6:2 FTS), 8:2 Fluorotelomer sulfonic acid (8:2 FTS), Perfluorooctane sulfonamide (FOSA), N-Methyl perfluorooctane sulfonamide (MeFOSA), N-Ethyl perfluorooctane sulfonamide (EtFOSA), N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE), N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE), Hexabromocyclododecane (HBCD), Tertabromobisphenol-A (TBBP-A)

**Perfluorinated compounds<sup>58A)</sup>** - 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 (PFTTrDA), Perfluorotetradecanoic acid (PFTTeDA), Perfluorobutane sulfonic acid (PFBS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorodecane sulfonic acid (PFDS), 6:2 Fluorotelomer sulfonic acid (6:2 FTS), 8:2 Fluorotelomer sulfonic acid (8:2 FTS), Perfluorooctane sulfonamide (FOSA), N-Methyl perfluorooctane sulfonamide (MeFOSA), N-Ethyl perfluorooctane sulfonamide (EtFOSA), N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE), N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE), Hexabromocyclododecane (HBCD), Tertabromobisphenol-A (TBBP-A)

**Volatile organic compounds<sup>59)</sup>** - 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

**Elements<sup>60)</sup>** - Ag, Al, As, Au, B, Ba, Be, Bi, Br (water extractable) Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hg, Ho, I (water extractable) 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

**Drug residues<sup>61)</sup>** - 17-alpha-ethinylestradiol, 17-beta-estradiol, anastrozole, atenolol, azathioprine, buprenorphine, butorphanol, caffeine, capecitabine, carbamazepine, chloramphenicol, clofibrate, cyclobenzaprine, cyclophosphamide, cyproterone acetate, diazepam, diclofenac, enalapril, estriol, estrone, flutamide, fluticasone propionate, furosemide, gemfibrozil, hydrochlorothiazide, ibuprofen, ifosfamide, iohexol, iomeprol, iopamidol, iopromide, ketoprofen, loperamide, medroxyprogesterone acetate, megestrol acetate, metoprolol, metronidazole, mycophenolate mofetil, naproxen, oxazepam, paclitaxel, paracetamol (acetaminophen), piroxicam, propranolol, salbutamol, sotalol, sulfamethoxazole, terbutaline, tramadol, triamcinolone acetonide, trimethoprim, valsartan, warfarin, zolpidem

**Organic Acides<sup>62)</sup>** - acetic acid, propionic acid, isobutyric acid, butyric acid, isovaleric acid, valeric acid, isocaproic acid, caproic acid, heptanoic acid

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**Meat contend calculation<sup>63)</sup>** – calculated from the results of the determination of ash according to CZ\_SOP\_D06\_04\_458, protein according to CZ\_SOP\_D06\_04\_475, moisture according to CZ\_SOP\_D06\_04\_452, fat according to CZ\_SOP\_D06\_04\_482, hydrosiproline according to CZ\_SOP\_D06\_04\_481

**Determination of carbohydrates and energy value<sup>64)</sup>** - calculated from the results of the determination of ash according to CZ\_SOP\_D06\_04\_458, protein according to CZ\_SOP\_D06\_04\_475, moisture according to CZ\_SOP\_D06\_04\_452, fat according to CZ\_SOP\_D06\_04\_482, dietary fibre according to CZ\_SOP\_D06\_04\_465

**Determination of non-protein content substances<sup>65)</sup>** – calculated from the results of the determination of moisture according to CZ\_SOP\_D06\_04\_452, total nitrogen according to CZ\_SOP\_D06\_04\_475, fat according to CZ\_SOP\_D06\_04\_482, ash according to CZ\_SOP\_D06\_04\_458, crude fibre according to CZ\_SOP\_D06\_04\_465

**The calculation of indicative dose (ID)<sup>66)</sup>** – 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 rays 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)

**Surface waters<sup>67)</sup>** for chlorophyll determination – flowing watercourses, stagnant waters – lakes, reservoirs, ponds and seawater

Annex:

Flexible range of accreditation

| Ordinal numbers of tests   |
|--|
| 1.1 - 1.12; 1.15 - 1.18; 1.51; 1.67 - 1.70; 1.84; 1.91; 1.113 - 1.116; 1.122 - 1.126; 1.128; 1.131 - 1.132; 1.138; 1.140; 1.146; 1.151 - 1.152; 1.163 - 1.165; 1.178 |
| 2.1 – 2.34; 2.38 - 2.41; 2.43 - 2.46; 2.51 - 2.55; 2.57 - 2.76; 2.78 - 2.86; 2.88; 2.89  |
| 3.1; 3.2 – 3.15; 3.21; 3.25; 3.27  |
| 4.9; 4.10; 4.21  |
| 6.1 – 6.11   |
| 7.3; 7.17  |
| 9.37   |

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

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

## SAMPLING

| Ordinal number                | Test procedure/method name  | Test procedure/method identification   | Tested object                      |
|-------------------------------|---|--|------------------------------------|
| 1 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of grab sample of surface water manually                               | CZ_SOP_D06_07_V01<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-4, ČSN ISO 5667-6, ČSN ISO 5667-14)   | Surface water                      |
| 2 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of grab sample of waste water manually                                 | CZ_SOP_D06_07_V02<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-10, ČSN ISO 5667-14,)   | Waste water                        |
| 3 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of drinking water and hot drinking water manually                      | CZ_SOP_D06_07_V03<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-5, ČSN ISO 5667-14, ČSN EN ISO 5667-21, ČSN EN ISO 19458 Regulation 252/2004 Sb., Regulation SÚJB No. 307/2002 Sb.) | Drinking water, hot drinking water |
| 4 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of mixed sample of waste water manually and using an automatic sampler | CZ_SOP_D06_07_V04<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-10, ČSN ISO 5667-14, Regulation 293/2002 Sb.)   | Waste water                        |

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| Ordinal number                 | Test procedure/method name                                       | Test procedure/method identification   | Tested object                                     |
|--------------------------------|--|--|---|
| 5 <sup>1)2)4)5)6)7)8)9)</sup>  | Sampling of treated water manually                               | CZ_SOP_D06_01_V05<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-5, ČSN ISO 5667-7, ČSN ISO 5667-14)   | Treated water                                     |
| 6 <sup>1)2)4)5)6)7)8)9)</sup>  | Sampling of water from artificial pool manually                  | CZ_SOP_D06_01_V06<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-4, ČSN ISO 5667-5, ČSN ISO 5667-6, ČSN ISO 5667-14, ČSN EN ISO 19458, ČSN EN ISO 15288-2, Regulation No. 238/2011 Sb.)  | Pools water and filling water of artificial pools |
| 7 <sup>1)2)4)5)6)7)8)9)</sup>  | Sampling of grab sample of ground water manually and using pumps | CZ_SOP_D06_07_V07<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-11, ČSN ISO 5667-14, ČSN ISO 5667-18)   | Ground water from boreholes and wells             |
| 8 <sup>1)2)4)5)6)7)8)9)</sup>  | Sampling of surface swab manually                                | CZ_SOP_D06_07_V08<br>(ČSN 56 0100 Change 6, ČSN ISO 18593, Regulation 289/2007 Sb., ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-14)   | Contaminated surfaces                             |
| 9 <sup>1)2)4)5)6)7)8)9)</sup>  | Sampling of the sludge from sewage and treatment plants manually | CZ_SOP_D06_07_V09<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN ISO 5667-14, ČSN EN ISO 5667-15, ČSN EN ISO 19458)   | Sludge from water treatment plants, sludge dumps  |
| 10 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of bottom sediments manually                            | CZ_SOP_D06_07_V10<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-12, ČSN ISO 5667-14, ČSN EN ISO 5667-15, ČSN ISO 5667-17)   | Bottom sediments from streams and reservoirs      |
| 11 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of soils manually                                       | CZ_SOP_D06_07_V11<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN ISO 5667-14, ČSN ISO 5667-15, TNI CEN/TR 15310-1, TNI CEN/TR 15310-2, TNI CEN/TR 15310-3, TNI CEN/TR 15310-4, TNI CEN/TR 15310-5 ČSN 015110, ČSN 015111, ČSN EN 14899, ČSN EN ISO 19458, ČSN ISO 10381-6)  | Soils   |
| 12 <sup>1)2)4)5)6)7)8)9)</sup> | Sampling of waste manually                                       | CZ_SOP_D06_07_V12<br>(ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN ISO 5667-14, ČSN ISO 5667-15, TNI CEN/TR 15310-1, TNI CEN/TR 15310-2, TNI CEN/TR 15310-3, TNI CEN/TR 15310-4, TNI CEN/TR 15310-5, ČSN 015110, ČSN 015111, ČSN 015112, ČSN EN 14899, ČSN EN ISO 19458, ČSN EN ISO 3170, Methodological Guide of ME for Waste Sampling 2008, 101s) | Waste   |
| 13 <sup>1)2)4)5)6)7)8)9)</sup> | Air sampling by personal pump                                    | CZ_SOP_D06_07_V13<br>(ČSN EN 481, ČSN EN 482+A1, ČSN EN 689, GR No. 361/2007 Coll.)  | Working environment                               |
| 14 <sup>1)</sup>               | Sampling of food by random sampling method                       | CZ_SOP_D06_04_V14<br>(Decree 211/2004 Coll., Commission Regulation (EC) 2073/2005)   | Packages foods and beverages                      |
| 15 <sup>1)2)4)5)6)</sup>       | Gas sampling for the determination of ammonia                    | CZ_SOP_D069_07_V15<br>(ČSN 834728)   | Gases   |

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| Ordinal number | Test procedure/method name | Test procedure/method identification | Tested object |
|----------------|----------------------------|--------------------------------------|---------------|
| 7)8)9)         |                            |                                      |               |