



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. 81/2020

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

Scope of accreditation:

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

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.: 453/2019 of 4. 9. 2019, or any administrative acts building upon it.

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

Prague: 6. 2. 2020



  
**Jiří Růžička**  
Director  
Czech Accreditation Institute  
Public Service Company

**Appendix is an integral part of  
Certificate of Accreditation No.: 81/2020 of 06/02/2020**

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

**ALS Czech Republic, s.r.o.  
Na Harfě 36/9, 190 00 Praha 9**

**Testing laboratory's Workplaces:**

1	Prague	Na Harfě 336/9, 190 00 Praha 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 Praha 9
11	Prague	Kolbenova 942/38a, 190 00 Prague 9

**Kontaktní a odběrová místa**

4	Brno	Vídeňská 134/102, 619 00 Brno
5	Ostrava	Vratimovská 11, 718 00 Ostrava
6	Plzeň	Lobežská 15, 301 46 Plzeň
7	Lovosice	U Zdymadel 827, 410 02 Lovosice
8	Rožnov pod Radhoštěm	1. Máje 823, budova C6, 756 61 Rožnov pod Radhoštěm
9	Kroměříž	Konojedská 2588/91, 767 01 Kroměříž

*The laboratory has a flexible scope of accreditation as detailed in the Annex.*

*The current list of activities carried out within the flexible scope is available at the laboratory's website [www.alsglobal.cz](http://www.alsglobal.cz) or at the Quality Manager.*

*The provides expert opinions and interpretations of test results.*

*The laboratory is competent to perform sampling.*

**Tests: GENERAL CHEMISTRY**

<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
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 CAM	<b>CZ_SOP_D06_02_001</b> (US EPA 200.7, ČSN EN 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> (US EPA 200.7, ČSN EN ISO 11885, US EPA 6010, SM 3120, samples prepared as per CZ_SOP_D06_02_J02 (US EPA 3050, 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, building materials, materials for building
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_04_001</b> (US EPA 200.7, ČSN EN ISO 11885, samples prepared as per CZ_SOP_D06_04_P01 (chap. 10.1, 10.3)	Food, feed

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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_04_001</b> (US EPA 200.7, ČSN EN ISO 11885, samples prepared as per CZ_SOP_D06_04_P01 (chap. 10.1, 10.3)	Biological material
1.5 <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> (US EPA 200.7, ČSN EN ISO 11885, ČSN EN 13211, ČSN EN 14385, ČSN EN 14902, IO 3.4, US EPA 29, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1, 10.2, 10.16.1 - 10.16.4)	Emission, imission
1.6 <sup>1)</sup>	Determination of elements <sup>47)</sup> by atomic emission spectrometry with inductively coupled plasma	<b>CZ_SOP_D06_04_001</b> (US EPA 200.7, ČSN EN ISO 11885, ČL/PhEur/USP, sample preparation as per CZ_SOP_D06_04_P01 (chap.10.1, 10.3))	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> (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> (US EPA 200.8, ČSN EN ISO 17294-2, US EPA 6020A, 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, building materials, materials for building
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	<b>CZ_SOP_D06_04_002</b> (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111, samples prepared as per CZ_SOP_D06_04_P01 (chap. 10.1, 10.2, 10.3))	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	<b>CZ_SOP_D06_04_002</b> (US EPA 200.8, ČSN EN ISO 17294-2, samples prepared as per CZ_SOP_D06_04_P01 (chap. 10.1, 10.2, 10.3))	Biological material
1.11 <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> (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 13211, ČSN EN 14385, ČSN EN 14902, US EPA 29, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1, 10.2, 10.16.1 - 10.16.4)	Emission, imission

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1.12 <sup>1)</sup>	Determination of elements <sup>60)</sup> by mass spectrometry with inductively coupled plasma	<b>CZ_SOP_D06_04_002</b> (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111, ČL/PhEur/USP, samples prepared as per CZ_SOP_D06_04_P01 (chap. 10.1, 10.2, 10.3))	Pharmaceutical material
1.13 <sup>1)</sup>	Determination of Hg by atomic absorption spectrometry	<b>CZ_SOP_D06_02_003</b> (ČSN 46 5735, ČSN 75 7440, samples prepared as per CZ_SOP_D06_02_J02 (ISO 11466) chap.10.1 to 10.17.14, 10.20)	Water, extracts, liquid samples, solid samples, emission, imission, building materials, materials for building
1.14 <sup>2)</sup>	Determination of Hg by single-purpose atomic absorption spectrometer	<b>CZ_SOP_D06_07_004</b> (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> (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> (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> (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> (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> (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> (ČSN EN 25663, ČSN EN 13342, ČSN ISO 7150-1)	Solid samples
1.21 <sup>2)</sup>	Determination of Cr <sup>VI</sup> by spectrophotometry with diphenylcarbazide	<b>CZ_SOP_D06_07_008</b> (ČSN ISO 11083, ČSN EN 16192)	Water, extracts, absorption solutions from emission samples

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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> (ČSN EN ISO 6878)	Water, extracts
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> (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> (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> (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> (ČSN 75 7415, SM 4500 CN)	Solid samples
1.27 <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> (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> (ČSN ISO 6703-2)	Solid samples
1.29 <sup>2)</sup>	Determination of nonionic surfactants (BiAS) by spectrophotometry using the HACH cuvette test	<b>CZ_SOP_D06_07_014</b> (Hach Instruction)	Water, extracts
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> (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> (ČSN 83 0520:1978 No. 16, ČSN 83 0530:1980 No. 31)	Solid samples, building materials, materials for building
1.32 <sup>2)</sup>	Determination of sum of sulfan and sulfide by spectrophotometry	<b>CZ_SOP_D06_07_015.C</b> (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> (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> (Uniform Methods of Chemical Analysis of Water, SNTL Prague 1965)	Water, extracts
1.35 <sup>1)</sup>	Determination of the number of asbestos and mineral fibers by SEM / EDS	<b>CZ_SOP_D06_02_018</b> (ISO 14966, except chap. 5, 6.1 and 6.2; VDI 3492, except chap. 5 and 6, Regulation No. 6/2003 Coll., GR No. 361/2007 Coll., Annex No. 3)	Outdoor and indoor air, working environment - exposed filters

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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> (ČSN EN ISO 11732, ČSN EN ISO 13395, ČSN EN 16192, 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> (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> (ČSN EN 26777, ČSN EN 16192)	Water, extracts
1.39 <sup>1)</sup>	Determination of orthophosphate by discrete spectrophotometry and determination of orthophosphate's phosphorus by calculation from measured values including the calculation of total mineralization	<b>CZ_SOP_D06_02_022</b> (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> (ČSN 03 8526:1989, ČSN 83 0530:1980 No. 20, SM 4500-Cl <sup>-</sup> D)	Water, extracts, 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> (ČSN EN 480-10)	Solid samples, building materials, materials for building
1.42 <sup>1)</sup>	Determination of Hg by atomic absorption spectrometry	<b>CZ_SOP_D06_04_024</b> (ČSN 46 5735, ČSN 75 7440, ČL, PhEur, USP, sample preparation acc. to CZ_SOP_D06_04_P01 chap. 10.1)	Food, feed, biological materials, pharmaceutical materials
1.43 <sup>2)</sup>	Determination of extractable organically bound halogens (EOX) by coulometry	<b>CZ_SOP_D06_07_025.A</b> (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> (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> (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> (US EPA 9076)	Solid samples, oils, organic solvents
1.47 <sup>2)</sup>	Determination of adsorbable organically bound halogens (AOX) by coulometry	<b>(CZ_SOP_D06_07_028)</b> (ČSN EN ISO 9562, TNI 757531, 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> (ČSN ISO 6439)	Solid samples
1.49 <sup>2)</sup>	Determination of phenol index by spectrophotometric method after distillation	<b>CZ_SOP_D06_07_030</b> (ČSN ISO 6439, ČSN EN 16192)	Water, extracts, absorption solutions from emission samples

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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> (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> (ČSN 75 7360)	Water, extracts
1.52* <sup>1) 2)</sup> 4)5)6)7)8)9)	Field measurement of turbidity ZFn by turbidimeter	<b>CZ_SOP_D06_01_033</b> (ČSN EN ISO 7027-1)	Water, extracts
1.53 <sup>2)</sup>	Determination of humid substances by spectrophotometry	<b>CZ_SOP_D06_07_034</b> (ČSN 75 7536)	Drinking, surface water
1.54 <sup>2)</sup>	Determination of water colour by spectrophotometric method	<b>CZ_SOP_D06_07_035</b> (ČSN EN ISO 7887)	Water, extracts
1.55 <sup>2)</sup>	Determination of electrical conductivity	<b>CZ_SOP_D06_07_036</b> (ČSN EN 27888, ČSN EN 16192)	Water, extracts
1.56 <sup>2)</sup>	Determination of pH electrochemically	<b>CZ_SOP_D06_07_037</b> (ČSN ISO 10523, ČSN EN 16192)	Water, extracts
1.57 <sup>2)</sup>	Determination of base neutralizing capacity (acidity) by potentiometric titration	<b>CZ_SOP_D06_07_038</b> (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> (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> (ČSN ISO 6060)	Water, extracts
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 leachate
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, ČSN EN 12880, ČSN EN 14346, ČSN EN 15002)	Solid fossil fuels, solid biofuels, solid recovered fuels, sludge, waste
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</b> and OECD 301D, BOD determination according to CZ_SOP_D06_07_042 (ČSN EN 1899-1)	Chemicals and chemical products, water and waste leachate
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* <sup>1)2)4)5)6)7)</sup> 8)9)	Determination of dissolved oxygen by electrochemical method	<b>CZ_SOP_D06_01_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

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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	Reserved		
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>	Qualitative determination of asbestos by SEM/EDS	<b>CZ_SOP_D06_02_048</b> (ISO 22262-1, VDI 3866, part 5)	Solid samples (except liquid waste, biowaste), materials for building, building materials
1.72 <sup>1)</sup>	Quantitative determination of asbestos by SEM/EDS	<b>CZ_SOP_D06_02_049</b> (VDI 3866, part 5; DM 06/09/94 I GU n° 288 10/12/1994 All. 1 Met. B.)	Solid samples (except liquid waste, biowaste), materials for building, building materials
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
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> (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>CZ_SOP_D06_07_053</b> (ČSN EN 872)	Water, extracts
1.77 <sup>2)</sup>	Determination of dissolved solids and fixed dissolved solids using glass fibre filters by gravimetry and determination of volatile dissolved solids by calculation from measured values	<b>CZ_SOP_D06_07_054</b> (ČSN 75 7346, ČSN 75 7347)	Water, extracts
1.78 <sup>2)</sup>	Determination of 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> (ČSN ISO 10694, ČSN EN 13137:2002, 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> (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> (ČSN 75 7505:2006, SS 028145, STN 83 0520-27:2015, STN 83 0530-36, STN 830540-4, US EPA 418.1, SM 5520 F, DS/R 209, SFS 3010)	Water, extracts



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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> (SS 028145, 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> (ČSN 75 7506, SS 028145, STN83 0520-27.2015, STN 83 0540-4, DS/R 209, 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> (NIOSH 7602)	Dust
1.84* 1)2)4)5)6)7)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_01_061</b> (method used by HACH COMPANY, USA, ČSN EN ISO 7393-2)	Drinking water, warm water, raw water
1.85* 1)2)4)5)6)7)8)9)	Field measurement of temperature	<b>ČSN 75 7342</b>	Water
1.86* 1)2)4)5)6)7)8)9)	Field measurement of electrical conductivity	<b>CZ_SOP_D06_01_063</b> (ČSN EN 27888)	Water
1.87* 1)2)4)5)6)7)8)9)	Field measurement of pH electrochemically	<b>CZ_SOP_D06_01_064</b> (ČSN ISO 10523)	Water
1.88 <sup>1)</sup>	Sensory analysis of water – determination of odour and taste	<b>CZ_SOP_D06_04_065</b> (TNV 75 7340, ČSN EN 1622, STN EN 1622)	Drinking water
1.89 <sup>2)</sup>	Determination of phenols by continuous flow analysis (CFA) method spectrophotometrically	<b>CZ_SOP_D06_07_066</b> (ČSN EN ISO 14402, ČSN EN 16192, SKALAR company methodology)	Water, extracts, absorption solutions from emission sample
1.90 <sup>2)</sup>	Determination of anionic surfactants by methylene blue (MBAS) by continuous flow analysis (CFA) method spectrophotometrically	<b>CZ_SOP_D06_07_067</b> (ČSN ISO 16265, SKALAR company methodology, ČSN EN 903)	Water, extracts
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 sulphate sulphur by calculation from measured values including the calculation of total mineralization	<b>CZ_SOP_D06_02_068</b> (ČSN EN 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> (ČSN EN 13137:2002, 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> (ČSN EN 872, ČSN 757350, SM 2540 D, SM 2540 E)	Water, extracts

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1.94 <sup>1)</sup>	Determination of dissolved solids (RL) and dissolved solid annealed (RAS) using glass fibre filters by gravimetry and determination of loss on ignition of dissolved solids (RL550) by calculation from measured values	<b>CZ_SOP_D06_02_071</b> (ČSN 75 7346, ČSN 757347, ČSN EN 16192, ČSN EN 15216, SM 2540 C, SM 2540 E)	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 by calculation from measured values including the calculation of total mineralization	<b>CZ_SOP_D06_02_072</b> (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> (ČSN 75 7372)	Water, extracts
1.97 <sup>1)</sup>	Determination of turbidity by optical turbidimeter	<b>CZ_SOP_D06_02_074</b> (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> (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> (ČSN ISO 15705)	Water, extracts
1.100	Reserved		
1.101 <sup>1)</sup>	Determination of biochemical oxygen demand electrochemically after n days (BOD <sub>n</sub> ) by dilution method with allylthiourea addition	<b>CZ_SOP_D06_02_077</b> (ČSN EN 1899-1, EN ISO 5815-1)	Water, extracts
1.102 <sup>1)</sup>	Determination of biochemical oxygen demand electrochemically after n days (BOD <sub>n</sub> ) by method for undiluted samples	<b>CZ_SOP_D06_02_078</b> (ČSN EN 1899-2, ISO 5815-2)	Water, extracts
1.103 <sup>1)</sup>	Determination of colour by spectrophotometry	<b>CZ_SOP_D06_02_079</b> (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> a PO <sub>4</sub> <sup>3-</sup> by calculation from measured values	<b>CZ_SOP_D06_02_080</b> (ČSN EN ISO 6878, ČSN EN ISO 15681-1)	Water, extracts
1.105 <sup>1)</sup>	Determination of total nitrogen by discrete spectrophotometry after mineralization with peroxydisulfate	<b>CZ_SOP_D06_02_081</b> (ČSN EN ISO 11905-1)	Water, extracts
1.106 <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> (ČSN EN 1911)	Absorption solutions from emission sampling
1.107 <sup>2)</sup>	Determination of fluoride in absorption solution from emission sample of inorganic compounds of fluorine after separation by distillation by direct potentiometry and hydrogen fluoride determination by calculation from measured values	<b>CZ_SOP_D06_07_083</b> (ČSN 83 4752, Part 3)	Absorption solutions from emission sampling

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1.108 <sup>2)</sup>	Determination of sulphate in absorption solution from emission sample of sulphur dioxide by titration method and sulphur dioxide determination by calculation from measured values	<b>CZ_SOP_D06_07_084</b> (ČSN EN 14791)	Absorption solutions from emission sampling
1.109 <sup>2)</sup>	Determination of ammonia in absorption solution from emission sample by photometry after distillation	<b>CZ_SOP_D06_07_085</b> (ČSN 83 4728, Part 4)	Absorption solutions from emission sampling
1.110 <sup>1)</sup>	Determination of total substances by gravimetry	<b>CZ_SOP_D06_02_086</b> (ČSN 75 7346, ČSN 757347, ČSN EN 872, SM 2540 B, C, D)	Water
1.111 <sup>2)</sup>	Determination of pH, temperature and electrical conductivity by column test	<b>CZ_SOP_D06_07_087</b> (ČSN EN 14405, ČSN ISO 10523, ČSN 75 7342, ČSN EN 27888)	Solid samples
1.112 <sup>1)2)</sup>	Determination of pH, temperature and electrical conductivity by two stage batch tests	<b>CZ_SOP_D06_07_088</b> (ČSN EN 12457-3, ČSN ISO 10523, 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> (ČSN 75 7415, ČSN EN ISO 14403-2)	Water, extracts, absorption solutions from emission sampling
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> (ČSN 75 7415, ČSN EN ISO 17380, ČSN EN ISO 14403-2, SM 4500 CN)	Solid samples, building materials, materials for building
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> (ČSN ISO 6703-2, ČSN EN 16192, 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> (ČSN 75 7415, ČSN EN ISO 17380, ČSN EN ISO 14403-2, SM 4500 CN)	Solid samples, building materials, materials for building
1.117 <sup>1)</sup>	Determination of fluorides by electrochemical method (ISE)	<b>CZ_SOP_D06_02_091</b> (ČSN ISO 10359-1)	Water, extracts
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> (ČSN EN ISO 8467)	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> (ČSN EN 12260)	Water, extracts
1.121 <sup>1)</sup>	Qualitative determination of asbestos fibre by polarization microscope	<b>CZ_SOP_D06_02_095</b> (NIOSH 9002)	Solid samples (except liquid waste, biowaste), materials for building, building materials
1.122 <sup>1)</sup>	Determination of Mercury by Fluorescence Spectrometry	<b>CZ_SOP_D06_02_096</b> (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

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1.123 <sup>1)</sup>	Determination of Mercury by Fluorescence Spectrometry	<b>CZ_SOP_D06_02_096</b> (ČSN EN ISO 17852, PSA Application Note 025, ISO 16772:2004, 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, materials for building, building materials
1.124	<b>Reserved</b>		
1.125 <sup>1)</sup>	Determination of Mercury by Fluorescence Spectrometry	<b>CZ_SOP_D06_02_096</b> (ČSN EN ISO 17852, ČSN EN 13211, ČSN EN ISO 12846 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8)	Emission, imission
1.126	<b>Reserved</b>		
1.127	<b>Reserved</b>		
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> (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> (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> (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> (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> (ČSN ISO 11261)	Solid samples
1.133 * <sup>1)2)4)5)6)7)8)9)</sup>	Field measurement of oxidation-reduction potential (ORP) by potentiometry	<b>CZ_SOP_D06_01_103</b> (ČSN 75 7367)	Water
1.134 <sup>1)</sup>	Determination of grease and oils by gravimetry (extraction after evaporation)	<b>CZ_SOP_D06_02_104</b> (ČSN 75 7509)	Water
1.135 <sup>1)</sup>	Determination of pH by potentiometry	<b>CZ_SOP_D06_02_105</b> (ČSN ISO 10523, US EPA 150.1, ČSN EN 16192, SM 4500-H <sup>+</sup> B)	Water, extracts
1.136	<b>Reserved</b>		
1.137 <sup>2)</sup>	Determination of total nitrogen by modified Kjeldahl method	<b>CZ_SOP_D06_07_107</b> (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> (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> (ČSN EN ISO 16264, US EPA 370.1)	Water, extracts

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1.140 <sup>1)</sup>	Determination of Chlorophyll by spectrophotometry	<b>CZ_SOP_D06_02_110</b> (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> (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> (ČSN ISO 11263)	Solid samples
1.143 <sup>2)</sup>	Determination of pH electrochemically in the suspension in water, KCl, CaCl <sub>2</sub> , BaCl <sub>2</sub>	<b>CZ_SOP_D06_07_113</b> (ČSN ISO 10390, ČSN EN 12176:1999, ČSN EN 13037, ČSN EN 15933, ČSN 46 5735, ÖNORM L 1086-1, US EPA 9045D; US EPA 9040C)	Solid samples, materials for building, building materials
1.144 <sup>2)</sup>	Determination of formaldehyde by spectrophotometry	<b>CZ_SOP_D06_07_114</b> (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> (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> (ČSN ISO 6332)	Water, extracts
1.147 <sup>2)</sup>	Determination of total carbon (TC), total organic carbon (TOC) by combustion method with IR detection and calculation of total inorganic carbon (TIC) and carbonates from measured values	<b>CZ_SOP_D06_07_117</b> (methodology of Elementar Company, ČSN ISO 10694, ČSN EN 13137:2002, ČSN EN 15936)	Solid samples, building materials, materials for building
1.148 <sup>2)</sup>	Determination of permeability by falling head	<b>CZ_SOP_D06_07_118</b> (ČSN EN ISO 17892-11, chap. 5.2.2.3)	Soils
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> (ČSN 83 0530-14:2000)	Water
1.150 <sup>2)</sup>	Determination of graininess of solid samples by the combined method of suspension density, sieve analyses and laser diffraction and calculation of permeability from measured values according to USBSC	<b>CZ_SOP_D06_07_120</b> (ČSN EN ISO 17892-4, BS ISO 11277, instruct TOM 23/1)	Solid samples (grain size lower than 63 mm)
1.151 <sup>2)</sup>	Determination of total carbon, total sulphur and hydrogen by combustion method with IR detection, determination of total nitrogen by combustion method with TCD detection and determination of oxygen by calculation	<b>CZ_SOP_D06_07_121.A</b> (methodology of LECO Company, 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, feed, plants, digestates, solid fossil fuels, solid biofuels, solid recovered fuel, building materials, materials for building
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> (metodology LECO)	Oil, liquid fuels, combustible liquid wastes

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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> except chap. 10.2; 11.3.2; 11.5; 12.2.2; 15.5 (ČSN EN 16192, EPA 7199, 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> except chap. 10.1; 11.3.1; 12.2.1; 15.4 (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> (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> (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> (ČSN ISO 1928, ČSN EN ISO 18125, ČSN EN 15400, ČSN EN 15170, ČSN DIN 51900-1, ČSN DIN 51900-2, ČSN DIN 51900-3, ČSN P CEN/TS 16023)	Solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge, combustible building materials
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> (ČSN DIN 51900-1, ČSN DIN 51900-2, ČSN DIN 51900-3)	Oils, liquid fuels, combustible liquid wastes
1.159 <sup>2)1)</sup>	Determination of total bromine, chlorine, fluorine and sulphur by calculation from the measured values of bromide, chloride, fluoride and sulphate by IC method after burning the sample	<b>CZ_SOP_D06_07_124.C</b> (ČSN EN ISO 16994, ČSN EN 15408, ČSN EN 14582) determination of bromide, chloride, fluoride and sulphate by IC as per CZ_SOP_D06_02_068	Solid fossil fuels, solid biofuels, solid recovered fuels, waste, sludge, combustible building materials
1.160 <sup>2)1)</sup>	Determination of total bromine, chlorine, fluorine and sulphur by calculation from the measured values of bromide, chloride, fluoride and sulphate by IC method after burning the sample	<b>CZ_SOP_D06_07_124.D</b> (ČSN DIN 51900-1, ČSN DIN 51900-2, ČSN DIN 51900-3) determination of bromide, chloride, fluoride and sulphate 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> (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> (ČSN EN 13038, ČSN ISO 11265, ČSN P CEN/TS 15937)	Sludge, composts, soils, soils meliorants and growth stimulants, modified bio waste
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> (ISO 16740, EPA 425)	Emission, imission
1.164 <sup>1)</sup>	Determination of nitrogen dioxide and sulphur dioxide in passive samplers by ion chromatography method and results recalculation to the volume of air	<b>CZ_SOP_D06_02_128</b> (materials of Institute Fondazione Salvatore Maugeri, ČSN EN ISO 10304-1, ČSN EN ISO 10304-3)	Emission, imission
1.165 <sup>1)</sup>	Determination of sulphite by ion chromatography method	<b>CZ_SOP_D06_02_129</b> (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<sup>2</sup></b>	<b>Tested object</b>
1.166 <sup>2)</sup>	Determination of volatile matter by gravimetry	<b>CZ_SOP_D06_07_130</b> (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> ( <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> (ÖNORM S 2027-4)	Wastes, sludge, composts, soils
1.169* 1)2)5)6)7)8)9)	Field determination of ozone using HACH sets	<b>CZ_SOP_D06_01_133</b> (Method 8311 HACH Company, USA)	Drinking water, pool water
1.170 <sup>1)</sup>	Determination of fluoride, chloride and sulphate in absorption solution from emission sample by ion chromatographic method and determination of hydrogen fluoride, hydrogen chloride and sulphur dioxide by calculation from measured values	<b>CZ_SOP_D06_02_134</b> (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> except chap. 10.2 (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> except chap. 10.1 (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> (ČSN EN 481, ČSN EN 482+A1, ČSN EN 689+AC, NIOSH 0500, NIOSH 0600, GR č. 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> (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> (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> (ČSN 72 0118)	Solid samples
1.177	Reserved		
1.178* 1)5)6)9)	Determination of CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> S by Geotech Company gas analyser and determination of N <sub>2</sub> by calculation from measured values	<b>CZ_SOP_D06_01_141</b> (BIOGAS 5000 analyser manual)	Gases
1.179* 1)5)6)9)	Determination of humidity by analyser of gas humidity	<b>CZ_SOP_D06_01_142</b> (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> except chap. 10 a 13.1 (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> (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> (ČSN EN 15440)	Solid alternative fuels, solid combustible wastes

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**Tests: ORGANIC CHEMISTRY**

<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></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> (ČSN EN 14039, ČSN EN ISO 16703, ČSN P CEN ISO 16558-2, US EPA 8015, 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> (ČSN EN ISO 9377-2, 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> except chap. 9.1 (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> except chap. 9.2 (TNRCC Method 1006, TNRCC Method 1005)	Solid samples
2.5 <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> (NIOSH <sup>1)</sup> )	Solid sorbent
2.6 <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> (US EPA TO-17, ČSN EN ISO 16017-1, ČSN P CEN/TS 13649)	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> except chap. 10.5, 10.6 (US EPA 624, US EPA 8260, US EPA 8015, ČSN EN ISO 10301, MADEP 2004, rev. 1.1, ČSN ISO 11423, ČSN EN 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> except chap. 10.4 (US EPA 8260, US EPA 5021A, US EPA 5021, US EPA 8015, ČSN EN ISO 22155, ČSN EN ISO 15009, ČSN EN ISO 16558-1, MADEP 2004, rev. 1.1)	Solid samples



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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
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> except chap. 11.3 - 11.5 (US EPA 601, US EPA 8260, US EPA 8015, RBCA Petroleum Hydrocarbon Methods, ČSN EN ISO 11423, ČSN EN 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> except chap. 11.1, 11.2 (US EPA 8260, US EPA 8015, ČSN EN ISO 22155, ČSN EN ISO 15009, ČSN EN ISO 16558-1, RBCA Petroleum Hydrocarbon Methods)	Solid samples
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> except chap. 9.2 (SPIMFAB)	Water, extracts
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> except chap. 9.1 (SPIMFAB)	Waste (solid waste, biowaste), sediments, soil, rocks
2.13 <sup>1)</sup>	Determination of phenols, chlorinated phenols and cresols <sup>6)</sup> by gas chromatography method with detection MS and calculation of phenols, chlorinated phenols and cresols sums from measured values	<b>CZ_SOP_D06_03_158</b> except chap. 9.3, 9.4 (US EPA 8041, US EPA 3500, 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 calculation of phenols, chlorinated phenols and cresols sums from measured values	<b>CZ_SOP_D06_03_158</b> except chap. 9.1, 9.2, 9.4 (US EPA 8041, US EPA 3500, DIN ISO 14154)	Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks
2.15	Reserved		
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> except chap. 9.2 a 9.3 (US EPA 8061A)	Water, extracts
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> except chap. 9.1 (US EPA 8061A, CPSC-CH-C1001-09.3)	Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks
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> except chap. 9.2 (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> except chap. 9.1 (US EPA 8041A, US EPA 3500)	Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks

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<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
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> (US EPA 8270D, US EPA 8082A, ČSN EN ISO 6468, US EPA 8000D, samples preparation as per CZ_SOP_D06_03_P01 chap. 9.1, 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> (US EPA 8270D, US EPA 8082A ČSN EN 15527, ISO 18287, ISO 10382, ČSN EN 15308, samples preparation as per CZ_SOP_D06_03_P01 chap. 9.2, 9.3, 9.4.2, US EPA 3546)	Building materials, materials for building, waste (solid waste, biowaste), sediments, soil, rocks
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> (US EPA 550)	Drinking water, table water, infant water
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> except chap. 9.1.2, 9.4.2 (US EPA 610, ČSN 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> except chap. 9.1.1, 9.4.1 (US EPA 610, US EPA 3550, ČSN EN 16181)	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
2.26 <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> (ISO 11338-2)	Emission, imission
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> (DIN 38407-3, 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>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> (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

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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> (European Standard BT WI CSS99040)	Sediments, soils, rocks
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> (ČSN EN 12766-1, ČSN EN 61619)	Oil hydrocarbons, used oils, insulating liquids
2.31 <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> (ČSN EN ISO 6468, US EPA 8081, DIN 38407-3, 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> (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	Reserved		
2.34	Reserved		
2.35 <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> (US EPA 23, US EPA 23A)	Emission
2.36 <sup>3)</sup>	Determination of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofuranes <sup>13)</sup> in imission by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values	<b>CZ_SOP_D06_06_171</b> (US EPA TO-9A)	Imission
2.37 <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> (JIS K 0311)	Emission, imission
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> except chap. 10.2.3.2-10.2.3.8, 10.2.4, 10.2.5 (US EPA 1668A ČSN EN 16190)	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> except chap. 10.2.3.1, 10.2.3.7, 10.2.3.8, 10.2.5 (US EPA 1668A, ČSN EN 16190)	Solid samples, building materials, materials for building

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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> except chap. 10.2.3.1-10.2.3.7, 10.2.4 (US EPA 1668A, ČSN EN 16190)	Biological matrices, vegetable materials, animal materials
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> except chap. 10.2.3.1-10.2.3.6 (US EPA 1668A, ČSN EN 16190)	SPMD, food, feed, biotic materials
2.42 <sup>3)</sup>	Determination of polychlorinated dibenzo-p-dioxins and dibenzofurans <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> (ČSN EN 1948-2, ČSN EN 1948-3)	Emission
2.43 <sup>3)</sup>	Determination of tetra- to octa-chlorinated dioxins and furans <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> except chap. 10.2.3.2-10.2.3.8, 10.2.4, 10.2.5 (US EPA 1613B, ČSN EN 16190)	Water
2.44 <sup>3)</sup>	Determination of tetra- to octa-chlorinated dioxins and furans <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> except chap. 10.2.3.1, 10.2.3.7, 10.2.3.8, 10.2.5 (US EPA 1613B, ČSN EN 16190)	Solid samples, building materials, materials for building
2.45 <sup>3)</sup>	Determination of tetra- to octa- chlorinated dioxins and furans <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> except chap. 10.2.3.1-10.2.3.7, 10.2.4 (US EPA 1613B, ČSN EN 16190)	Biological matrices, vegetable materials, animal materials
2.46 <sup>3)</sup>	Determination of tetra- to octa- chlorinated dioxins and furans <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> except chap. 10.2.3.1-10.2.3.6 (US EPA 1613B, ČSN EN 16190)	SPMD, food, feed, biotic materials
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> except chap. 10.2.3.2-10.2.3.7, 10.2.4, 10.2.5 (US EPA 8290A)	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> except chap. 10.2.3.1, 10.2.3.6, 10.2.5 (US EPA 8290A)	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> except chap. 10.2.3.1-10.2.3.6, 10.2.4 (US EPA 8290A)	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> except chap. 10.2.3.1-10.2.3.6 (US EPA 8290A)	Food, feed, biotic materials

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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
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> except chap. 10.2.3.2 - 10.2.3.8, 10.2.4, 10.2.5 (US EPA 1614)	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> except chap. 10.2.3.1, 10.2.3.7, 10.2.3.8, 10.2.5 (US EPA 1614, ČSN, EN 16377, ČSN EN ISO 22032)	Solid samples, building materials, materials for building
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> except chap. 10.2.3.1 - 10.2.3.7, 10.2.4, (US EPA 1614)	Biological matrices, vegetable materials, animal materials
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> except chap. 10.2.3.1 - 10.2.3.6, (US EPA 1614)	SPMD, food, feed, biotic materials
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> (ČSN EN ISO 18857-2)	Water, extracts
2.56 <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> (ČSN EN 1948-4, US EPA TO-4A)	Emission, imission, working environment
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> except chap. 10.3.3.1 - 10.3.3.6, 10.3.3.8 - 10.3.3.10, 10.3.5 (US EPA 429, ISO 11338, US EPA 3540)	Solid samples, building material, materials for building
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> except chap. 10.3.3.6 - 10.3.3.10, 10.3.4, 10.3.5 (US EPA 429, ISO 11338, US EPA TO-13A)	Emission, imission, working environment
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> except chap. 10.3.3.1 - 10.3.3.9, 10.3.4 (US EPA 429, STN EN 16619)	Biological matrices, vegetable materials, animal materials
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> except chap. 10.3.3.1 - 10.3.3.8 (US EPA 429, STN EN 16619)	SPMD, food, feed, biotic materials

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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
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> except chap. 10.3.3.1 - 10.3.3.7, 10.3.3.9, 10.3.3.10, 10.3.4, 10.3.5 (US EPA 429, ISO 11338, IP 346)	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> (US EPA 429, US EPA 1668, US EPA 3550)	Sediments, soils, rocks
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> (DIN 38407-35)	Water
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> (ČSN EN 15637, US EPA 1694)	Sediments, sludges, soils, rocks
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> (US EPA 535, US EPA 1694)	Water
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> (ČSN EN 15637, US EPA 1694)	Sediments, sludges, soils, rocks
2.67 <sup>1)</sup>	Determination of pesticides, pesticide metabolites, drug residues and other pollutants <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> (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> (US EPA 8141B, US EPA 3535A, ČSN EN 12918)	Water
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.A</b> (ČSN ISO 21458)	Water

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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
2.70. <sup>1)</sup>	Determination of pesticides and pesticide metabolites <sup>32A)</sup> by derivation and liquid chromatography method with MS/MS detection	<b>CZ_SOP_D06_03_185.B</b> (Improvements in the analytical methodology for the residue determination of the herbicide glyphosate in soils by liquid chromatography coupled to mass spectrometry – J. Chrom. A, 1292 (2013) 132-141, Commission Decision 2002/657/EC)	Sediments, sludge, soils, rocks
2.71. <sup>1)</sup>	Determination of complexing substances <sup>33)</sup> by gas chromatography method with MS detection	<b>CZ_SOP_D06_03_186</b> (ČSN EN ISO 16588)	Water
2.72. <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> (Determination of oxygenated polycyclic aromatic hydrocarbons in particulate matter using high-performance liquid chromatography–tandem mass spectrometry; J. Chrom. A, 1133 (2006) 241–247)	Emission, imission
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.A</b> (Lumex manual, Kudrjashova, M.: Capillary electrophoretic monitoring of microbial growth: determination of organic acids, COPYRIGHT 2004 Estonian Academy Publishers, June 2004 Source Volume: 53 Source Issue: 2, ISSN: 1406-0124)	Water, liquid samples
2.74. <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> (Lumex manual, Kudrjashova, M.: Capillary electrophoretic monitoring of microbial growth: determination of organic acids, COPYRIGHT 2004 Estonian Academy Publishers, June 2004 Source Volume: 53 Source Issue: 2, ISSN: 1406-0124)	Feed, composts, digestate
2.75. <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> (EPA Method RSK-175)	Water, liquid samples
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> (US EPA 5021, US EPA 8260)	Water
2.77. <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> (US EPA 5021, US EPA 8260)	Solid samples
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.A</b> (ČSN EN ISO 12010)	Water
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</b> (ČSN EN ISO 12010, ČSN EN ISO 18635)	Building materials, materials for building, sediments, soils

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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
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> (US EPA 8270)	Sediments, sludges, soils, rocks
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> (2002/657/ES, 96/23/ES)	Water
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> (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> (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> (US EPA 537, ČSN P CEN/TS 15968)	Water, extracts
2.85 <sup>1)</sup>	Determination of per fluorinated and brominated compounds <sup>58A)</sup> by liquid chromatography with MS/MS detection	<b>CZ_SOP_D06_03_197.B</b> (DIN 38414-14)	Sediments, sludges, soils, rocks
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> (ČSN EN ISO 11890-2)	Solid samples
2.87 <sup>3)</sup>	Determination of fat by gravimetry	<b>CZ_SOP_D06_06_199</b> (US EPA 1613)	Food, feed, biological material
2.88 <sup>1)</sup>	Determination of 3-chloro-1,2-propanediol by gas chromatography method with MS detection	<b>CZ_SOP_D06_03_200</b> (LMBG 52.02(1))	Spices
2.89 <sup>1)</sup>	Determination of drug residues and narcotic and psychotropic substances <sup>61)</sup> by liquid chromatography method with MS / MS detection	<b>CZ_SOP_D06_03_201.A</b> (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> (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**

<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
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> (ČSN EN ISO 12966-1, ČSN EN ISO 12966-2)	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> Prof. Ing. Jiří David, MD. et al, Laboratory Manual of Food Analysis, J.-Chromatogr.-A.;24 Jun 1994; 672(1-2): 267-272, Determination of sterol content in different food samples by capillary gas chromatography	Fatty 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> (ČSN EN 128 23-1, 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) by liquid chromatography method with PDA detection	<b>CZ_SOP_D06_04_207</b> (ČSN EN 14130:2004)	Beverages, candy, non-fatty food, dietary supplements, fruit, vegetables
3.5 <sup>1)</sup>	Determination of soya protein by ELISA method – Ridascreen FAST Soya commercial kit	<b>CZ_SOP_D06_04_208</b> (manual R-Biopharm)	Food, swabs
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> (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> (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> (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> (ČSN EN 14123)	Food with low water content, beverages, 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> (ČSN EN 15829, ČSN EN 14133, ČSN EN 14132)	Food with low water content, beverages, dietary supplements, feed
3.11 <sup>1)</sup>	Determination of zearalenone by liquid chromatography method with FLD detection	<b>CZ_SOP_D06_04_214</b> (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> (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> (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> (ČSN EN 15791, ČSN EN 15891)	Food with low water content, beverages, dietary supplements, feed

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<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
3.15 <sup>1)</sup>	Determination of vitamins B <sub>1</sub> , B <sub>2</sub> a B <sub>6</sub> by liquid chromatography method with FLD detection	<b>CZ_SOP_D06_04_218</b> (ČSN EN 14122, ČSN EN 14152, ČSN EN 14663)	Fats, fatty food, non-fatty food, feed, dietary supplements
3.16 <sup>1)</sup>	Determination of folic acid by ELISA method – commercial set Ridascreen Folic Acid	<b>CZ_SOP_D06_04_219</b> (R-Biopharm Manual)	Food, feed, dietary supplements
3.17 <sup>1)</sup>	Determination of biotin by ELISA method – commercial set Demeditec	<b>CZ_SOP_D06_04_220</b> (Demeditec manual)	Milk, milk products, cereals and cereal products, non-alcoholic beverages, baby food, feed, dietary supplements
3.18 <sup>1)</sup>	Determination of gliadin (gluten) by sandwich enzyme immunoassay ELISA Method – commercial set RIDASCREEN®Gliadin	<b>CZ_SOP_D06_04_221.A</b> (manual R-Biopharm)	Fatty food, non-fatty food, dietary supplements, swabs
3.19 <sup>1)</sup>	Determination of gliadine (gluten) by competitive immunoassay ELISA Method – commercial set RIDASCREEN®Gliadin	<b>CZ_SOP_D06_04_221.B</b> (manual R-Biopharm)	Fermented and hydrolyzed foods and beverages
3.20 <sup>1)</sup>	Determination of casein by ELISA Method – commercial set Ridascreen Fast Casein	<b>CZ_SOP_D06_04_222</b> (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_D06_04_223</b> (ČSN EN 12630)	Food, feed, dietary supplements
3.22 <sup>1)</sup>	Reserved		
3.23 <sup>1)</sup>	Determination of niacin by liquid chromatography method with PDA detection	<b>CZ_SOP_D06_04_225</b> (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> (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> (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> (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> (AN-1069 Thermo – Application list)	Fats, fatty food, non-fatty food, dietary supplements, feed, premixes
3.28 <sup>1)</sup>	Determination of Vitamin B12 by ELISA method – commercial set RIDASCREEN®FAST	<b>CZ_SOP_D06_04_230</b> (R-Biopharm Manual)	Food, feed, dietary supplements
3.29 <sup>1)</sup>	Determination of fat-soluble vitamins (vitamins A, E) by liquid chromatography method with FLD detection	<b>CZ_SOP_D06_04_231</b> (ČSN EN 128 23-1, ČSN EN 128 22)	Cosmetics masks
3.30 <sup>1)</sup>	Determination of water-soluble vitamins (vitamin C) by liquid chromatography method with PDA detection	<b>CZ_SOP_D06_04_232</b> (ČSN EN 14130:2004)	Cosmetics masks
3.31 <sup>1)</sup>	Determination of almond allergen by ELISA method – commercial kit Bio-Check	<b>CZ_SOP_D06_04_233</b> (Bio-Check Manual)	Food, dietary supplements, swabs
3.32 <sup>1)</sup>	Determination of hazelnut allergen by ELISA method – commercial kit Bio-Check	<b>CZ_SOP_D06_04_234</b> (Bio-Check Manual)	Food, dietary supplements, swabs

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**Tests: MICROBIOLOGY OF WATER**

<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
4.1 <sup>1)</sup>	Enumeration of mesophilic bacteria by cultivation	ČSN 75 7841	Surface, ground, waste, pool water
4.2 <sup>1)</sup>	Enumeration of psychrophilic bacteria by cultivation	ČSN 75 7842	Surface, ground, waste, pool water
4.3 <sup>1)</sup>	Enumeration of intestinal enterococci by membrane filtration	ČSN EN ISO 7899-2 STN EN ISO 7899-2	Drinking, bottled, pool, raw, treated, ground, surface, waste water
4.4 <sup>1)</sup>	Enumeration of culturable microorganisms a) at 22 °C b) at 36 °C by cultivation	ČSN EN ISO 6222 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 STN EN ISO 9308-1	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 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 (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 (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	ČSN EN ISO 11731	Water, treated water
4.15 <sup>1)</sup>	Detection and enumeration of <i>Legionella</i> by cultivation	ČSN EN ISO 11731	Sediments, growths
4.16 <sup>1)</sup>	Detection and enumeration of <i>Legionella</i> by cultivation	ČSN EN 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 (ČSN EN ISO 13959, ČSN EN ISO 23500)	Dialysis water

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4.20 <sup>1)</sup>	Microbiological testing of dialysis fluid for haemodialysis. Enumeration of viable microorganisms	<b>CZ_SOP_D06_04_267</b> (ČSN EN ISO 11663, ČSN EN ISO 23500)	Dialysis fluid
4.21 <sup>1)</sup>	Determination of the concentration of bacterial endotoxins by the LAL test: the turbidimetric kinetic method	<b>CZ_SOP_D06_04_268</b> (Ph.Eur. chapter 2.6.14)	Dialysis water, dialysis fluid, water purified, water highly purified, water for injection
4.22 <sup>1)</sup>	Determination of the total number of micro-organisms	<b>CZ_SOP_D06_04_269</b> (Ph.Eur chapter 6.3:0008, 6.3:1927, 6.3:0169)	Water purified, water highly purified, water for injection
4.23 <sup>1)</sup>	Test for specific micro-organisms – Detection of <i>Pseudomonas Aeruginosa</i> bacteria	<b>CZ_SOP_D06_04_270</b> (Ph.Eur chapter 6.3:0008, 6.3:1927, 6.3:0169)	Water purified, water highly purified, water for injection

**Tests: MICROBIOLOGY**

<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
5.1 <sup>1)</sup>	Enumeration of microorganisms by cultivation	<b>ČSN EN ISO 4833</b>	Food, feed
5.2 <sup>1)</sup>	Enumeration of coliform bacteria by cultivation	<b>ČSN ISO 4832</b>	Food, feed
5.3 <sup>1)</sup>	Enumeration of enterococci by cultivation	<b>CZ_SOP_D06_04_302</b> (CSN 56 0100:1994)	Food, feed
5.4 <sup>1)</sup>	Enumeration of <i>Bacillus cereus</i> by cultivation	<b>ČSN EN ISO 7932</b>	Food, feed
5.5 <sup>1)</sup>	Enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) by cultivation	<b>ČSN EN ISO 6888-1</b>	Food, feed
5.6 <sup>1)</sup>	Enumeration of <i>Clostridium perfringens</i> by cultivation	<b>ČSN EN ISO 7937</b>	Food, feed
5.7 <sup>1)</sup>	Detection of <i>Salmonella</i> by cultivation	<b>ČSN EN ISO 6579-1</b>	Food, feed
5.8 <sup>1)</sup>	Detection of <i>Salmonella</i> by cultivation	<b>CZ_SOP_D06_04_307</b> except chap. 9.1.2 (ČSN EN ISO 6579, AHM No. 1/2008)	Sludge, bio waste, compost, substrates, soils
5.9 <sup>1)</sup>	Detection of <i>Salmonella</i> by cultivation	<b>CZ_SOP_D06_04_307</b> except chap. 9.1.1 (ČSN EN ISO 6579, AHM No. 1/2008)	Biological matrices
5.10 <sup>1)</sup>	Determination of inhibiting substances by Delvotest method	<b>CZ_SOP_D06_04_308</b> (O.K. Servis BioPro Manual)	Milk
5.11 <sup>1)</sup>	Detection of <i>Salmonella</i> by ELISA method - commercial set Solus Salmonella	<b>CZ-SOP-D06_04_309</b> (Solus Manual)	Food, feed
5.12 <sup>1)</sup>	Enumeration of yeasts and moulds by cultivation	<b>ČSN ISO 21527-1,2</b>	Food, feed
5.13 <sup>1)</sup>	Detection of <i>Enterobacteriaceae</i> by cultivation	<b>ČSN ISO 21528-1</b>	Food, feed
5.14 <sup>1)</sup>	Enumeration of spore-forming microorganisms by cultivation	<b>CZ_SOP_D06_04_312</b> (ČSN 56 0100:1994, Article 87)	Food, feed
5.15 <sup>1)</sup>	Detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio species</i> by cultivation	<b>ČSN EN ISO 21872-1, 2</b>	Food, feed

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<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
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, ČSN EN ISO 11290-2	Food, feed
5.23 <sup>1)</sup>	Enumeration of potentially toxicogenic moulds on special media by cultivation	CZ_SOP_D06_04_321 (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 (ČSN 56 0100:1994, article 149, 150 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 (ČSN 56 0100:1994, p.145)	Areas, surface, packaging material, surface of food
5.26 <sup>1)</sup>	Enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by cultivation	CZ_SOP_D06_04_324 (AHEM No. 1/2008, ČSN ISO 16649-2)	Sludge, bio waste, compost, substrates, soils, sand
5.27 <sup>1)</sup>	Enumeration of enterococci by cultivation	CZ_SOP_D06_04_325 (AHEM No. 1/2008, ČSN EN ISO 7899-2)	Sludge, bio waste, compost, substrates, soils, sand
5.28 <sup>1)</sup>	Detection of <i>Listeria</i> by ELISA method - commercial set Solus Listeria	CZ-SOP-D06_04_326 (manual Solus)	Food, feed
5.29 <sup>1)</sup>	Reserved		
5.30 <sup>1)</sup>	Reserved		
5.31 <sup>1)</sup>	Detection of <i>Cronobacter (Enterobacter) sakazakii</i> by cultivation	ČSN EN ISO 22964	Milk and milk products
5.32 <sup>1)</sup>	Detection and enumeration of aerobic mesophilic bacteria by cultivation	ČSN EN ISO 21149	Cosmetics
5.33 <sup>1)</sup>	Detection of <i>Pseudomonas aeruginosa</i> by cultivation	ČSN EN ISO 22717 ČSN EN ISO 18415	Cosmetics
5.34 <sup>1)</sup>	Detection of <i>Staphylococcus aureus</i> by cultivation	ČSN EN ISO 22718 ČSN EN ISO 18415	Cosmetics
5.35 <sup>1)</sup>	Detection of <i>Candida albicans</i> by cultivation	ČSN EN ISO 18416 ČSN EN ISO 18415	Cosmetics
5.36 <sup>1)</sup>	Detection of <i>Escherichia coli</i> by cultivation	ČSN EN ISO 21150 ČSN EN ISO 18415	Cosmetics
5.37 <sup>1)</sup>	Enumeration of yeast and mould by cultivation	ČSN EN ISO 16212	Cosmetics
5.38 <sup>1)</sup>	Evaluation of antimicrobial protection of cosmetic product, test of conservation effectiveness	CZ_SOP_D06_04_336 (ČSN EN ISO 11930, Ph.Eur. chapter 5.1.3)	Cosmetics
5.39 <sup>1)</sup>	Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> - Technique of most probable number	ČSN ISO 7251, expected Art. 9.2	Food, feed

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5.40 <sup>1)</sup>	Microbiological testing of non-sterile products – Determination of the number of micro-organisms	<b>CZ_SOP_D06_04_338</b> (Ph.Eur. chapter 2.6.12)	Pharmaceutical products, intermediates, raw materials, veterinary medicines, biopreparations, dietary supplements
5.41 <sup>1)</sup>	Microbiological testing of non-sterile products – Tests for specific micro-organisms	<b>CZ_SOP_D06_04_339</b> (Ph.Eur. chapter 2.6.13)	Pharmaceutical products, intermediates, raw materials, veterinary medicines, biopreparations, dietary supplements

**Tests: ECOTOXICOLOGY**

<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
6.1 <sup>2)</sup>	Determination of the acute lethal toxicity of substance to a freshwater fish	<b>CZ_SOP_D06_07_350</b> (ČSN EN ISO 7346-1, ČSN EN ISO 7346-2, STN 83 8303)	Surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents
6.2 <sup>2)</sup>	Determination of the inhibition of the mobility of <i>Daphnia magna</i> Straus - Acute toxicity test	<b>CZ_SOP_D06_07_351</b> (ČSN EN ISO 6341, STN 83 8303)	Surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents
6.3 <sup>2)</sup>	Freshwater algal growth inhibition test	<b>CZ_SOP_D06_07_352</b> (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> (Ministry of Environment Bulletin, Volume XVII, Part 4/2007, p. 13-14; Waste Department Guidance for the determination of waste ecotoxicity, Annex 1 "Test on the seeds of white mustard ( <i>Sinapis alba</i> )", STN 83 8303)	Surface, 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> (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> (ČSN EN ISO 11267)	Waste, soils, sediments

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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
6.7 <sup>2)</sup>	<i>Enchytraeus crypticus</i> reproduction test – determination of the inhibition	<b>CZ_SOP_D06_07_356</b> (ČSN EN 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> (ČSN EN 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> (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> (F. Zucchini 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> (ČSN EN ISO 20079)	Surface, underground and waste water, extracts of waste, solutions and extracts of chemical substances and agents

**Tests: RADIOLOGY**

<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
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> (ČSN 75 7612, ČSN EN ISO 9697, Recommendation of SÚJB „Measurement and assessment of the content of natural radionuclides in drinking water from public sources and bottled water”, DR-RO-5.1 (Rev. 0.0), Prague 2017)	Water, extracts
7.4 <sup>2)</sup>	Determination of radium 226 after concentration by scintillation emanometry	<b>ČSN 75 7622</b>	Water, extracts
7.5 <sup>2)</sup>	Determination of radon 222 by scintillation emanometry after its transportation into scintillation chamber using under-pressure	<b>CZ_SOP_D06_07_363.A</b> (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	<b>CZ_SOP_D06_07_363.B</b> (ČSN 75 7624 chapter 6)	Water, extracts
7.7 <sup>2)</sup>	Determination of radon 222 by liquid scintillation counting method (LSC)	<b>CZ_SOP_D06_07_363.C</b> (ČSN 75 7625)	Water

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<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
7.8 <sup>2)</sup>	Determination of uranium by spectrophotometry after separation on silica gel and calculation of <sup>238</sup> U from measured values	<b>CZ_SOP_D06_07_364</b> (ČSN 75 7614)	Water, extracts
7.9 <sup>2)</sup>	Determination of tritium volume activity by liquid scintillation counting method (LSC)	<b>ČSN EN ISO 9698</b>	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	<b>ČSN 75 7626</b>	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	<b>CZ_SOP_D06_07_366</b> (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 and ACI by calculation from the measured volumetric activities of individual radionuclides	<b>CZ_SOP_D06_07_367</b> (ČSN EN ISO 10703, SÚJB Recommendation "Measurement and evaluation of natural radionuclides in building materials", DR-RO-5.2 (Rev. 0.0), Prague 2017)	Solid samples with granularity up to 4 mm, food, water, liquid samples
7.13 <sup>2)</sup>	Determination of gross alpha mass activity by direct measurement of the sample by means of alpha radiation analyser	<b>CZ_SOP_D06_07_368</b> (ČSN 75 7611, 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 analyser	<b>CZ_SOP_D06_07_369</b> (ČSN 75 7612, ČSN EN 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 analyser	<b>CZ_SOP_D06_07_370</b> (ČSN 75 7627)	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	<b>CZ_SOP_D06_07_371</b> (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	<b>CZ_SOP_D06_07_372</b> (Recommendation of SÚJB „Measurement and assessment of the content of natural radionuclides in drinking water from public sources and bottled water”, DR-RO-5.1 (Rev. 0.0), Prague 2017, Council Directive 2013/51 / EURATOM of 22. 10. 2013)	Water
7.18 <sup>2)</sup>	Determination of strontium 90 by proportional detector after separation	<b>CZ_SOP_D06_07_373</b> (ASTM D5811-00)	Water
7.19 <sup>2)</sup>	Determination of strontium 90 by proportional detector after separation	<b>CZ_SOP_D06_07_373</b> (ASTM D5811-00, ASTM C1507-12)	Soils, sludge, sediments
7.20 <sup>2)</sup>	Determination of strontium 90 by proportional detector after separation	<b>CZ_SOP_D06_07_373</b> (ASTM D5811-00, ASTM C1507-12)	Biological material, food, feed



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7.21 <sup>2)</sup>	Determination of carbon 14 by liquid scintillation method after separation	<b>CZ_SOP_D06_07_374</b> (ČSN EN ISO 13162, ČSN EN 16640 US EPA 520/5-84-006)	Water, soils, sludge, sediments, bio indicators, food
7.22 <sup>2)</sup>	Determination of total volume alpha and beta activities by liquid scintillation counting method (LSC)	<b>CZ_SOP_D06_07_375</b> (ČSN EN ISO 11704, ASTM D7283-17)	Non salted water

**Tests: TRIBOLOGY**

<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
8.1 <sup>11)</sup>	Determination of kinematic viscosity by viscometer and viscosity index by calculation	<b>CZ_SOP_D06_05_400</b> (ČSN EN ISO 3104, ČSN ISO 2909)	Liquid fuels, lubricating oils
8.2 <sup>11)</sup>	Determination of flash point - Pensky-Martens closed cup method by flash point analyser	<b>CZ_SOP_D06_05_401</b> (ČSN EN ISO 2719)	Liquid petroleum products
8.3 <sup>11)</sup>	Determination of liquid cleanliness code by particle counter	<b>CZ_SOP_D06_05_402</b> (User Manual for Lase Net Fines-C use and maintenance, ČSN ISO 4406)	Liquid fuels, lubricating oils
8.4 <sup>11)</sup>	Determination of base number by potentiometric titration	<b>CZ_SOP_D06_05_403</b> (ČSN ISO 3771)	Lubricating oils, additives to lubricants
8.5 <sup>11)</sup>	Determination of neutralization number by potentiometric titration	<b>CZ_SOP_D06_05_404</b> (ČSN ISO 6619)	Lubricating oils, additives to lubricants
8.6 <sup>11)</sup>	Determination of water content by Coulometric method	<b>CZ_SOP_D06_05_405</b> (ASTM D 6304, ČSN EN ISO 12937)	Liquid fuels, lubricating oils
8.7 <sup>11)</sup>	Determination of flash point-Cleveland opened-cup method by flash point analyser	<b>CZ_SOP_D06_05_406</b> (ČSN EN ISO 2592)	Liquid fuels, lubricating oils

**Tests: GENERAL CHEMISTRY OF FOOD**

<b>Ordinal number<sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification<sup>2</sup></b>	<b>Tested object</b>
9.1 <sup>1)</sup>	Determination of organic acids <sup>68)</sup> content by capillary isotachopheresis method	<b>CZ_SOP_D06_04_450</b> (Recman – Laboratory technique – Application lists No. 35, 39, 70)	Food, feed
9.2 <sup>1)</sup>	Gravimetric determination of fat	<b>CZ_SOP_D06_04_451</b> (ČSN ISO 1443, ČSN ISO 1444) 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> (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> (ITP: Application sheet No. 33 VILLA LABECO s.r.o.)	Food, feed

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9.5 <sup>1)</sup>	Determination of phosphates by capillary isotachopheresis	<b>CZ_SOP_D06_04_454</b> (ITP: Application sheet No. 35 VILLA LABECO s.r.o.)	Food, feed
9.6 <sup>1)</sup>	Gravimetric determination of water extract content	<b>ČSN 58 0113 Article 38</b>	Coffee
9.7 <sup>1)</sup>	Determination of acid value and acidity by titration	<b>CZ_SOP_D06_456</b> (ČSN EN ISO 660)	Animal and vegetable fats and oils
9.8	Reserved		
9.9 <sup>1)</sup>	Gravimetric determination of ash	<b>CZ_SOP_D06_04_458</b> (ČSN 56 0116-4)	Food, feed
9.10 <sup>1)</sup>	Determination of crude fibre by oxidation hydrolysis method	<b>CZ_SOP_D06_04_459</b> (ČSN ISO 5498)	Feed
9.11 <sup>1)</sup>	Determination of pH in biological material by potentiometry	<b>CZ_SOP_D06_04_460</b> (ČSN ISO 2917, ČSN ISO 1842)	Food, feed
9.12 <sup>1)</sup>	Determination of sand in biological material by gravimetry	<b>CZ_SOP_D06_04_461</b> (ČSN 56 0246-12)	Food, feed
9.13 <sup>1)</sup>	Determination of relative density of liquids by pycnometer	<b>CZ_SOP_D06_04_462</b> (ČSN EN 1131)	Low viscosity liquids
9.14 <sup>1)</sup>	Titrimetric determination of acidity	<b>CZ_SOP_D06_04_463</b> (ČSN ISO 750, ČSN 56 0116, ČSN 57 0553)	Fruit juices, water-soluble food, dairy products, bakery products
9.15 <sup>1)</sup>	Determination of moisture content – distillation method	<b>CZ_SOP_D06_04_464</b> (ČSN ISO 939)	Spices, mixed condiments
9.16 <sup>1)</sup>	Determination of dietary fibre enzymatically by commercial set Megazym	<b>CZ_SOP_D06_04_465</b> (AOAC Method 985.29)	Food, dietary supplements
9.17 <sup>1)</sup>	Determination of starch content by polarimetry	<b>CZ_SOP_D06_04_466</b> (ČSN 46 70 92-21)	Cereals, baking products, cereal feeds
9.18 <sup>1)</sup>	Determination of chloride by coulometric titration	<b>CZ_SOP_D06_04_467</b> (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	<b>CZ_SOP_D06_04_468</b> (ČSN 56 01 46)	Food, feed, dietary supplements
9.20 <sup>1)</sup>	Determination of alkalinity of water-soluble ash by titration	<b>ČSN ISO 1578</b>	Tea
9.21 <sup>1)</sup>	Gravimetric determination of total ash	<b>ČSN ISO 1575</b>	Tea
9.22 <sup>1)</sup>	Gravimetric determination of water-soluble and water-insoluble ash	<b>ČSN ISO 1576</b>	Tea
9.23 <sup>1)</sup>	Gravimetric determination of acid-insoluble ash	<b>ČSN ISO 1577</b>	Tea
9.24 <sup>1)</sup>	Gravimetric determination of water extract	<b>ČSN ISO 9768</b>	Tea
9.25 <sup>1)</sup>	Gravimetric determination of loss in mass at 103°C	<b>ČSN ISO 1573</b>	Tea
9.26 <sup>1)</sup>	Determination of total nitrogen by Dumas method by analyser and protein calculation from measured values	<b>CZ_SOP_D06_04_475</b> (ČSN EN ISO 14891, ČSN EN ISO 16634-1, ČSN EN ISO 16634-2)	Food, feed, dietary supplements
9.27 <sup>1)</sup>	Volumetric determination of volatile oils (essential oils) by distillation with steam	<b>ČSN EN ISO 6571</b>	Spices, spicing agents, herbs

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<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
9.28 <sup>1)</sup>	Determination of the weight of consumer packaging of food and animal feeding stuff products by gravimetry	<b>CZ_SOP_D06_04_477</b> (ČSN 560305, ČSN 570146-3, 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>	<b>CZ_SOP_D06_04_478</b> (Commission Directive no. 2001/101/EC, Commission Regulation no. 2004/2002/EC, Commission Regulation no. 2429/86/EEC, Decree 330/2009 Coll.)	Meat products
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> (Regulation (EU) 1169/2011, Decree 330/2009 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> (ISO 3496)	Meat products
9.33 <sup>1)</sup>	Determination of fat content by NMR method	<b>CZ_SOP_D06_04_482</b> (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>CZ_SOP_D06_04_483</b> (ČSN EN ISO 3960)	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> (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> (Davídek J., Laboratory manual of Food Analysis, 1981)	Food
9.38 <sup>1)</sup>	Determination of piperine content by spectrophotometry	<b>ČSN ISO 5564</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> (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> (Prof.Ing.J. Davídek, 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> (Prof.Ing.J. Davídek, 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> (ČSN ISO 6658, ČSN EN ISO 8589, ČSN EN ISO 13299, ČSN ISO 13300-1,2)	Food, cosmetics, packaging materials for food, article of common use

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<b>Ordinal number <sup>1</sup></b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>2</sup></b>	<b>Tested object</b>
9.43 <sup>10)</sup>	Sensory testing – comparison to standard	<b>CZ_SOP_D06_04_491</b> (ČSN ISO 6658, ČSN EN ISO 8589, ČSN EN ISO 13299, ČSN ISO 13300-1,2)	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> (ČSN EN ISO 8589, ČSN EN ISO 13299, ČSN ISO 13300-1,2)	Food
9.45 <sup>1)</sup>	Determination of density by density meter	<b>CZ_SOP_D06_04_493</b> (ČSN 57 0530)	Milk and milk products
9.46 <sup>1)</sup>	Determination of sugars <sup>69)</sup> by ion chromatography method with EC detection	<b>CZ_SOP_D06_04_494</b> (ČSN EN 12630)	Food, feed, dietary supplement

<sup>1</sup> Asterisk\* at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

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

**Used abbreviations**

ACI	Activity Concentration Index
AHEM	Acta hygienica, epidemiologica et microbiologica
AITM	Airbus Company methods
Animal materials	Insects
BDE	Brominated Diphenyl Ethers
BFR	Brominated flammable retarders
Building materials	Materials from building (broken material, recycled, destroyed construction materials)
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	Deutscher Institut fuer Normung
DM 06/09/94 GU n° 288 10/12/1994 All. 1 Met. B.	Decree of 6.9.1994 (Decreto Ministeriale 6 settembre 1994, Italy), published in Builetin No. 288 10/12/1994
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 are prepared according to standards ČSN EN 12457-2, ČSN EN 12457-3, ČSN EN 12457-4, ČSN EN 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
Fermented and hydrolyzed foods and beverages	E.g. beer, starch and starch products, soy sauces, malt extracts, kneaded dough
FID	Flame ionization detector
FLD	Fluorescent detector
Gases	Biogas stations gases, landfill gases
GR	Government Regulation

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HRGC/HRMS	High-resolution gas chromatography with high-resolution mass detector
I	Mass activity index
ID	Indicative dose
Imission	Filters, solid sorption matrices
IP	International Petroleum test methods
IR	Infra-red detector
ISE	Ion selective electrode
ISO	International Organization for Standardization
ITP	Isotachophoresis
LDN	Labor Diagnostika Nord GmbH & Co.KG
Liquid samples	Industrial liquids, technological liquids and technological baths
LSC	Liquid Scintillation Counting method for determination of radionuclides emitting alfa or beta radiation
Materials for building	New or unused materials for building and raw materials for their production
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
PBB	Polybrominated biphenyls
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
SEM/EDS	Scanning Electron Microscope / Energy Dispersive Spectrometer
SFS	The Finnish Standard Association – The central organization for standardization in Finland
SM	Standard Methods – USA standard methods for drinking and waste water analyses prepared and issued by American Public Health Association, American Water Works Association a Water Environmental Federation, 21 <sup>st</sup> edition
Solid samples	Waste (solid, liquid, biowaste), sediments, sludge, technological sludge products, soils, rocks
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 imissions
SS	Svensk Standard – Swedish Standard
STN	Slovak Technical Standard
SÚJB	State Nuclear Safety Institute
Sum of Ca+Mg	Water hardness
TCD	Thermal conductivity detector
TEQ	Toxic equivalent
TFA	Trans fatty acids

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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
USBSC	Empirical formula for the calculation of permeability of mixed materials, coefficient of permeability was determined from granulometry analysis
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, warm, bathing, raw, ground, surface, waste, sea water
Working environment	Filters, solid sorbents, tubes

**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-Dichloropropane, 1.3.5-Trichlorobenzene, 1.3.5-Trimethylbenzene, 1.3-Dichlorobenzene, 1.3-Dichloropropane, 1.4-Dichlorobenzene, 1.4-Dioxane, 1-Chloronaphthalene, 2,2-Dichloropropane, 2-Butanol, 2-Butanone, 2-Butoxyethyl Acetate, 2-Ethylhexanol, 2-Ethyltoluene, 2-Chlorotoluene, 2-Methylhexane, 2-Methyl-1-Butanol, 2-Propanol, 3-Ethyltoluene, 3-Carene, 4-Ethyltoluene, 4-Phenylcyclohexene, 4-Chlorotoluene, 4-Isopropyltoluene, Acetone, alpha-Pinene, alpha-Terpinene, Benzene, beta-Pinene, Bromobenzene, Bromodichloromethane, Bromochloromethane, Bromomethane, Bromoform, cis-1.2-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, Acrylonitrile, Benzene, Bromomethane, cis-1.2-Dichloroethene, Cyclohexane, Dichloromethane, Ethanol, Ethylbenzene, Hexachlorobutadiene, Chlorobenzene, Chloroethane, Chloromethane, Chloroform, Isooctane, Isopropylbenzene, Methylcyclohexane, Methyl Isobutyl Ketone, m-Xylene, naphthalene, 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 ethyl ketone, Methyl isobutyl ketone, 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, TAEE, TBA, tert-Amyl Methyl Ether, tert-Butanol, tert-Butyl Acetate, tert-Butylbenzene, Tetraethyl lead, Tetrachloroethene, Tetrachloromethane, Toluene, total VOC, trans-1.2-Dichloroethene, trans-1.3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride, Aliphates >C5-C6, Aliphates >C6-C8, Aromatics C6-C7, Aromatics >C7-C8, Aromatics >C8-C10, Aromatics >C5-C9, Aromatics >C9-C10, Fraction >C5-C10, Sums calculation according to CZ\_SOP\_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-buthylether), 1,2-dichloroethane, 1,2-dibromomethane, aliphates >C10-C12, aliphates >C12-C16, aliphates >C16-C35, 1-ethyl-3-methylbenzene, 1-ethyl-4-methylbenzene, 1-ethyl-2-methylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, 1,3-diethylbenzene, 1,4-diethylbenzene, 1,2-diethylbenzene, 1,2,4,5-tetramethylbenzene, naphthalene, 2-methylnaphthalene, 1-methylnaphthalene, biphenyl, 2+1-ethylnaphthalene, 1,7-dimethylnaphthalene, 2,6-dimethylnaphthalene, 1,4+2,3-dimethylnaphthalene, acenaphthylene, 1,8-dimethylnaphthalene, acenaphthene, 2,3,5-trimethylnaphthalene, fluorine, phenanthrene,

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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-naftole, 2-naftole, 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), butylbenzylphthalate, 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(e)pyrene, benzo-(g,h,i)-perylene, benzo-(k)-fluoranthene, biphenyl, dibenzo-(a,h)-anthracene, diphenyl ether, phenanthrene, fluoranthene, fluorine, chrysene, indenopyrene, naphthalene, pyrene, perylene, hexachlorobutadiene, hexachloroethane, aldrin, o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT, dieldrin,  $\alpha$ -endosulphane,  $\beta$ -endosulphane, endrin, telodrin, isodrin, heptachlor, cis-heptachloroepoxide, trans-heptachloroepoxide,  $\alpha$ -HCH,  $\beta$ -HCH,  $\gamma$ -HCH,  $\delta$ -HCH, alachlor, methoxychlor, pentachlorobenzene, hexachlorobenzene, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, trifluraline, PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, PCB 194, dichlobenil,  $\epsilon$ -HCH, octachlorstyrene, di-n-butylphthalate, bis(2-ethylhexyl) phthalate (DEHP), endosulfan-sulphate, mirex, cis-chlordane, trans-chlordane, oxychlordane, cis-nonachlor, trans-nonachlor, PBB 153, pentachlorotoluene, benzyl alcohol, acetophenone, 6-caprolactam, isophorone, aniline, diphenylamine, 4-chloroaniline, benzidine, 4-bromophenyl phenyl ether, carbazole, biphenyl, 2-chloronaphthalene, 1-chloronaphthalene, 2-methylnaphthalene, 4-chlorophenyl phenyl ether, dibenzofuran, bis(2-chloroethyl)ether, bis(2-chloroethoxy)methane, bis(2-chloroisopropyl)ether (all isomers), phenol, 2-methylphenol, 3-methylphenol, 3-&4-methylphenol, 4-methylphenol, 2,4-dimethylphenol, 4-chloro-3-methylphenol, hexachlorocyclopentadiene, nitrobenzene, 2-nitrophenol, 4-nitrophenol, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, 2-nitroaniline, 3-nitroaniline, 4-nitroaniline, N-nitrosodimethylamine, N-nitrosodi-n-propylamine, dinoseb, dimethyl phthalate, diethyl phthalate, benzyl butyl phthalate, bis(2-ethylhexyl) phthalate, di-n-octyl phthalate, 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-tetrachlorbenzen, 1,2,3,5-tetrachlorbenzen, 1,2,4,5-tetrachlorbenzen, 2,4'-DDD (TDE), 2,4'-DDE, 2,4'-DDT, 4,4'-DDD (TDE), 4,4'-DDE, 4,4'-DDT, alachlor, aldrin, bis(2-ethylhexyl)ftalát (DEHP), cis-heptachlorperoxid, cis-chlordan, cis-nonachlor, dieldrin, dichlobenil, dicofol, endosulfan-sulfát, endrin, heptachlor, hexabrombifenyl (PBB 153), hexachlorbenzen, hexachlorbutadien, hexachlorethan, isodrin, methoxychlor, mirex, oktachlorstyren, oxychlordan, pentachloraniline, pentachlorobenzen, quintozene, telodrin (isobenzan), toxafen, trans-heptachlorperoxid, trans-chlordan, trans-nonachlor, trifluralin,  $\alpha$ -endosulphan,  $\alpha$ -HCH,  $\beta$ -endosulphan,  $\beta$ -HCH,  $\gamma$ -HCH (Lindan),  $\delta$ -HCH,  $\epsilon$ -HCH, výpočet sum dle 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, octa-BDE 203, deca-BDE 209, PBB3, PBB15, PBB18, PBB52, PBB101, PBB153, PBB180, PBB194, PBB206, PBB209 and sums calculation according to CZ\_SOP\_D06\_06\_J02

**Alkylphenols, alkylphenoethoxylates<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

**Terpenes<sup>17)</sup>** – menthol, eucalyptol

**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, cis-13,16-docosadienoic, cis-5,8,11,14,17-eicosapentaenoic, cis-4,7,10,13,16,19-docosahexaenoic, elaidic

**Pesticides<sup>19)</sup>** – allethrin, anilazine, azinphos-ethyl, azinphos-methyl, benalaxyl, bifenthrin, bromacil, bromophos-ethyl, bromophos-methyl, bromopropylate, buprofezin, cadusafos, captafol, captan, carbaryl, carbophenothion, coumaphos, cypermethrin-alpha, cypermethrin-beta, cyprodinil, diazinon, diclofop-methyl, dicloran, dicofol, dichlobenil, dichlofenthion, dichlofluamid, dichlorvos, dimethachlor, dimethoate, dinobuton, dioxathion, disulfoton, ditalimfos, endosulfansulfat, epoxiconazole, ethion, ethoprophos, etrimfos, fenamiphos, fenazaquin, fenchlorphos, fenitrothion, fenpropathrin, fenson, fensulfthion, fenthion, fenvalerate, fludioxonil, flusilazole, folpet, fonofos, formothion, heptenophos, hexaconazole, chlornane-cis, chlornane-trans, chlorfenson, chlorfenvinphos, chlorothalonil, chlorpropham, chlorpyrifos, chlorpyrifos-, chlozolinate, imazalil, iodofenphos, iprodione, isofenphos, malaaxon, malathion, mecarbam, mepronil, metalaxyl, methacrifos, methidathion, methiocarb, metribuzin, mevinphos-cis, mevinphos-trans, mirex, myclobutanil, napropamide, nitrothal-isopropyl, nuarimol, ofurace, oxadixyl, oxyfluorfen, paraoxon-ethyl, paraoxon-methyl, parathion, parathion-methyl, penconazole, pendimethalin, pentachloranisol, pentachloroaniline, permethrin, phenthoate, phorate, phosalone, phosmet, phosphamidon, piperonylbutoxide, pirimiphos-ethyl, pirimiphos-methyl, procymidone, profenofos, propachlor, propargite, propiconazole, propylamide, prothiophos, pyrazophos, pyridaben, pyrifenox, pyrimethanil, pyriproxyfen, quinalphos, quintozene,

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sulfallate, sulfotep, tebuconazole, tebufenpyrad, tecnazene, terbacil, terbufos, tetradifon, tetrachlorvinphos, tetramethrin, tetrasul, tolclofos-methyl, tolylfluanid, triadimefon, triazophos, vinclozolin

**Organochlorine pesticides**<sup>20)</sup> -  $\alpha$ -HCH,  $\beta$ -HCH,  $\gamma$ -HCH,  $\delta$ -HCH, chlorobenzene, p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-DDD

**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

**Radionuklidy**<sup>25)</sup> - Radionuclides emitting gamma rays in the energy interval 46,5 - 1836 keV - Natural Radionuclides <sup>40</sup>K, <sup>210</sup>Pb, <sup>222</sup>Rn(<sup>226</sup>Ra), <sup>223</sup>Ra(<sup>227</sup>Ac), <sup>224</sup>Ra, <sup>226</sup>Ra, <sup>228</sup>Ra(<sup>232</sup>Th), <sup>227</sup>Th (<sup>227</sup>Ac), <sup>228</sup>Th, <sup>230</sup>Th, <sup>234</sup>Th (<sup>238</sup>U), <sup>231</sup>Pa, <sup>235</sup>U; Artificial Radionuclides <sup>7</sup>Be, <sup>54</sup>Mn, <sup>57</sup>Co, <sup>60</sup>Co, <sup>65</sup>Zn, <sup>88</sup>Y, <sup>99m</sup>Tc, <sup>109</sup>Cd, <sup>131</sup>I, <sup>133</sup>Ba, <sup>134</sup>Cs, <sup>137</sup>Cs, <sup>152</sup>Eu, <sup>192</sup>Ir, <sup>241</sup>Am

**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, hexachlorbenzene, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Alkylphenols, alkylphenoethoxylates**<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> - 2,3,6-trichlorbenzoic acid, 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,4-DP (isomers), 3,5,6-trichloro-2-pyridinol, 4-CPP, acifluorfen, aminopyralide, benazolin, bentazone, bromodichloroacetic acid, bromochloroacetic acid, bromoxynil, caffeine, clopyralid, dibromoacetic acid, dibromochloroacetic acid, dichloroacetic acid, dicamba, dichlorprop-P<sub>2</sub>, diclofenac, diclofop, dinoseb, dinoterb, DNOC, fluroxypyr, ibuprofen, ioxynil, MCPA, MCPB, MCPP, MCPP (isomers), mecoprop-P, metribuzin-desamino, metribuzin-desamino diketo, monobromoacetic acid, monochloroacetic acid, paraxanthine, picloram, propoxycarbazone-sodium, salicylic acid, tribromoacetic acid, trichloroacetic acid, 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, triclosan sums calculation according to CZ\_SOP\_D06\_03\_J02

**Pesticides, pesticide metabolites, drug residues and other pollutants**<sup>30)</sup> - 1,2,4-triazole, 1-(3,4-dichlorfenyl) urea (DCPU), 17- $\alpha$ -ethinylestradiol, 17- $\beta$ -estradiol, 1H-benzotriazole, 1-methyl-1H-benzotriazole, 2-aminobenzothiazole, 2-amino-4-methoxy-6-methyl-1,3,5-triazine, 2-amino-N-(isopropyl)benzamide, 2-chlor-2,6-diethylacetanilide, 2-hydroxybenzothiazole, 2-isopropyl-6-methyl-4-pyrimidinol, 2-methylbenzothiazole, 2-methylmercaptobenzothiazole, 3,4-dichloraniline (DCA), 3,5,6-trichloropyridin-2-ol, 3-chloro-4-methylaniline, 5-methyl-1H-benzotriazole, 6-chloronicotinic acid, acetamiprid, acetochlor, acetochlor ESA, acetochlor OA, acibenzolar-S-methyl, acionifen, 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, brodifacoum, bromacil, bromadiolone bromophos-ethyl, bromoxynil, buprofezin, cadusafos, carbamazepine, carbaryl, carbenazim, carbetamide, carbofuran, carbofuran (sum), carbofuran-3-hydroxy, carboxin, carfentrazone-ethyl, chlorantraniliprole, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlormequat, chlorotoluron, chlortoluron-desmethyl, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chloresulfuron, clodinafop, clodinafop propargyl, clofentazine, clomazone, clomeprop, clothianidin, coumafos, crimidine, cyanazin, cybutrine (irgarol), cyflufenamid, , cymoxanil, cypermethrin, cyphenothrin, cyprazine, cyproconazole, cyprodinil, cyromazine, DEET, deltamethrin (isomers), desmedipham, desmetyrn, diazinon, dichlofenthion, dichlorimid, dichlorvos, dicrotophos, diethofencarb, difenoconazole, difenoxuron, diflubenzuron, diflufenican, diquat, dimefuron, dimethachlor, dimetachlor CGA 369873, dimethachlor ESA, dimethachlor OA, dimethenamid, dimethenamid ESA, dimethenamid OA, dimethylaminosulfanilide, dimethoate, dimetomorf, dimoxystrobin, diuron, diuron desmethyl (DCPMU), epoxiconazole, EPTC, estriol, estron, ethiofencarb, ethion, ethofumesate, ethoprophos, ethoxazole, famoxadone, famphur, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenarimol, fenhexamid, fenothiocarb, fenoxaprop, fenoxycarb, fenpropathrin, fenpropidin, fenpropimorph, fensulfthion, fenuron, fipronil, fipronil sulfone, florasulam, fluaizifop, fluaizifop-butyl, fluaizifop-butyl (isomers), fluaizifop-P, fluaizifop-p-butyl, fludioxonil, flufenacet, flufenacet ESA, flufenacet OA, fluopyram, fluquinconazole, flusilazol, flutolanil, flutriafol, 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, iodosulfuron-methyl, iprodione, iprovalicarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, isopyrazam, isoxaflutole, isoxaflutole diketonitrile, kresoxim-methyl, lambda-cyhalothrin, lenacil, linuron, malaoxon, malathion, mandipropamid, MCPA, MCPP (isomers), mecarbam, mephenpyr-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, metobromuron, metolachlor, metolachlor (isomers), metolachlor (S), metolachlor CGA 368208, metolachlor ESA, metolachlor NOA 413173, metolachlor OA, metoxuron, metrafenone, metribuzin, metribuzin-desamino, metribuzin-desamino diketo, metribuzin-diketo, 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, pethoxamid ESA, phenmedipham, phenothrin, phorate, phosalone, phosmet, phosmet-oxon, phosphamidon, picloram, picoxystrobin, pirimicarb, pirimiphos-ethyl, pirimiphos-methyl, p-isopropylaniline, pretilachlor, primisulfuron-methyl, prochloraz, prodiamine, profenofos, promecarb, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propanil, propaquizafop, propazine, propazine-2-hydroxy, propham, propiconazole, propoxur, propoxycarbazone-sodium, propylen thiourea, propylamide, prosulfocarb, prothioconazole, pyraclostrobin, pyribenzoxim, pyridaben, pyrimethanil, pyriproxyfen, quinalphos, quinclorac, quinmerac, quinoxifen, quizalofop, quizalofop-p-ethyl, rimsulfuron, sebutylazine, secbumeton, sedaxane, sethoxydim, simazine, simazine-2-hydroxy, simazine-desethyl, simetryn, spinosad (spinosyn A + spinosyn D), spiroxamine, sulfamethoxazole, sulfosulfuron, tau-fluvalinate, tebufenpyrad, tebuconazole, tebuthiuron, teflubenzuron, tefluthrin, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, tetramethrin, thiabendazole, thiacloprid, thiametoxam, thiazafururon, thidiazuron, thifensulfuron-methyl, thioencarb, thiofanate-methyl, tolclofos-methyl, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl,



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tricyclazole, trietazine, trifloxystrobin, trifloxysulfuron sodium, triflumizole, triflumuron, triflusulfuron-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, carbendazim, carbofuran, carbofuran-3-hydroxy, chlorfenvinphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl-desphenyl, chlormequat, chlorotoluron, chlorpyrifos, chlorsulfuron, clomazone, clothianidin, cyanazine, cyhalothrin (isomers), cypermethrin (isomers), cyproconazole, deltamethrin (isomers), desmethyl, diazinon, dichlorvos, dicotophos, difenacoum, diflufenican, dimethoate, dimoxystrobin, diquat, diuron, epoxiconazole, fenoxycarb, fipronil, fipronil sulfone, fluzafop, fonofos, hexazinone, imidacloprid, imidacloprid olefin, imidacloprid urea, indoxacarb, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, kresoxim-methyl, linuron, malaaxon, malathion, mepiquat, metamitron, metazachlor, metconazole, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methomyl-oxime, metolachlor (isomers), metribuzin, oxamyl, paraquat, pendimethalin, permethrin (isomers), pethoxamid, phorate, phosalone, phosmet, phosmet-oxon, phosphamidon, pirimicarb, prochloraz, prometon, prometryn, propazin, propiconazole, propoxur, pyrimethanil, sebutylazine, simazine, simazine-2-hydroxy, simetryn, tau-fluvalinate, tebuconazole, terbuthylazin, terbuthylazin-desethyl, terbuthylazine-desethyl-2-hydroxy, 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, dicotophos, 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>** – 2,4'-dichlorobenzophenone, 2,6-dichloroaniline, 4,4'-dichlorobenzophenone, azinphosmethyl, benfluralin, benoxacor, benzoylprop-ethyl, bromocyclen, bromophos-ethyl, bromopropylate, butachlor, butamifos, butralin, captan, carbophenothion, carbophenothion-methyl, cis-chlordane, crotoxyphos, cyanofenphos, cyanophos, cypermethrin, demeton, demeton-S-methyl, diallate (isomers), diazinon, diclobutrazol, dichlorvos, dichlorvos & trichlorfon, dimethipin, dimethoate, dinitramine, disulfoton, edifenphos, EPN, etaconazole (isomers), ethalfuralin, ethiofencarb-sulfone, ethion, ethofenprox, etridiazole, etrimfos, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenazaquin, fenchlorphos, fenchlorphos-oxon, fenitrothion, fenthion, fenvalerate (RR-/SS-isomers), flamprop-isopropyl, flamprop-methyl, fluchloralin, flupicolid, fluorodifen, flutrimazole, fluquinconazole, flurenol-butyl, flurochloridone, genite, halfenprox, heptenophos, chlordecon, chlorfenapyr, chlorfenvinphos, chlormephos, chlorobenzilate, chloroneb, chloropropylate, chlorpyrifos, chlorpyrifos-methyl, chlorthiophos, iodofenphos, iprobenphos, isazofos, isocarbophos, isofenphos, isofenphos-methyl, isomethiozin, isopropalin, isoxadifen-ethyl, leptophos, malathion, mephosfolan, merphos, methacrifos, metrafenone, mevinphos (isomers), monocrotophos, musk ketone, musk xylene, myclobutanil, nitrapyrin, nitrothal-isopropyl, norflurazon, parathion-ethyl, parathion-methyl, pentachloroaniline, pentachloroanisole, pentachlorothioanisole, perthane, phenkapton, phorate, phosfolan, phosmet, picolinafen, piperonyl butoxid, piperophos, pirimiphos-ethyl, plifenate, procymidone, propetamphos, prothiofos, prothoate, pyraclofos, pyrazophos, pyridaphenthion, quinalphos, S,S,S-tributyl phosphotriothioate, spiromesifen, sulfotep, sulprofos, tebupirimfos, tecnazene, tefluthrin, telodrin (isobenzan), temephos, terbufos, tetrachlorvinphos, tetrasul, thiometon, thionazin, tolylfluand, trans-chlordane, triamiphos, tridiphane, trichloronate, vinclozolin, 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

**Pesticides and their metabolites MS detection<sup>32A)</sup>** – AMPA, glyphosate

**Complexing substances<sup>33)</sup>** - EDTA, PDTA a 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-eicoseinic (C20:1), erudic (C22:1n9), nervonic (C24:1), PUFA - linoleic (C18:2n6c), linoleic (C18:3n6), y-linoleic (C18:3n3), cis-11,14-eicosadienoic (C20:2), cis-8,11,14-eicosatrienoic (C20:3n6), cis-11,14,17-eicosatrienoic (C20:3n3), arachidonic (C20:4n6), cis-13,16-docosadienoic (C22:2), cis-5,8,11,14,18-eikosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), TFA - elaidic (C18:1n9t), linolelaidic (C18:2n6t), C18:3 trans isomery, Omega 3 - linoleic (C18:3n3), cis-11,14,17-eicosatrienoic (C20:3n3), cis-5,8,11,14,18-eicosapentaenoic (C20:5n3), cis-4,7,10,13,16,19-docosahexaenoic (C22:6n3), Omega 6 - lineoleic (C18:2n6c), y-linoleic (C18:3n6), cis-8,11,14-eicosatrienoic (C20:3n6), arachidonic (C20:4n6), cis-11,14,eicosadienoic (C20:2), cis-13,16-dokosadienoic (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, 9H-fluoren-9-one, 2-fluorene-carboxaldehyde, 1-naphthalene-carboxaldehyde, 5,12-naphthacenedione, 1-nitronaphthalene, 5-nitroacenaphthene, 9-nitroanthracene, nitropyrene, nitrofluoranthene, 6-nitrobenzo(a)pyrene, 2-nitrofluorene, 9,10-phenanthrenequinone, phenanthridine

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

**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, Hg, Ho, I, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr

**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, Si, Sn, Sr, Ta, 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

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**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 (loužitelý vodou), Ca, Cd, Co, Cr, Cr(VI), Cu, Fe, I (loužitelý vodou), 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 a 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 a 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> a SiO<sub>2</sub>, according to CZ\_SOP\_D06\_02\_J06

**Stoichiometric calculation**<sup>52)</sup> - ion form Cr<sup>3+</sup>, compound PO<sub>4</sub><sup>3-</sup>, according to CZ\_SOP\_D06\_02\_J06

**Stoichiometric calculation**<sup>53)</sup> - compound NaCl according to CZ\_SOP\_D06\_02\_J06

**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 (PFTrDA), Perfluorotetradecanoic acid (PFTeDA), Perfluorohexadecanoic acid (PFHxDA), Perfluorooctadecanoic acid (PFOcDA), Perfluorobutane sulfonic acid (PFBS), Perfluoropentane sulfonic acid (PFPeS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorononane sulfonic acid (PFNS), Perfluorodecane sulfonic acid (PFDS), Perfluorododecane sulfonic acid (PFDoDS), 4:2 Fluorotelomer sulfonate (4:2 FTS), 6:2 Fluorotelomer sulfonate (6:2 FTS), 8:2 Fluorotelomer sulfonate (8:2 FTS), 10:2 Fluorotelomer sulfonate (10:2 FTS), Perfluorooctane sulfonamide (FOSA), N-Methyl perfluorooctane sulfonamide (MeFOSA), N-Ethyl perfluorooctane sulfonamide (EtFOSA), Perfluorooctane sulfonamidoacetic acid (FOSAA), N-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA), N-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA), 7H-perfluoroheptanoic acid (HPFHpA), Perfluoro-3,7-dimethyloctanoic acid (P37DMOA), N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE), N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE), Hexabromocyclododecane (HBCD), Tertabromobisphenol-A (TBBP-A), PFCs Total Oxidizable Precursors (TOP)

**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 (PFTrDA), Perfluorotetradecanoic acid (PFTeDA), Perfluorohexadecanoic acid (PFHxDA), Perfluorooctadecanoic acid (PFOcDA), Perfluorobutane sulfonic acid (PFBS), Perfluoropentane sulfonic acid (PFPeS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorononane sulfonic acid (PFNS), Perfluorodecane sulfonic acid (PFDS), Perfluorododecane sulfonic acid (PFDoDS), 4:2 Fluorotelomer sulfonate (4:2 FTS), 6:2 Fluorotelomer sulfonate (6:2 FTS), 8:2 Fluorotelomer sulfonate (8:2 FTS), 10:2 Fluorotelomer sulfonate (10:2 FTS), Perfluorooctane sulfonamide (FOSA), N-Methyl perfluorooctane sulfonamide (MeFOSA), N-Ethyl perfluorooctane sulfonamide (EtFOSA), Perfluorooctane sulfonamidoacetic acid (FOSAA), N-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA), N-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA), 7H-perfluoroheptanoic acid (HPFHpA), Perfluoro-3,7-dimethyloctanoic acid (P37DMOA), N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE), N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE), 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 (leachable with water) Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hg, Ho, I (leachable with water) 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, 6-acetylmorphine (6-MAM), alprazolam, amphetamine, anastrozole, atenolol, azathioprine, benzoylcegonine, bezafibrate, bromazepam, buprenorphine, buprenorphine glucuronide, butorphanol, caffeine, capecitabine, carbamazepine, clofibrate acid, cyclobenzaprine, cyclophosphamide, ciprofloxacin, cyproteron acetate, citalopram, clonazepam, coca ethylene, cocaine, codeine, diazepam, diclofenac, EDDP (metabolite of methadone), ephedrine, enalapril, estriol, estrone, fentanyl, fluoxetine, flutamide, fluticasone propionate, furosemide, gabapentin, gemfibrozil, heroin, hydrochlorothiazide, hydromorphone, chloramphenicol, chlordiazeponide, ibuprofen, ifosfamide, indomethacin, iohexol, iomeprol, iopamidol, iopromide, ketamine, ketoprofen, lincomycin, loperamide, LSD, LSD hydroxy, MBDB (N-metyl-1-(1,3-benzodioxol-5-yl)-2-butamin), MDA (3,4 - methylenedioxyamphetamine), MDEA (3,4-methylenedioxy-N-ethyl amphetamine), MDMA (3,4 - methylenedioxyamphetamin), medroxyprogesterone acetate, megestrol acetate, methadone, methamphetamine, metoprolol, metronidazole, midazolam, morphine, mycophenolate mofetil, naproxen, norbuprenorphine, norbuprenorphine glucuronide, oxazepam, paclitaxel, paracetamol (acetaminophen), piroxicam, propranolol, salbutamol, sertraline, sotalol, sulfamethazine, sulfamethoxazole, terbutaline, tetrazepam, THC (delta-9-tetrahydrocannabinol), THC glucuronide, THC hydroxy, THCA-A (delta9-tetrahydrocannabinol-2-carboxylic), THC-COOH (11-Nor-9-carboxy-THC), thebaine, tramadol, triamcinolone acetonide, trimethoprim, valsartan, warfarin, zolpidem

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

**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, hydroxyproline 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 ray spectrometry (CZ\_SOP\_D06\_07\_367), Lead 210 (CZ\_SOP\_D06\_07\_370), Strontium 90 (CZ\_SOP\_D06\_07\_373) and Carbon 14 (CZ\_SOP\_D06\_07\_374)

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

**Organic acids<sup>68)</sup>** – Propionic acid, Citric acid, lactic acid, acetic acid, tartaric acid, malic acid

**Sugars<sup>69)</sup>** – glucose, fructose, lactose, maltose, sucrose, galactose and the sum of sugars by calculation

**Annex:  
Flexible range of accreditation**

Ordinal numbers of tests
1.1-1.12; 1.15-1.18; 1.,41; 1.44; 1.48; 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; 1.157; 1.159; 1.163-1.165; 1.178; 1.181
2.1–2.14; 2.16–2.32; 2.38-2.41; 2.43-2.46; 2.51-2.55; 2.57-2.86; 2.88-2.90
3.1–3.4; 3.6–3.15; 3.25; 3.27; 3.29-3.30
6.1–6.11
7.3; 7.12; 7.17
9.1; 9.37; 9.46

The laboratory can modify the appendix test methods in the field of accreditation, while maintaining the principle of measurement. In tests not included in Appendix; laboratory cannot apply a flexible approach to the scope of accreditation.

**SAMPLING:**

Ordinal number	Test procedure Method name	Test procedure Method identification <sup>1</sup>	Tested object
1 <sup>1)2)4)5)6)7)8)9)</sup>	Sampling of grab sample of surface water manually	<b>CZ_SOP_D06_01_V01</b> (ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN ISO 5667–4, ČSN EN ISO 5667–6, ČSN EN ISO 5667–14)	Surface water
2 <sup>1)2)4)5)6)7)8)9)</sup>	Sampling of grab sample of waste water manually	<b>CZ_SOP_D06_01_V02</b> (ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN ISO 5667–10, ČSN EN 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	<b>CZ_SOP_D06_01_V03</b> (ČSN EN ISO 5667–1, ČSN EN ISO 5667–3, ČSN ISO 5667–5, ČSN EN 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 water

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<b>Ordinal number</b>	<b>Test procedure Method name</b>	<b>Test procedure Method identification <sup>1</sup></b>	<b>Tested object</b>
4 <sup>1)2)4)5)6)7)8)9)</sup>	Sampling of mixed sample of waste water manually and using an automatic sampler	<b>CZ_SOP_D06_01_V04</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-10, ČSN EN ISO 5667-14)	Waste water
5 <sup>1)2)4)5)7)8)9)</sup>	Sampling of treated water manually	<b>CZ_SOP_D06_01_V05</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-5, ČSN ISO 5667-7, ČSN EN ISO 5667-14)	Treated water
6 <sup>1)2)4)5)6)7)8)9)</sup>	Sampling of water from artificial pool manually	<b>CZ_SOP_D06_01_V06</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-4, ČSN ISO 5667-5, ČSN EN ISO 5667-6, ČSN EN 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	<b>CZ_SOP_D06_01_V07</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-11, ČSN EN ISO 5667-14)	Ground water from boreholes and wells
8 <sup>1)2)4)5)6)7)8)9)</sup>	Sampling of surface swab manually	<b>CZ_SOP_D06_01_V08</b> (ČSN 56 0100:1994, ČSN EN ISO 18593, Regulation 289/2007 Sb., ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN 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	<b>CZ_SOP_D06_01_V09</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN EN 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	<b>CZ_SOP_D06_01_V10</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-12, ČSN EN 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	<b>CZ_SOP_D06_01_V11</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN EN ISO 5667-14, ČSN EN 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	<b>CZ_SOP_D06_01_V12</b> (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-13, ČSN EN ISO 5667-14, ČSN EN 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

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Ordinal number	Test procedure Method name	Test procedure Method identification <sup>1</sup>	Tested object
13 <sup>1)2)4)5)6)7)</sup>	Air sampling by personal pump	<b>CZ_SOP_D06_01_V13</b> (ČSN EN 481, ČSN EN 482+A1, ČSN EN 689+AC, GR No. 361/2007 Coll.)	Working environment
14	Reserved		
15 <sup>1)2)7)</sup>	Gas sampling for the determination of ammonia	<b>CZ_SOP_D069_01_V15</b> (ČSN 834728)	Gases
16 <sup>1)</sup>	Stationary air sampling for the determination of the number of asbestos and mineral fibers	<b>CZ_SOP_D06_01_V16</b> (ISO 14966, chap. 5; VDI 3492, chap. 5 a 6, ČSN EN ISO 16000-7; ČSN EN 482+A1, NV No. 361/2007, Sb. Annex No. 3)	Outdoor and indoor air, working environment
17 <sup>1)</sup>	Sampling for the asbestos determination	<b>CZ_SOP_D06_01_V17</b> (VDI 3866, part 1)	Materials for building, building materials

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

Tests identified by ordinal number:

- with index \* 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
- with index <sup>11)</sup> are carried out on the site in Prague, Kolbenova 942/38a, 190 00 Prague 9