



**EA MLA Signatory**  
**Český institut pro akreditaci, o.p.s.**  
**Olišanská 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. 519/2021**

**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, building materials, materials for building, emissions, immissions, working environment, gases from biogas stations and landfill gases, biological materials, food, feed, cosmetics, pharmaceutical raw materials and products, lubricants, fuels, ecotoxicological testing of waste and water, sensory analyses of food; sampling of water, sediments, soils, outdoor and indoor air 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.: 13/2021 of 4. 1. 2021, or any administrative acts building upon it.

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

Prague: 5. 10. 2021



  
**Lukáš Burda**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute  
Public Service Company

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

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

**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

**Contact and Sampling Points**

4	Brno	Vídeňská 134/102, 619 00 Brno
5	Ostrava	Vratimovská 11, 718 00 Ostrava
6	Plzeň	Lobezská 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	Kotojedská 2588/91, 767 01 Kroměříž
12	Liberec	Jugoslávská 11, 460 07 Liberec

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

*The laboratory is competent to perform sampling.*

**Tests: GENERAL CHEMISTRY**

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
1.1 <sup>1)</sup>	Determination of elements <sup>47</sup> by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values <sup>51</sup> including the calculation of total mineralization and calculating the sum of Ca+Mg	<b>CZ_SOP_D06_02_001</b> (US EPA 200.7, ČSN EN ISO 11885, 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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<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>
1.4 <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 calculation of Cr <sup>3+</sup> 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, immission
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 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 calculation of Cr <sup>3+</sup> 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, immission
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

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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)	Emission, immission,
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 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, 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
1.22 <sup>2)</sup>	Determination of total phosphorus and orthophosphate by spectrophotometry and calculation of P <sub>2</sub> O <sub>5</sub> from measured values	<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 calculation of P <sub>2</sub> O <sub>5</sub> from measured values	<b>CZ_SOP_D06_07_009.B</b> (ČSN EN 14672, ČSN EN ISO 6878)	Sludge, technological sludge products
1.24	Reserved		
1.25	Reserved		
1.26	Reserved		

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1.27	Reserved		
1.28	Reserved		
1.29 <sup>2)</sup>	Determination of nonionic surfactants (BiAS) by spectrophotometry using the HACH cuvette test	CZ_SOP_D06_07_014 (Hach Instruction)	Water, extracts
1.30 <sup>2)</sup>	Determination of the sum of sulfane and sulfide by spectrophotometry and calculation of free sulfane from measured values	<b>CZ_SOP_D06_07_015.A</b> (ČSN 83 0520:1978 č. 16, ČSN 83 0530:1980 č. 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 č. 16, ČSN 83 0530:1980 č. 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 č. 16, ČSN 83 0530:1980 č. 31, ČSN 83 4712 č. 3)	Absorption solutions from emission samples
1.33 <sup>1)</sup>	Determination of sulfate by turbidimetry using discrete spectrophotometry and calculation of sulfate sulfur 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	CZ_SOP_D06_02_018 (ISO 14966, except chap. 5, 6.1 and 6.2; VDI 3492, except chap. 5 a 6)	Outdoor and indoor air, working environment - exposed filters
1.36 <sup>1)</sup>	Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization	<b>CZ_SOP_D06_02_019</b> (ČSN EN ISO 11732, ČSN EN ISO 13395, 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 calculation of ammonia nitrogen, free ammonia and dissociated ammonium ions from measured values	<b>CZ_SOP_D06_07_020</b> (ČSN ISO 7150-1, ČSN EN ISO 21877)	Water, extracts, liquid samples, absorption solutions from emission samples
1.38 <sup>2)</sup>	Determination of nitrite nitrogen by spectrophotometry and calculation of nitrite from measured values	<b>CZ_SOP_D06_07_021</b> (ČSN EN 26777)	Water, extracts
1.39 <sup>1)</sup>	Determination of orthophosphate by discrete spectrophotometry and calculation of orthophosphate's phosphorus from measured values including the calculation of total mineralization	<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



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1.41 <sup>2)</sup>	Determination of chloride by potentiometric titration and calculation of NaCl 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 material, pharmaceutical material,
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)	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	Reserved		
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)3) 4)5)6)7)8)9)</sup>	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 humic substances by spectrophotometry	<b>CZ_SOP_D06_07_034</b> (ČSN 75 7536)	Drinking, raw, surface, ground 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)	Water, extracts
1.56 <sup>2)</sup>	Determination of pH electrochemically	<b>CZ_SOP_D06_07_037</b> (ČSN ISO 10523)	Water, extracts
1.57	Reserved		
1.58	Reserved		
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

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1.61 <sup>2)</sup>	Determination of analytical water and gross water by gravimetry and calculation of total water 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	Reserved		
1.63	Reserved		
1.64	Reserved		
1.65* 1)2)3)4)5)6)7)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 calculation of moisture from measured values	<b>CZ_SOP_D06_01_045</b> (ČSN ISO 11465, ČSN EN 12880, ČSN EN 14346:2007)	Solid samples
1.67 <sup>2)</sup>	Determination of dry matter by gravimetry and calculation of moisture from measured values	<b>CZ_SOP_D06_07_046</b> (ČSN ISO 11465, ČSN EN 12880, ČSN EN 14346:2007, ČSN 46 5735)	Solid samples
1.68 <sup>2)</sup>	Determination of ash by gravimetry and calculation of loss on ignition 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, silicate materials
1.69	Reserved		
1.70 <sup>2)</sup>	Determination of ash by gravimetry and calculation of loss on ignition 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, DM06/09/94 GU n° 288 10/12/1994 All. 1 Met. B – quantitative determination)	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. – qualitative determination)	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	Reserved		
1.75 <sup>2)</sup>	Determination of suspended solids, fixed suspended solids, total solids and fixed total solids by gravimetry and calculation of volatile suspended solids and volatile total solids from measured values	<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 calculation of volatile dissolved solids from measured values	<b>CZ_SOP_D06_07_054</b> (ČSN 75 7346, ČSN 75 7347)	Water, extracts

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1.78 <sup>2)</sup>	Determination of inorganic carbon (TIC) by coulometry and calculation of carbonate from measured values	<b>CZ_SOP_D06_07_055</b> (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, 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
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, STN 83 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)3)4)5)6)7) 8)9)12)	Field determination of free and total chlorine and chlorine dioxide by DPD method using HACH sets and bound chlorine by calculation from measured values	<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)3)4)5)6)7) 8)9)12)	Field measurement of temperature	<b>ČSN 75 7342</b>	Water
1.86* 1)2)3)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)3)4)5)6)7) 8)9)12)	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 :2005, 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, 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



**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
1.91 <sup>1)</sup>	Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization	<b>CZ_SOP_D06_02_068</b> (ČSN EN ISO 10304-1)	Water, extracts
1.92	Reserved		
1.93 <sup>1)</sup>	Determination of dry suspended solids and annealed suspend solids by gravimetry and calculation of loss of ignition of suspend solids and total solids from measured values	<b>CZ_SOP_D06_02_070</b> (ČSN EN 872, ČSN 757350, SM 2540 D, SM 2540 E)	Water, extracts
1.94 <sup>1)</sup>	Determination of dissolved solids (RL) and dissolved solid annealed (RAS) using glass fibre filters by gravimetry and calculation of loss on ignition of dissolved solids (RL550) from measured values	<b>CZ_SOP_D06_02_071</b> (ČSN 75 7346, ČSN 757347, 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 calculation of CO <sub>2</sub> forms 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 7027-1)	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)	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 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 calculation of phosphorus as P <sub>2</sub> O <sub>5</sub> and PO <sub>4</sub> <sup>3-</sup> 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 peroxisulphate	<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 calculation of hydrogen chloride from measured values	<b>CZ_SOP_D06_07_082</b> (ČSN EN 1911)	Absorption solutions from emission sampling

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
1.107 <sup>2)</sup>	Determination of fluoride in absorption solution from emission sample of inorganic compounds of fluorine after separation by distillation by direct potentiometry and calculation of hydrogen fluoride from measured values	<b>CZ_SOP_D06_07_083</b> (ČSN 83 4752, Part 3:1989)	Absorption solutions from emission sampling
1.108	Reserved		
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 solids 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 calculation of complex-forming cyanides 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 calculation of complex-forming cyanides 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 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	Determination of bound nitrogen (TNb), following oxidation to nitrogen oxides by chemiluminescent detection	<b>CZ_SOP_D06_02_094.A</b> (ČSN EN 12260)	Water, extracts
1.120 <sup>1)</sup>	Determination of bound nitrogen (TNb), following oxidation to nitrogen oxides by IR detection	<b>CZ_SOP_D06_02_094.B</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, samples prepared as per CZ_SOP_D06_02_J02 chap.10.1 a 10.2)	Water, extracts

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
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	Reserved		
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, immission
1.126	Reserved		
1.127	Reserved		
1.128 <sup>1)</sup>	Determination of dissolved bromate, chlorate and chlorite by ion liquid chromatography method and calculation of the sum of chlorate and chlorite 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 calculation of labile aluminium from measured values	<b>CZ_SOP_D06_07_101</b> (company method SKALAR)	Drinking, surface 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 * 1)2)3)4)5)6)7)8)9)	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, SM 4500-H <sup>+</sup> B)	Water, extracts
1.136	Reserved		
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 calculation of H <sub>2</sub> SiO <sub>3</sub> and total mineralization from measured values	<b>CZ_SOP_D06_02_109</b> (ČSN EN ISO 16264, US EPA 370.1)	Water, extracts
1.140 <sup>1)</sup>	Determination of Chlorophyll by spectrophotometry	<b>CZ_SOP_D06_02_110</b> (SM 10200 H)	Surface waters <sup>67)</sup>

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
1.141 <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	Reserved		
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	CZ_SOP_D06_07_118 (ČSN EN ISO 17892-11, Chap. 5.2.2.3)	Soil
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 the suspension density, sieve analyses and the laser diffraction and calculation of permeability from measured values according to USBSC	<b>CZ_SOP_D06_07_120</b> (ČSN EN ISO 17892-4, ČSN EN 933-1, ČSN EN 933-2, 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> (methodology LECO)	Oil, liquid fuels, combustible liquid and solid wastes
1.153 <sup>1)</sup>	Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and calculation of trivalent chromium from measured values	<b>CZ_SOP_D06_02_122</b> except chap. 10.2; 11.3.2; 11.5; 12.2.2; 15.5 (US EPA 7199, SM 3500-Cr)	Water, extracts

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
1.154 <sup>1)</sup>	Determination of hexavalent chromium by ion chromatography with spectrophotometric detection and calculation of trivalent chromium 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	Reserved		
1.156	Reserved		
1.157 <sup>2)</sup>	Determination of gross calorific value by calorimetric method and calculation of net calorific value and emission factor from measured values	<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 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 and solid 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 and solid 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 calculation of trivalent chromium from measured values	<b>CZ_SOP_D06_02_127</b> (ISO 16740, EPA 425)	Emission, immission
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, immission
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
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
1.168 <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)3)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 calculation of hydrogen fluoride, hydrogen chloride and sulphur dioxide 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, 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 č. 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 č. 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)2)5)	Determination of CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> S by Geotech Company gas analyzer and determination of N <sub>2</sub> by calculation from measured values	<b>CZ_SOP_D06_01_141</b> (BIOGAS 5000 analyzer manual)	Gases
1.179* <sup>1)</sup>	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 4752-3:1989)	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 4752-3:1989)	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



**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

**ALS Czech Republic, s.r.o.**  
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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/TS 16558-2, US EPA 8015, US EPA 3550, TNRCC Method 1006)	Solid samples
2.2 <sup>1)</sup>	Determination of extractable compounds in the range of hydrocarbons C10 – C40, their fractions calculated from the measured values by gas chromatography method with FID detection	<b>CZ_SOP_D06_03_151</b> (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>19</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> (CEN/TS 13649, NIOSH <sup>1)</sup> )	Solid sorbent
2.6 <sup>1)</sup>	Determination of volatile organic compounds <sup>20</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
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.10 <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 ECD 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 ECD 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
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.21 <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, immission
2.27 <sup>1)</sup>	Determination of polychlorinated biphenyls <sup>39</sup> -congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values	<b>CZ_SOP_D06_03_166</b> (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
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.31 <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	Determination of perchlorates by liquid chromatography with MS/MS detection	CZ_SOP_D06_03_170.A (US EPA 6850)	Drinking water
2.34	Determination of perchlorates by liquid chromatography with MS/MS detection	CZ_SOP_D06_03_170.B (US EPA 6850)	Sediments, sludges, soils, rocks
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 immission 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)	Immission
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, immission
2.38 <sup>3)</sup>	Determination of polychlorinated biphenyls <sup>14</sup> by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter from measured values	<b>CZ_SOP_D06_06_173</b> 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
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.42 <sup>3)</sup>	Determination of polychlorinated dibenzo-p-dioxins and dibenzofuranes <sup>13</sup> in emission samples by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values	<b>CZ_SOP_D06_06_174</b> (ČSN EN 1948-2, ČSN EN 1948-3)	Emission
2.43 <sup>3)</sup>	Determination of tetra- to octa-chlorinated dioxins and furanes <sup>13</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values	<b>CZ_SOP_D06_06_175</b> 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 furanes <sup>13</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values	<b>CZ_SOP_D06_06_175</b> 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 furanes <sup>13</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values	<b>CZ_SOP_D06_06_175</b> 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 furanes <sup>13</sup> by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values	<b>CZ_SOP_D06_06_175</b> 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
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.53 <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, immission, 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), ČSN EN 15549	Emission, immission, 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
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 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



**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

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

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
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>17</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>70</sup> <sup>a 71</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, building material, material for building
2.67 <sup>1)</sup>	Determination of pesticides, pesticide metabolites, drug residues and other pollutants <sup>72</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
2.70 <sup>1)</sup>	Determination of pesticides and pesticide metabolites <sup>46</sup> by derivatization and liquid chromatography method with MS/MS detection	<b>CZ_SOP_D06_03_185.B</b> (Journal of Chromatography A, 1292 (2013) 132-141, EC Decision No. 2002/657/ES)	Sediments, sludges, 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> (Journal of Chromatography A, 1133 (2006) 241-247)	Emission, immission

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.73 <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, physiological fluid
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> Except chap. 12.1, 13.1.1, 13.1.2, 14.1, 16.1 (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> Except chap. 12.2, 13.2.1, 13.2.2, 14.2, 16.2 (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
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 epichlorhydrine 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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
2.85 <sup>1)</sup>	Determination of per fluorinated and brominated compounds <sup>73</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)	Organic solvents
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
2.91 <sup>1)</sup>	Determination of polycyclic aromatic hydrocarbons <sup>74</sup> by gas chromatography with MS/MS detection, calculation of sums of polycyclic aromatic hydrocarbons from measured values and conversion of results to air volume	<b>CZ_SOP_D06_03_203</b> (ISO 11338-2, ČSN EN 15549)	Emissions, immissions

**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, Journal of Chromatography A.; 24 1994; 672 (1-2): 267-272,	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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
3.5 <sup>1)</sup>	Determination of Soya protein by ELISA commercial kit	<b>CZ_SOP_D06_04_208</b> (manual R-Biopharm – Ridascreen FAST Soya)	Food, swap
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
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 commercial kit	<b>CZ_SOP_D06_04_219</b> (R-Biopharm – Ridascreen Folic Acid 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 using ELISA commercial kit	<b>CZ_SOP_D06_04_221.A</b> (R-Biopharm – Ridascreen Gliadin manual)	Fatty food, non-fatty food, dietary supplements, swabs
3.19 <sup>1)</sup>	Determination of gliadine (gluten) by competitive immunoassay using ELISA commercial kit	<b>CZ_SOP_D06_04_221.B</b> (R-Biopharm – Ridascreen Gliadin manual)	Fermented and hydrolyzed foods and beverages

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ĀSN EN ISO/IEC 17025:2018:**

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

<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>
3.20 <sup>1)</sup>	Determination of allergen casein by ELISA ELISA commercial kit	<b>CZ_SOP_D06_04_222</b> (manuāl Bio-Check - Casein Check)	Food, dietary supplements, swabs
3.21	Reserved		
3.22 <sup>1)</sup>	Determination of mustard allergen by ELISA commercial kit	<b>CZ_SOP_D06_04_224</b> (Bio-Check – Mustard Check manual)	Food, dietary supplements, swabs
3.23 <sup>1)</sup>	Determination of niacin by liquid chromatography method with PDA detection	<b>CZ_SOP_D06_04_225</b> (ĀSN EN 15652)	Fatty food, non-fatty food, feed, dietary supplements
3.24 <sup>1)</sup>	Determination of soy protein by ELISA commercial kit	<b>CZ_SOP_D06_04_226</b> (Biokits Neogen – Soya assay Biokits 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 commercial kit	<b>CZ_SOP_D06_04_228</b> (Bio-Check – Peanut Check manual)	Fatty food, non-fatty food, dietary supplements, swabs
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 commercial kit	<b>CZ_SOP_D06_04_230</b> (R-Biopharm – Ridascreen Fast Vitamin B12 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> (ĀSN EN 128 23-1, ĀSN 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> (ĀSN EN 14130:2004)	Cosmetics masks
3.31 <sup>1)</sup>	Determination of almond allergen by ELISA commercial kit	<b>CZ_SOP_D06_04_233</b> (Bio-Check – Almonde Check manual)	Food, dietary supplements, swabs
3.32 <sup>1)</sup>	Determination of hazelnut allergen by ELISA commercial kit	<b>CZ_SOP_D06_04_234</b> (Bio-Check – Hazelnut Check manual)	Food, dietary supplements, swabs
3.33 <sup>1)</sup>	Determination of egg allergen (egg white proteins) by ELISA commercial kit	<b>CZ_SOP_D06_04_235</b> (Bio-Check – Egg Check manual)	Food, dietary supplements, swabs
3.34 <sup>1)</sup>	Determination of milk allergen (casein and $\beta$ -lactoglobulin proteins) by ELISA commercial kit	<b>CZ_SOP_D06_04_236</b> (Bio-Check – Milk Check manual)	Food, dietary supplements, swabs
3.35 <sup>1)</sup>	Determination by sesame allergen by ELISA ELISA commercial kit	<b>CZ_SOP_D06_04_237</b> (Bio-Check – Sezame Check manual)	Food, dietary supplements, swabs

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

**Tests: MIKROBIOLOGY 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, wastewater
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, wastewater
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, wastewater
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	<b>CZ_SOP_D06_04_258</b> (Hausler, J.: Microbiological Culture Methods of Quality Inspection, Volume III, 1995)	Pool, surface, wastewater
4.10 <sup>1)</sup>	Enumeration of <i>Clostridium perfringens</i> by membrane filtration	<b>CZ_SOP_D06_04_259</b> (GR 252/2004 Coll., Annex 6, GR č. 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, wastewater
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	<b>CZ_SOP_D06_04_266</b> (ČSN EN ISO 13959, ČSN EN ISO 23500)	Dialysis water



**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
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: MIKROBIOLOGY**

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
5.1 <sup>1)</sup>	Enumeration of microorganisms by cultivation	<b>ČSN EN ISO 4833</b>	Food, feed, dietary supplements
5.2 <sup>1)</sup>	Enumeration of coliform bacteria by cultivation	<b>ČSN ISO 4832</b>	Food, feed, dietary supplements
5.3 <sup>1)</sup>	Enumeration of enterococci by cultivation	<b>CZ_SOP_D06_04_302</b> (CSN 56 0100:1994)	Food, feed, dietary supplements
5.4 <sup>1)</sup>	Enumeration of <i>Bacillus cereus</i> by cultivation	<b>ČSN EN ISO 7932</b>	Food, feed, dietary supplements
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, dietary supplements
5.6 <sup>1)</sup>	Enumeration of <i>Clostridium perfringens</i> by cultivation	<b>ČSN EN ISO 7937</b>	Food, feed, dietary supplements
5.7 <sup>1)</sup>	Detection of <i>Salmonella</i> by cultivation	<b>ČSN EN ISO 6579-1</b>	Food, feed, dietary supplements
5.8 <sup>1)</sup>	Detection of <i>Salmonella</i> by cultivation	<b>CZ_SOP_D06_04_307</b> excl. chap. 9.1.2 (ČSN EN ISO 6579, AHEM č. 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> excl. chap. 9.1.1 (ČSN EN ISO 6579, AHEM č. 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, dietary supplements
5.12 <sup>1)</sup>	Enumeration of yeasts and moulds by cultivation	<b>ČSN ISO 21527-1,2</b>	Food, feed, dietary supplements
5.13 <sup>1)</sup>	Detection of <i>Enterobacteriaceae</i> by cultivation	<b>ČSN ISO 21528-1</b>	Food, feed, dietary supplements

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
5.14 <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
5.16 <sup>1)</sup>	Enumeration of mesophilic lactic acid bacteria by cultivation	<b>ČSN ISO 15214</b>	Food, feed, dietary supplements
5.17 <sup>1)</sup>	Detection of <i>Shigella spp.</i> by cultivation	<b>ČSN EN ISO 21567</b>	Food, feed
5.18 <sup>1)</sup>	Detection of <i>Campylobacter spp.</i> by cultivation	<b>ČSN EN ISO 10272-1</b>	Food, feed
5.19 <sup>1)</sup>	Detection of presumptive pathogenic <i>Yersinia enterocolitica</i> by cultivation	<b>ČSN EN ISO 10273</b>	Food, feed
5.20 <sup>1)</sup>	Enumeration of Enterobacteriaceae by cultivation	<b>ČSN ISO 21528-2</b>	Food, feed, dietary supplements
5.21 <sup>1)</sup>	Enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> by cultivation	<b>ČSN ISO 16649-2</b>	Food, feed, dietary supplements
5.22 <sup>1)</sup>	Detection and enumeration of <i>Listeria monocytogenes</i> by cultivation	<b>ČSN EN ISO 11290-1,</b> <b>ČSN EN ISO 11290-2</b>	Food, feed, dietary supplements
5.23 <sup>1)</sup>	Enumeration of potentially toxinogenic moulds on special media by cultivation	<b>CZ_SOP_D06_04_321</b> (AHEM č. 1/2003)	Food, feed
5.24 <sup>1)</sup>	Enumeration of microorganisms in air by aeroscopy and sedimentation method	<b>CZ_SOP_D06_04_322</b> (ČSN 56 0100:1994, article 149, 150 AHEM č.1/2002)	Internal air environment
5.25 <sup>1)</sup>	Determination of microbial contamination of areas, surface of equipment and packages using swab method	<b>CZ_SOP_D06_04_323</b> (ČSN 56 0100:1994, čl.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	<b>CZ_SOP_D06_04_324</b> (AHEM č. 1/2008, ČSN ISO 16649-2)	Sludge, bio waste, compost, substrates, soils, sand
5.27 <sup>1)</sup>	Enumeration of enterococci by cultivation	<b>CZ_SOP_D06_04_325</b> (AHEM č. 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	<b>CZ-SOP-D06_04_326</b> (manual Solus)	Food, feed, dietary supplements
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	<b>ČSN EN ISO 22964</b>	Milk and milk products
5.32 <sup>1)</sup>	Detection and enumeration of aerobic mesophilic bacteria by cultivation	<b>ČSN EN ISO 21149</b>	Cosmetics
5.33 <sup>1)</sup>	Detection of <i>Pseudomonas aeruginosa</i> by cultivation	<b>ČSN EN ISO 22717</b> <b>ČSN EN ISO 18415</b>	Cosmetics
5.34 <sup>1)</sup>	Detection of <i>Staphylococcus aureus</i> by cultivation	<b>ČSN EN ISO 22718</b> <b>ČSN EN ISO 18415</b>	Cosmetics
5.35 <sup>1)</sup>	Detection of <i>Candida albicans</i> by cultivation	<b>ČSN EN ISO 18416</b> <b>ČSN EN ISO 18415</b>	Cosmetics
5.36 <sup>1)</sup>	Detection of <i>Escherichia coli</i> by cultivation	<b>ČSN EN ISO 21150</b> <b>ČSN EN ISO 18415</b>	Cosmetics
5.37 <sup>1)</sup>	Enumeration of yeast and mould by cultivation	<b>ČSN EN ISO 16212</b>	Cosmetics

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
5.38 <sup>1)</sup>	Evaluation of antimicrobial protection of cosmetic product, test of conservation effectiveness	<b>CZ_SOP_D06_04_336</b> (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 Escherichia coli - Technique of most probable number	<b>ČSN ISO 7251, expected Art. 9.2</b>	Food, feed
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: EKOTOXIKOLOGY**

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
6.1 <sup>2)</sup>	Determination of the acute lethal toxicity of substance to a freshwater fish	<b>CZ_SOP_D06_07_350</b> (ČSN EN ISO 7346-1, ČSN EN ISO 7346-2, STN 83 8303)	Surface, underground and wastewater, 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 wastewater, 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 wastewater, 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 wastewater, extracts of waste, solutions and extracts of chemical substances and agents

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
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 wastewater, 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
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. Zucconi et al.: Biological evaluation of compost maturity. BioCycle, 22(2), 1981, s. 27–29.)	Surface, underground and wastewater, 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 wastewater, extracts of waste, solutions and extracts of chemical substances and agents

**Tests: RADIOLOGY**

Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
7.1 <sup>2)</sup>	Determination of gross alpha activity by measuring of evaporated residue in a mixture with ZnS(Ag) scintillator	<b>ČSN 75 7611-chapter 4</b>	Water, extracts
7.2 <sup>2)</sup>	Determination of gross alpha activity by measuring of incinerated evaporated residue by means of proportional detector	<b>ČSN 75 7611-chapter 5</b>	Water, extracts
7.3 <sup>2)</sup>	Determination of gross beta activity by measuring of evaporated residue by means of proportional detector and calculation of gross beta activity corrected for potassium 40 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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
7.6 <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
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)	CZ_SOP_D06_07_365 (ČSN EN ISO 9698)	Water, extracts
7.10 <sup>2)</sup>	Determination of polonium 210 after its concentration by sorption on ZnS(Ag) by the measurement of emitted scintillations	<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 calculation of the mass activity index I (ACI) from the measured values of 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 analyzer	<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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
7.18 <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
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
7.23 <sup>2)</sup>	Determination of radium 226 and 228 by the liquid scintillation method (LSC)	<b>CZ_SOP_D06_07_376</b> (ČSN EN ISO 22908)	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, ASTM D7279, ASTM D7042)	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, ASTM D93)	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)	Liquid fuels, lubricating oils
8.7 <sup>11)</sup>	Determination of flash and fire points by Cleveland open cup method by flash point analyser	<b>CZ_SOP_D06_05_406</b> (ASTM D92)	Liquid fuels, lubricating oils
8.8. <sup>11)</sup>	Determination of cold filter plugging point (CFPP) by gradual cooling method	<b>CZ_SOP_D06_05_407</b> (ČSN EN 116, ASTM D6371)	Diesel fuel, light fuel oils

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

**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 and calculation of moisture 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 č. 33 VILLA LABECO s.r.o.)	Food, feed
9.5 <sup>1)</sup>	Determination of phosphates by capillary isotachopheresis	<b>CZ_SOP_D06_04_454</b> (ITP: Application sheet č. 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	Determination of polyols by ion chromatographic method with EC detection	CZ_SOP_D06_04_457 (ČSN EN 15086, DIONEX Technical Note 20)	Food, feed, dietary supplements
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, ČSN EN ISO 6865)	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, ČSN EN 12147, ČSN 56 0246-13)	Fruit juices, fruit and vegetable products, mayonnaise, 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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

<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>
9.20 <sup>1)</sup>	Determination of alkalinity of water-soluble ash by titration	ČSN ISO 1578	Tea
9.21 <sup>1)</sup>	Gravimetric determination of total ash	ČSN ISO 1575	Tea
9.22 <sup>1)</sup>	Gravimetric determination of water-soluble and water-insoluble ash	ČSN ISO 1576	Tea
9.23 <sup>1)</sup>	Gravimetric determination of acid-insoluble ash	ČSN ISO 1577	Tea
9.24 <sup>1)</sup>	Gravimetric determination of water extract	ČSN ISO 9768	Tea
9.25 <sup>1)</sup>	Gravimetric determination of loos in mass at 103°C	ČSN ISO 1573	Tea
9.26 <sup>1)</sup>	Determination of total nitrogen by Dumas method by analyser and protein calculation from measured values	CZ_SOP_D06_04_475 (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	ČSN EN ISO 6571	Spices, spicing agents, herbs
9.28 <sup>1)</sup>	Determination of the weight of consumer packaging of food and animal feeding stuff products by gravimetry	CZ_SOP_D06_04_477 (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>	CZ_SOP_D06_04_478 (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>	CZ_SOP_D06_04_479 (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>	ČSN 46 7092-24	Feed
9.32 <sup>1)</sup>	Determination of 4-hydroxyproline by spectrophotometry and calculation of collagen from measured values	CZ_SOP_D06_04_481 (ISO 3496)	Meat products
9.33 <sup>1)</sup>	Determination of fat content by NMR method	CZ_SOP_D06_04_482 (Journal of AOAC International vol 88, No1,2005; Journal of AOAC International vol 86, No6, 2003)	Selected food, raw materials for production of food, feed, dietary supplements
9.34 <sup>1)</sup>	Volumetric determination of peroxide value	CZ_SOP_D06_04_483 (ČSN EN ISO 3960)	Fat, vegetable oils
9.35 <sup>1)</sup>	Determination of water activity by capacitive sensors method	ČSN ISO 21807	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	CZ_SOP_D06_04_485 (Decree 69/2016 Coll.)	Meat, meat products
9.37 <sup>1)</sup>	Identification of synthetic dyes <sup>57</sup> by thin-layer chromatography method	CZ_SOP_D06_04_486 (Davídek J., Laboratory manual of Food Analysis, 1981)	Food
9.38 <sup>1)</sup>	Determination of piperine content by spectrophotometry	ČSN ISO 5564	Black pepper and white pepper, whole or ground



**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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Ordinal number <sup>1</sup>	Test procedure Method name	Test procedure Method identification <sup>2</sup>	Tested object
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
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> if the laboratory can carry out tests outside its permanent premises, these tests shall be marked with an asterisk at the serial number, the indices for the serial numbers indicate the number of the workplace at which the method is performed

<sup>2</sup> for dated documents identifying test procedures, only these specific procedures are used, for undated documents identifying test procedures, the latest edition of that procedure (including any changes) is used

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1.1-1.12; 1.15-1.18; 1.41; 1.44; 1.48; 1.51; 1.67–1.68; 1.84; 1.91; 1.113 - 1.116; 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; 2.16-2.34; 2.38-2.41; 2.43-2.46; 2.51-2.55; 2.57-2.86; 2.88-2.91
3.1-3.20; 3.22; 3.24-3.35
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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

AHEM	Acta hygienica, epidemiologica et microbiologica
AITM	Airbus methods
BDE	Brominated diethylethers
BFR	Brominated flame retardants
Bioindicators	Fresh water and sea water plankton
ACI	Activity Concentration Index
Biological material	Blood, tissues, mother's milk, urine, sweat
CFA	Continuous Flow Analyser
CFPP	Cold Filter Plugging Point
ČL	Czech Pharmacopoeia
DIN	Deutscher Institut fuer Normung
DM 06/09/94 GU n° 288 10/12/1994 All. 1 Met. B.	Decree of 06/09/1994 (Decreto Ministeriale 6 settembre 1994), published in Bulletin No. 288 10/12/1994
EC	Electrochemical detection
ECD	Electron Capture Detector
Emissions	Filters, liquid and solid sorbents, condensates, fly ash
SPMD Extracts	SPMD from surface water, ground water and immissions
Fermented and hydrolysed food and beverages	E.g. beer, starch and starch products, soy sauces, malt extracts, yeast doughs
FID	Flame Ionization Detector
FLD	Fluorescence Detector
HRGC/HRMS	High Resolution Gas Chromatography/High Resolution Mass Spectrometry
I	Mass activity index
ID	Indicative dose
Immissions	Filters, solid sorbents
IP	International Petroleum test method
IR	Infrared Region Detector
ISE	Ion Selective Electrode
ISO	International Organization for Standardisation
ITP	Isotachopheresis
Liquid samples	Industrial liquids, technological liquids, technological baths
Contaminated surfaces	Food industry premises, walls after fire, walls of technological plants
Feedstuffs	Animal feeding products, PET Food
LDN	Labor Diagnostika Nord GmbH & Co.KG
LSC	Liquid Scintillation Counting method for the determination of alpha- or beta- radiation emitting radionuclides
Materials for building	Materials from construction (demolished material, recycle, disposed building materials)
MS	Mass Detector
MUFA	Monounsaturated Fatty Acids
NEN	Nederlands Normalisatie-Institut
NIOSH	National Institute for Occupation Safety and Health
NIOSH <sup>1)</sup>	Methods used for CZ_SOP_D06_03_153 - NIOSH 1400, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1022, NIOSH 1602, NIOSH 1609
GR	Government Regulation

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

PBB	Polybrominated biphenyls
PhEur	European Pharmacopoeia
PDA	Photo-Diode-Array detector
Solid samples	Waste (solid, liquid, biowaste), sediments, sludge, technological sludge products, soils, rocks, coal
Gases	Gases from biogas plants, landfill gases
Working environment	Filters, solid sorbents, tubes
PUFA	Polyunsaturated Fatty Acids
RI	Refractometric Detector
Vegetable materials	Green plants (root, flower, green parts), pollen
SAFA	Saturated Fatty Acids
SEM/EDS	Scanning Electron Microscope / Energy Dispersive Spectrometer
SFS	The Finish Standard Association
SM	Standard Methods – Standard US methods for the analysis of drinking and waste water prepared and issued by American Public Health Association, American Water Works Association and Water Environmental Federation, 21 <sup>st</sup> edition
SOP	Standard operating procedure
SPIMFAB	SPI MILJOSANERINGSFOND AB – method of Swedish Petroleum Institute
SPMD	Semi-Permeable Membrane Device
SS	Svensk Standard – Swedish standard
Building materials	New or unused building materials and raw materials for their production
STN	Slovak Technical Standard
SÚJB	State Office for Nuclear Safety
Sum of Ca+Mg	Water hardness
TCD	Thermal Conductivity Detector
TEQ	Toxic Equivalent
TFA	Trans Fatty Acids
TNV	Branch Technical Standard of Water Management
Treated water	Water for dialysis, aqua purificata, process, industrial, boiler and cooling water, irrigation water, water supplied by piping or taken from various reservoirs
USBSC	Empirical formula of permeability of mixed materials, coefficient of permeability was extracted from granulometry analysis
US EPA	U.S. Environmental Protection Agency
USP	US Pharmacopoeia
UV	Ultraviolet Detector
Water	Drinking, bottled, natural, mineral, pool, hot, bathing, raw, underground, surface, waste, sea water
Selected food	Food, raw materials for the production of food, food supplements and feedstuffs, except samples of listed matrices with humidity above 95%, unprocessed cereals and condensed milk
Extracts	Aqueous extracts of soils, sediments and waste according to valid legislation Extracts are usually 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. The extract preparation method is always indicated in the test report.
Animal materials	Insects

**Explanation**

**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-

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

Ethyl-3-Methylbenzene, 1-Ethyl-4-Methylbenzene, 2-butanone (methyl isobutyl ketone-MEK), 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, Cyclohexane, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Dichloromethane, Diisopropyl ether, Ethanol, Ethylbenzene, Ethyl tert-Butyl Ether (ETBE), Hexachlorobutadiene, Chlorobenzene, Chloroethane, Chloromethane, Chloroform, Indane, Isobutanol, Isobutyl Acetate, Isopropylbenzene, Methyl ethyl ketone, Methyl isobutyl ketone, Methyl tert-Butyl Ether (MTBE), m-Xylene, Naphthalene, n-Butanol, n-Butyl Acetate, n-Butylbenzene, n-Propylbenzene, o-Xylene, p-Isopropyltoluene, p-Xylene, sec-Butanol, sec-Butyl Acetate, sec-Butylbenzene, Styrene, TAEE, TBA, tert-Amyl Methyl Ether, tert-Butanol, tert-Butyl Acetate, tert-Butylbenzene, Tetraethyl lead, Tetrahydrofuran, Tetrahydrothiophene, Tetrachloroethene, Tetrachloromethane, Toluene, total VOC, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride, Aliphates >C5-C6, Aliphates >C6-C8, Aromatics >C6-C7, Aromatics >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-butylether), 1,2-dichloroethane, 1,2-dibromomethane, aliphates >C10-C12, aliphates >C12-C16, aliphates >C16-C35, 1-ethyl-3-methylbenzene, 1-ethyl-4-methylbenzene, 1-ethyl-2-methylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, 1,3-diethylbenzene, 1,4-diethylbenzene, 1,2-diethylbenzene, 1,2,4,5-tetramethylbenzene, naphthalene, 2-methylnaphthalene, 1-methylnaphthalene, biphenyl, 2+1-ethylnaphthalene, 1,7-dimethylnaphthalene, 2,6-dimethylnaphthalene, 1,4+2,3-dimethylnaphthalene, acenaphthylene, 1,8-dimethylnaphthalene, acenaphthene, 2,3,5-trimethylnaphthalene, fluorine, phenanthrene, anthracene, 2-methylantracene, 1-methylantracene, 2-methylphenanthrene, 1-methylphenanthrene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, indeno-(1,2,3,c,d)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, methylpyrenes/ methylfluoranthenes, methylchrysenes/ methylbenzo-[a]-anthracenes, 1,2-dichlorobenzen, 1,3-dichlorobenzen, 1,2,4-trichlorobenzen, 1,3,5-trichlorobenzen, 1,2,3,4-tetrachlorobenzen, 1,2,4,5-tetrachlorobenzen, 1,2,3,5-tetrachlorobenzen, pentachlorobenzen, hexachlorobenzen, 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, octachlorostyrene, di-n-butylphthalate, bis(2-ethylhexyl) phthalate (DEHP), endosulfan-sulphate, mirex, cis-chlordane, trans-chlordane, oxychlordane, cis-nonachlor, trans-nonachlor, PBB 153, pentachlorotoluene, benzylalkohol, acetofenon, 6-kaprolaktam, izoforon, anilin, difenylamin, 4-chloranilin, benzidin, 4-bromofenylfenyl ether, karbazol, bifenyl, 2-chlornaftalen, 1-chlornaftalen, 2-methylnaftalen, 4-chlorfenylfenyl ether, dibenzofuran, bis(2-chlorethyl)ether, bis(2-chlorethoxy)methan, bis(2-chlorisopropyl)ether (všechny izomery), fenol, 2-methylfenol, 3-methylfenol, 3- & 4-methylfenol, 4-methylfenol, 2,4-dimethylfenol, 4-chlor-3-methylfenol, hexachlorcyklopentadien, nitrobenzen, 2-nitrofenol, 4-nitrofenol, 2,4-dinitrotoluen, 2,6-dinitrotoluen, 2,4-dinitrofenol, 4,6-dinitro-2-methylfenol, 2-nitroanilin, 3-nitroanilin, 4,2-nitroanilin, N-nitrosodimethylamin, N-nitrosodi-n-propylamin, dinoseb, dimethylftalát, diethylftalát, butylbenzylftalát, bis(2-ethylhexyl)ftalát, di-n-oktylftalát, sums calculation according to CZ\_SOP\_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, endrin aldehyde, endrin ketone, heptachlor, hexabrombifenyl (PBB 153), hexachlorbenzen, hexachlorbutadien, hexachlorethan, isodrin, methoxychlor, mirex, oktachlorstyren, oxychlordan, pentachloraniline, pentachlorbenzen, quintozone, telodrin (isobenzan), tetradiphone toxafen, trans-heptachlorperoxid, trans-chlordan, trans-nonachlor, trifluralin,  $\alpha$ -endosulphan,  $\alpha$ -HCH,  $\beta$ -endosulphan,  $\beta$ -HCH,  $\gamma$ -HCH (Lindan),  $\delta$ -HCH,  $\epsilon$ -HCH, 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

**Appendix is an integral part of  
Certificate of Accreditation No.: 519/2021 of 05/10/2021**

**Entity accredited as p ČSN EN ISO/IEC 17025:2018:**

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

**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-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

**Acid herbicides and drug residues<sup>17</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

**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

**Volatile organic compounds<sup>19</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>20</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, 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

**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-propanediol, monopropylenglycol (as C), ethylenglycol, ethylenglycol (as C), 1,3-butandiol, diethylenglycol, diethylenglycol (as C), triethylenglycol, triethylenglycol (as C)

**Semi-volatile organic compounds<sup>27</sup>** - naphthalene, acenafthylene, acenaphthene, fluorine, phenanthrene, anthracene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(a)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, indeno-(1,2,3,c,d)-pyrene, PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, 2,4-DDD, 2,4-DDE, 2,4-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-endosulfan, beta-endosulfan, dieldrin, heptachlor, heptachlor epoxide-cis, heptachlor epoxide-trans, hexachlorobenzene, (HCB), hexachlorobutadiene, HCH alpha, HCH beta, HCH gamma, hexachloroethane, isodrine, pentachlorobenzene, telodrin sums calculation according to CZ\_SOP\_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-trichlorobenzoic acid, 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,4-DP (isomers), 3,5,6-trichloro-2-pyridinol, 4-CPP, 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, 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

**Pesticides, pesticide metabolites, drug residues and other pollutants<sup>30</sup>** - 1,2,4-triazol, 1-(3,4-dichlorophenyl) urea (DCPU), 17-alpha-ethinylestradiol, 17-beta-estradiol, 1H-benzotriazol, 1-methyl-1H-benzotriazol, 2-aminobenzothiazol, 2-amino-4-methoxy-6-methyl-1,3,5-triazin, 2-amino-N-(isopropyl)benzamide, 2-chloro-2,6-diethylacetanilid, 2-hydroxybenzothiazol, 2-hydroxycarbamazepine, 2-isopropyl-6-methyl-4-pyrimidinol, 2-

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methylbenzothiazol, 2-methylmercaptobenzothiazol, 2-methylsulfonyl-4-trifluoromethyl benzoic acid, 3,4-dichloroaniline (DCA), 3,5,6-trichloro-2-pyridinol, 3-chloro-4-methylaniline, 3-hydroxycarbamazepine, 5-methyl-1H-benzotriazol, 6-chloronicotinic acid, 6-chloroquinoxalin-2,3-diol, acesulfam K, acetamid, acetochlor, acetochlor ESA, acetochlor OA, acibenzolar-S-methyl, aclonifen, acrinathrin, acrylamid, alachlor, alachlor ESA, alachlor OA, aldicarb, aldicarb sulfone, aldicarb sulfoxide, aldoxycarb, allethrin, anastrozol ametryn, amidithion, amidosulfuron, amitraz, anilazin, asulam, atraton, atrazin, atrazin-2-hydroxy, atrazin-desethyl, atrazin-desethyl-desisopropyl, atrazin-desisopropyl, atenolol, azaconazole, azathioprin, azinfos-ethyl, azinfos-methyl, azoxystrobin, azoxystrobin isopyrazam, azoxystrobin o-demethyl, BAM (2,6-dichlorobenzamide), BDMC, benalaxyl, bendiokarb, benfuracarb, bentazone, bentazone methyl, beta-cyfluthrin, bezafibrat, bifenox, bifenthrin, biteranol, boskalid, brodifacoum, bromacil, bromadiolon, bromofos-ethyl, bromoxynil, buprofezin, buprenorfin, butorfanol, cadusafos, ciprofloxacina, citalopram, clofentezin, coumafos, cyanazine, cyfenothrin, cyflufenamid, cyclamate, cyclobenzaprin, cyclofosamid, cymoxanil, cypermethrin, cyprazin, cyprodinil, cyproconazole, cyromazin, DEET, deltamethrin, desmedifam, desmethrin, diazepam, diazinon, diethofencarb, difenacoum, difenoconazole, difenoxuron, diflubenzuron, diflufenican, dichlofenthion, dichlormid, dichlorvos, diclofenac, dicrotophos, diquat, dimeturon, dimethachlor, dimethachlor CGA 369873, dimethachlor CGA 373464, dimethachlor ESA, dimethachlor OA, dimethenamid, dimethenamid ESA, dimethenamid OA, dimethylaminosulfanilid, dimethoate, dimetomorph, dimoxystrobin, diuron, diuron desmethyl (DCPMU), enalapril, epoxiconazole, EPTC, estriol, estron, ethiofencarb, ethion, ethofumesate, ethoprophos, ethoxazol, famoxadon, famphur, fenamifos, fenamifos sulfon, fenamifos sulfoxide, fenarimol, fenhexamide, fenmedifam, fenothiocarb, fenothrin, fenoxaprop, fenoxycarb, fenpropathrin, fenpropidin, fenpropimorf, fensulfotion, fenuron, fipronil, fipronil sulfon, florasulam, floxetin, fluazifop, fluazifop-butyl, fluazifop-butyl (isomers), fluazifop-P, fluazifop-p-butyl, fludioxonil, flufenacet, flufenacet ESA, flufenacet OA, fluometuron, fluopicolid, fluopyram, fluquinconazole, flusilazol, flutamid, flutolanil, fonofos, foramsulfuron, phorate, phosalone, fosphamidon, phosmet, phosmet-oxon, phosthiatze, furalaxyl, furathiokarb, furosemid, gabapentin, gemfibrozil, guanylurea, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-p-methyl, hexaconazole, hexazinon, hexythiazox, hydrochlorothiazid, chloramfenicol, chlorantraniliprol, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlormequate, chlorotoluron, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chlorosulfuron, chlorotoluron-desmethyl, ifosfamid, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, indomethacin, indoxacarb, iodosulfuron methyl, iohexol, iomeprol, iopamidol, iopromid, iprodion, iprovalicarb, irgarol, isofetamid, isoproturon, isoproturon-desmethyl, isoproturon-monomesmethyl, isopyrazam, isoxaflutol, isoxaflutol diketonitril, capecitabin, carbamazepin, carbamazepin 10,11-epoxide, carbamazepin 10,11-dihydro-10-hydroxy, carbamazepin 10,11-dihydroxy, carbaryl, carbendazim, carbetamid, carbofuran, carbofuran (sum), carbofuran-3-hydroxy, carboxin, carfentrazone-ethyl, ketoprofen, clodinafop, clodinafop propargil, clomazon, clomeprop, clothianidin, caffeine, cresoxim-methyl, crimidin, amidotriazoic acid, clofibrac acid, lambda-cyhalothrin, lenacil, lincomycine, linuron, loperamid, malaon, malathion, mandipropamid, MCPA, MCPP, mefenpyr-diethyl, mefenftrifluconazole, mevarbam, mepiquate, metsulfuron-methyl, mesosulfuron-methyl, mesotrion, mestranol, metazulfuron metalaxyl, metalaxyl (isomery), metamitron, metazachlor, metazachlor ESA, metazachlor OA, metformin, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb sulfon, methiocarb sulfoxide, methomyl, methomyl oxim, methoprolol, methoprotin methoxyfenozid, metconazole, metobromuron, metolachlor, metolachlor (isomers), metolachlor (S), metolachlor CGA 368208, metolachlor ESA, metolachlor NOA 413173, metolachlor OA, metoxuron, metrafenone, metribuzin, metribuzin-desamino, metribuzin-desamino diketo, metribuzin-diketo, metrodinazol, molinate, monocrotophos, monolinuron, monuron, myklobutanil, mycophenolate mofetil, napropamid, naphthalene, naproxen, neburon, nicosulfuron, N,N-Dimethylsulfamid, norflurazon, nuarimol, omethoate, oxadiazon, oxadixyl, oxamyl, oxyfluorfen, oxazepam, paclobutrazol, paclitaxel, paracetamol (acetaminofen), paraquat, paraoxon-ethyl, paraoxon-methyl, parathion-ethyl, pencyuron, pendimethalin, penconazole, permethrin, pethoxamide, pethoxamide ESAPicloram, picoxystrobin, pirimiphos-ethyl, pirimiphos-methyl, pirimicarb, piroxicam, p-isopropylaniline, pretilachlor, primsulfuron-methyl, prodiamin, profam, profenofos, prochloraz, procmebar, prometon, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propanil, propanolol, propaquizafop, propazine, propazine-2-hydroxy, propiconazole, propoxur, propoxycarbazone-sodium, propylene thiourea, propyzamide, prosulfocarb, prothioconazole, pyraclostrobin, pyribenzoxim, pyridaben, pyridate, pyrimethanil, pyriproxyfen, quinalphos, quinalorac, quinmerac, quinoxifen, quizalofop, quizalofop-p-ethyl, rimsulfuron, saccharine, salbutamol, sebutylazine, sebumeton, sedaxan, sertraline, sethoxydim, siduron, simazine, simazine-2-hydroxy, simazine-desethyl, simetryn, sotalol, spinosad (spinosyn A + spinosyn D), spiroxamin, sulfamethazine, sulfamethoxazol, sulfosulfuron, tau-fluvalinate, tebufenpyrad, tebuconazole, tebuthiuron, teflubenzuron, tefluthrin, terbutalin, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, tetramethrin, thebain, thiabendazol, thiacloprid, thiametoxam, thiazafuron, thidiazuron, thifensulfuron-methyl, thiobencarb, thiofanate-methyl, tolcofos-methyl, tramadol, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl, tricyclazol, trietazin, trifloxystrobin, trifloxysulfuron sodium, trifluralin, triflururon, triflurosulfuron-methyl, triforin, trimethoprim, trinexapac-ethyl, triticonazole, tritosulfuron, valsartan, warfarin, zolpidem, zoxamide, 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, bromofos-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), ethalfluralin, ethiofencarb-sulfone, ethion, ethofenprox, etridiazole, etrimfos, fenamifos, fenamifos sulfone, fenamifos sulfoxide, fenazaquin, fenchlorphos, fenchlorphos-oxon, fenitrothion, fenthion, fenvalerate (RR-/SS-isomers), flamprop-isopropyl, flamprop-methyl, fluchloralin, fluopicolid, fluorodifen, fluotrimazole, fluquinconazole, flurenol-butyl, flurochloridone, genite, halfenprox, heptenophos, chlordecon, chlorfenapyr, chlorfenvinphos, chlormephos, chlorbenzilate, 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 phosphorotrithioate, spiromesifen, sulfotep, sulprofos, tebutirimfos, tecnazene, tefluthrin, telodrin (isobenzan), temephos, terbufos, tetraclorvinphos, tetrasul, thiometon, thionazin, tolylfluanid, 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

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

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

**SAFA, MUFA, PUFA, TFA, Omega 3, Omega 6<sup>35</sup>** - SAFA - butyric (C4:0), caproic (C6:0), caprylic (C8:0), capric (C10:0), undecanoic (C11:0), lauric (C12:0), tridecanoic (C13:0), miristic (C14:0), pentadecanoic (C15:0), palmitic (C16:0), heptadecanoic (C17:0), stearic (C18:0), arachidic (C20:0), heneicosanoic (C21:0), behenic (C22:0), tricosanoic (C23:0), lignoceric (C24:0), MUFA - myristoleic (C14:1), cis-10-pentadecenoic (C15:1), palmitoleic (C16:1), cis-10-heptadecenoic (C17:1), oleic (C18:1n9c), cis-11-eicosenic (C20:1), erudic (C22:1n9), nervonic (C24:1), PUFA - linoleic (C18:2n6c),

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

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

**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, Ta, 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, Nb, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr

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

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

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

**Pesticides and their metabolites MS detection**<sup>46</sup> – AMPA, glyphosate

**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 Fluorotelomeric sulfonate (4:2 FTS), 6:2 Fluorotelomer sulfonic acid (6:2 FTS), 8:2 Fluorotelomer sulfonic acid (8:2 FTS), 10:2 Fluorotelomeric sulfonate (10:2 FTS), Perfluorooctane sulfonamide (FOSA), N-Methyl perfluorooctane sulfonamide (MeFOSA), N-Ethyl perfluorooctane sulfonamide (EtFOSA), Perfluorooctane sulfonamidoacetic acid (FOSAA), N-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA), N-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA), 7H-perfluoroheptanoic acid (HPFHpA), Perfluoro-3,7-dimethyloctanoic acid (P37DMOA), N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE), N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE), PFCs Total Oxidizable Precursors (TOP) (M4), Hexabromocyclododecane (HBDCD), 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





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**Pesticides, pesticide metabolites and drug residues – matrices buiding material, material for building<sup>71</sup>** - 1-(3,4-Dichlorophenyl) urea (DCPU), 2-Chloro-2,6-diethylacetanilide, 6-chloronicotinic acid, acetamidiprid, acetochlor, aclonifen,alachlor, aldicarb, ametryn, amidosulfuron, asulam, atraton, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desisopropyl, azaconazole, azinphos-methyl, azoxystrobin, azoxystrobin-o-demethyl, BAM, benalaxyl, bentazone methyl, bifenox, bitertanol, boscalid, bromacil, bromophos-ethyl, buprofezin, cadusafos, carbendazim, carbofuran, carboxin, clofentezine, clomazone, clomeprop, clothianidin, coumaphos, crimidine, cyanazine, cybutryne (irgarol), cyflufenamid, cyproconazole, cyprodinil, desmetryn, diazinon, dicotophos, difenacoum, difenoconazole, difenoxuron, diflubenzuron, diflufenican, dichlofenthion, dichlormid, dimefuron, dimethachlor, dimethenamid, dimethoate, dimethomorph, dimethylaminosulfanilide, dimoxystrobin, diuron, diuron desmethyl (DCPMU), epoxiconazole, EPTC, ethion, ethofumesate, ethoprophos, etoxazole, famphur, fenamiphos, fenarimol, fenhexamid, fenothiocarb, fenoxycarb, fenpropidin, fenpropimorph, fensulfthion, fenuron, fipronil, fipronil sulfone, florasulam, fluaizifop, fluaizifop-p-butyl, fludioxonil, flufenacet, fluometuron, fluopicolide, fluopyram, fluquinconazole, flusilazole, flutolanil, fonofos, foramsulfuron, furalaxyl, haloxyfop, haloxyfop-2-ethoxyethyl, haloxyfop-p-methyl, hexaconazole, hexazinone, hexythiazox, chlorbromuron, chlorfenviphos, chloridazon, chloridazon-desphenyl, chloridazon-methyl desphenyl, chlorotoluron, chlorotoluron-desmethyl, chloroxuron, chlorpropham, chlorpyrifos, chlorpyrifos-methyl, chlorsulfuron, imazalil, imazamethabenz-methyl, imazamox, imazapyr, imazethapyr, imidacloprid, imidacloprid olefin, imidacloprid urea, isoproturon, isoproturon-desmethyl, isoproturon-monodesmethyl, lenacil, linuron, malathion, mandipropamid, mecarbam, mesosulfuron-methyl, metalaxyl, metatiron, metazachlor, metconazole, methabenzthiazuron, methidathion, methomyl, methomyl-oxime, methoxyfenozide, metabromuron, metolachlor (isomers), metoxuron, metrafenone, metribuzin, metribuzin-desamino, molinate, monolinuron, monuron, myclobutanil, napropamide, naptalam, neburon, nicosulfuron, norflurazon, nuarimol, oxadiazon, oxadixyl, oxyfluorfen, paclobutrazol, paraoxon-ethyl, parathion-ethyl, penconazole, pencycuron, pendimethalin, pethoxamid, phorate, phosalone, phosphamidon, picoxystrobin, pirimicarb, pirimiphos-ethyl, pirimiphos-methyl, prodiamine, prochloraz, prometon, prometryn, propachlor, propamocarb, propanil, propaquizafop, propazine, propham, propiconazole, propyzamide, prosulfocarb, pyraclostrobin, pyrimethanil, pyriproxifen, quinalphos, quinclorac, quinmerac, quinoxifen, quizalofop-p-ethyl, sebutylazine, sedaxane, sethoxydim, siduron, simazine, simazine-2-hydroxy, simetryn, spiroxamine, tebuconazole, tebufenpyrad, tebuthiuron, teflubenzuron, terbuthylazine, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbuthylazine-hydroxy, terbutryn, thiacloprid, thiamethoxam, thiazafurion, thidiazuron, thiobencarb, tolclofos-methyl, triadimefon, triadimenol, tri-allate, triasulfuron, triazophos, tribenuron-methyl, trietazine, trifloxystrobin, trifloxysulfuron-sodium, triflumizole, triflururon, triflurosulfuron-methyl, triticonazole, tritosulfuron, zoxamide, sums calculation according to CZ\_SOP\_D06\_03\_J02

**Pesticides, pesticide metabolites and drug residues<sup>72</sup>** - 6-chloronicotinic acid, acetamidiprid, 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

**Perfluorinated compounds<sup>73</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)

**Polycyclic aromatic hydrocarbons<sup>74</sup>** - naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo-(a)-anthracene, chrysene, benzo-(b)-fluoranthene, benzo-(k)-fluoranthene, benzo-(j)fluoranthene, benzo-(a)-pyrene, dibenzo-(a,h)-anthracene, benzo-(g,h,i)-perylene, indeno-(1,2,3,c,d)-pyrene, coronene, calculation of sums according to CZ\_SOP\_D06\_03\_J02

**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)3)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

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Certificate of Accreditation No.: 519/2021 of 05/10/2021**

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Ordinal number	Test procedure Method name	Test procedure Method identification <sup>1</sup>	Tested object
3 <sup>1)2)3)4)5)6)7)8)9)12)</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., as amended, Regulation SÚJB No. 307/2002 Sb.)	Drinking water, hot water
4 <sup>1)2)3)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)3)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)3)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 č. 238/2011 Sb.)	Pools water and filling water of artificial pools
7 <sup>1)2)3)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)3)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)3)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)	Soils
12 <sup>1)2)3)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,	Waste

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Ordinal number	Test procedure Method name	Test procedure Method identification <sup>1</sup>	Tested object
		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)	
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, ČSN EN 689+AC, GR č. 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, NV č. 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> indices for serial numbers of sampling procedures indicate the numbers of workplaces at which sampling is performed

<sup>2</sup> for dated documents identifying the sampling procedures, only these specific procedures are used, for undated documents identifying the sampling procedures, the latest edition of that procedure (including any changes) shall be used