The Appendix is an integral part of
Certificate of Accreditation No.: 62/2024 of 12/02/2024

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

Státní zdravotní ústav
CAB number 1206, Centre for Laboratory Testing
Šrobárova 49/48, 100 00 Praha 10 – Vinohrady

Testing laboratory workplaces:

1.	**Laboratory for Water**	Šrobárova 49/48, 100 00 Prague 10
2.	**Laboratory of Air Quality**	Šrobárova 49/48, 100 00 Prague 10
3.	**Laboratory for Chemical Safety of Products**	Šrobárova 49/48, 100 00 Prague 10
4.	**Laboratory for Trace Element Analysis**	Šrobárova 49/48, 100 00 Prague 10
5.	**Laboratory for the Assessment of Special Types of Foods**	Šrobárova 49/48, 100 00 Prague 10
6.	**Laboratory for Physical Factors**	Šrobárova 49/48, 100 00 Prague 10
7.	**Laboratory for the Assessment of Occupational Exposure to Chemicals**	Šrobárova 49/48, 100 00 Prague 10
8.	**Laboratory for Microbiology of Consumer Products, Special Types of Foods and Environment**	Šrobárova 49/48, 100 00 Prague 10
9.	**Laboratory of Soil and Waste Hygiene**	Šrobárova 49/48, 100 00 Prague 10
10.	**Laboratories of Toxicology**	Šrobárova 49/48, 100 00 Prague 10

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

The current list of activities carried out within the flexible scope is publicly available on the laboratory's website SZÚ https://szu.cz/sluzby/osvedceni-o-akreditaci/ in the form „List of activities within the flexible scope of accreditation".

The laboratory provides opinions and interpretations of the test results.

The laboratory is qualified to carry out standalone sampling.

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

1. Laboratory for Water

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of ammonium by spectrophotometry	SOP 1/1 (ČSN ISO 7150-1)	Drinking and surface water, water leachate	A
2	Determination of colour by spectrophotometry	SOP 2/1 (ČSN EN ISO 7887)	Drinking and surface water, water leachate	A
3	Determination of total organic carbon (TOC) by IR detection analyzer	SOP 3/1 (ČSN EN 1484)	Drinking and bathing water, water leachate	A
4	Determination of nitrate by spectrophotometry	SOP 4/1 (ČSN ISO 7890-3)	Drinking and bathing water, water leachate	A
5	Determination of nitrite by spectrophotometry	SOP 5/1 (ČSN EN 26777)	Drinking water, water leachate	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6	Determination of chemical oxygen demand using permanganate (COD_{Mn}) by titration	SOP 6/1 (ČSN EN ISO 8467)	Drinking water, water leachate	A
7	Determination of chlorides by titration	SOP 7/1 (ČSN ISO 9297)	Drinking and surface water, water leachate	A
8	Determination of electrical conductivity	SOP 8/1 (ČSN EN 27888)	Drinking and surface water, water leachate	A
9	Determination of iron by spectrophotometry	SOP 9/1 (ČSN ISO 6332)	Drinking and surface water	A
10	Determination of pH by potentiometry	SOP 10/1 (ČSN ISO 10523)	Drinking, bathing and surface water, water leachate	A
11	Sensory determination of the threshold odour number (TON) and threshold flavour number (TFN)	SOP 11B/1 (ČSN EN 1622)	Drinking water, water leachate	A
12*	Determination of temperature	SOP 12/1 (ČSN 75 7342)	Drinking, bathing and surface water	A
13	Determination of the sum of calcium and magnesium, calcium by titration and magnesium by calculation	SOP 13/1 (ČSN ISO 6058; ČSN ISO 6059)	Drinking water, water leachate	A
14*	Determination of free, bound and total chlorine by colorimetry (HACH set)	SOP 14/1 (HACH manual)	Drinking and bathing water, water leachate	A
15	Determination of turbidity by turbidimetry	SOP 15/1 (ČSN EN ISO 7027)	Drinking, bathing and surface water, water leachate	A
16	Determination of cations and anions by ion chromatography method	SOP 16/1 (EPA Method 300.1; ČSN EN ISO 10304-1; ČSN EN ISO 14911; ČSN EN ISO 10304-4; ČSN EN ISO 15061)	Drinking and bathing water, water leachate	A, B
17	Determination of polyaromatic hydrocarbons by GC-MS method	SOP 17/1 (ČSN ISO 28540; ČSN EN 16691)	Drinking water, water leachate	A, B

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
18	Determination of volatile organic compounds by GC-FID-ECD method with P&T thermal desorption	SOP 18/1 (ČSN EN ISO 10301)	Drinking and bathing water, water leachate	A, B
19*	Preliminary sensory analysis method	SOP 19/1 (ČSN 75 7340)	Drinking and bathing water	A
20	Determination of single-phase phenols volatile with water vapor by photometry	SOP 20/1.1 (ČSN 83 0520-26:1978)	Drinking and surface water, water leachate	A
21	Determination of silicon by spectrophotometry and calculation of SiO_2	SOP 21/1 (ČSN 75 7481)	Drinking and surface water, water leachate	A
22	Determination of base neutralizing capacity (BNC8,3) by titration and free carbon dioxide by calculation	SOP 22/1 (ČSN 75 7372; ČSN 75 7373)	Drinking and surface water, water leachate	A
23	Determination of acid neutralizing capacity (ANC4.5) by titration and calculation of hydrogen carbonate	SOP 23/1 (ČSN EN ISO 9963-1; ČSN EN ISO 9963-2; ČSN 75 7373)	Drinking and surface water, water leachate	A
24	Determination of dried dissolved solids by gravimetry	SOP 24/1 (ČSN 75 7346)	Drinking and surface water, water leachate	A
25	Microscopic analysis	SOP 25/1 (ČSN 75 7712; ČSN 75 7713)	Drinking and surface water, water leachate	A
26	Determination of chlorophyll-a by spectrophotometry	SOP 26/1 (ČSN ISO 10260)	Bathing and surface water	A
27	Determination of Cyanobacteria by light microscopy	SOP 27/1 (ČSN 75 7717)	Bathing, surface and drinking water	A
28	Isolation and identification of Cryptosporidium oocysts and Giardia cysts by filtration, immunomagnetic separation and fluorescence microscopy	SOP 28/1 (ISO 15553; US EPA Method 1623)	Drinking and surface water	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
29	Detection of *Escherichia coli* by quantitative polymerase chain reaction method (qPCR)	SOP 29/1 (USEPA 1609; ISO/TS 12869)	Bathing water, surface water	A
30	Detection of the spores of sulfite-reducing anaerobes by a membrane filtration method	SOP 30/1 (ČSN EN 26461-2)	Drinking and surface water	A
31	Detection of intestinal enterococci by a membrane filtration method	SOP 31/1 (ČSN EN ISO 7899-2)	Drinking, bathing and surface water, water leachate	A
32	Detection and enumeration *Clostridium perfringens* (including spores) by a membrane filtration method	SOP 32/1 (ČSN EN ISO 14189)	Drinking water	A
33	Determination of ATP by luminescence measurement	SOP 33/1 (ČSN EN 16421)	Water, biofilm, water leachate	A
34	Detection and enumeration of *Pseudomonas aeruginosa* by a membrane filtration method	SOP 34/1 (ČSN EN ISO 16266)	Drinking, bathing and surface water, water leachate	A
35	Detection and enumeration of *Escherichia col*i and coliform bacteria by a membrane filtration method	SOP 35/1 (ČSN EN ISO 9308-1)	Drinking, bathing and surface water, water leachate	A
36	Enumeration of culturable micro-organisms by inoculation in a nutrient agar culture medium	SOP 36/1 (ČSN EN ISO 6222)	Drinking, bathing and surface water, water leachate	A
37	Detection and enumeration of *Clostridium perfringens* (including spores) by a membrane filtration method	SOP 37/1 (Decree No. 252/2004 Coll., Appendix No. 6)	Drinking and surface water, water leachate	A
38	Detection and enumeration of coagulase-positive staphylococci by a membrane filtration method	SOP 38/1 (ČSN EN ISO 6888-1)	Drinking, bathing and surface water, water leachate	A
39	Detection and enumeration of coliform bacteria and *Escherichia coli* by Colilert 18 /Quanti Tray method	SOP 39/1 (ČSN EN ISO 9308-2)	Drinking, bathing and surface water	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
40	Detection and enumeration of Legionella spp. by spread plate method and membrane filtration method	SOP 40/1 (ČSN ISO 11731)	Drinking, bathing, surface and grey water	A
41	Detection and enumeration of coliform bacteria by a membrane filtration method	SOP 41/1 (ČSN 75 7837)	Drinking and surface water	A
42	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by a membrane filtration method	SOP 42/1 (ČSN 75 7835)	Drinking and surface water	A

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

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

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

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

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
16	Li^+, Na^+, K^+, NH_4^+, Mg^{2+}, Ca^{2+}, Cl^-, F^-, Br^-, SO_2^-, NO_2^-, NO_3^-, PO_4^{3-}, BrO_3^-, ClO_2^-, ClO_3^-
17	benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, dibenzo(a,h)anthracene, flouranthene, chrysene, indeno(1,2,3-c,d)pyrene, pyrene and calculation of the sum of PAH
18	1,1-dichloroethene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-*trans*dichloroethene, 1,3,5-trichlorobenzene, 1,4-dichlorobenzene, benzene, bromodichloromethane, chloroform, bromoform, chlorobenzene, dibromochloromethane, dichloromethane, ethylbenzene, m-xylene, o-xylene, p-xylene, tetrachloroethene, tetrachloromethane, toluene, trichloroethene, styrene, methyl*tert*butyl ether and calculation of the sum of THM
19	appearance, foam and surface film, colour, turbidity, transparency, odour, taste

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested object)
1-25, 28, 30-32, 34-42	drinking water – includes, in addition to drinking water, e.g. bottled water (bottled drinking water, spring water, infant water, natural mineral water) and hot water

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Ordinal test number	Detailed information on activities within the scope of accreditation (tested object)
1, 2, 7-10, 12, 15, 20-31, 34-42	surface water – natural and artificial water reservoirs, water streams
1-8, 10, 11, 1 3-18, 20-25, 31, 33-38	bathing water – artificial water reservoirs (swimming and bathing pools, pools for infants, sauna cooling pools) and natural bathing places and other surface water for bathing
3, 4, 10, 12, 14-16, 18, 19, 26, 27, 29, 31, 34-36, 38-40	water leachate – water leachates and other aqueous samples from products in direct contact with water and for water treatment according to Decree No. 409/2005 Coll. (including equipment for the treatment of drinking water at the point of consumption and chemical substances and chemical mixtures intended for the conversion of water into drinking or hot water)
40	grey water - municipal wastewater (usually from kitchens, bathrooms and laundries) without significant faecal and urine content

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Sampling of drinking water	SOP 1/Sampling /1 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree no. 252/2004 Coll.; ČSN 75 7712)	Drinking water
2	Sampling of bathing water	SOP 2/Sampling/1 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree no. 238/2011 Coll.; ČSN 75 7717; ČSN 75 7737)	Bathing water

[1] if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest edition of the specified procedure is used (including any changes)

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of sampling)
1	drinking water – includes, in addition to drinking water, e.g. bottled water (bottled drinking water, spring water, infant water, natural mineral water) and hot water
2	bathing water – artificial water reservoirs (swimming and bathing pools, pools for infants, sauna cooling pools) and natural bathing places and other surface water for bathing

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2. **Laboratory of Air Quality**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of nitrogen oxides (NO, NO_2 and NO_x) by automatic analyzer by chemiluminescence method	SOP 1/1.2 (ČSN EN 14211)	Ambient and indoor air	-
2*	Determination of sulphur dioxide (SO_2) by automatic analyzer by UV fluorescence method	SOP 2/1.2 (ČSN EN 14212)	Ambient and indoor air	-
3*	Determination of carbon monoxide (CO) by automatic analyser by infrared spectrometry method	SOP 3/1.2 (ČSN EN 14626)	Ambient and indoor air	-
4*	Determination of ozone (O_3) by automatic analyzer by UV photometry method	SOP 4/1.2 (ČSN EN 14625)	Ambient and indoor air	-
5*	Determination of suspended particles by automatic analyzer by β-radiation absorption method	SOP 5/2 (Instruction of company Horiba)	Ambient air	-
6*	Measurement of temperature	SOP 6A/2 (Instruction of company Horiba)	Ambient air	-
7*	Measurement of barometric pressure	SOP 7/2 (Instruction of company Horiba)	Ambient air	-
8*	Measurement of relative humidity	SOP 6B/2 (Instruction of company Horiba)	Ambient air	-
9	Determination of suspended particles by gravimetry	SOP 9B/2 (ČSN EN 12341; ČSN EN 14907)	Ambient and indoor air	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
10	Determination of polycyclic aromatic hydrocarbons by GC-MS method	SOP 10B/2 (ISO 12884; ČSN EN 15549; ČSN P CEN/TS 16645)	Ambient and indoor air	B
11	Determination of volatile organic compounds by solvent desorption and GC-MS method	SOP 11B/2 (ČSN EN 14662-2; ČSN EN 14662-5; ISO 16200-2)	Ambient and indoor air	B
12*	Determination of the number of particles and mass concentration of suspended particles by nephelometric method	SOP 12/2 (Instruction of company Grimm, PMS)	Ambient and indoor air	-
13	Determination of aldehydes and ketones by GC-MS method	SOP 13B/2 (ISO 16000-3; ISO 16000-4)	Ambient and indoor air	B
14*	Measurement of microclimatic parameters and carbon dioxide (CO_2) by NDIR method by Testo instrument	SOP 14/2 (Instruction of company Testo)	Ambient and indoor air	-
15	Determination of volatile organic compounds by thermal desorption and GC-MS method	SOP 15B/2 (ČSN EN ISO 16017-1; ISO 16000-6)	Ambient and indoor air	B

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5	PM_{10}, TSP
9	PM_1, $PM_{2,5}$, PM_{10}, TSP
10	phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(j)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene, indeno(1,2,3,c,d)pyrene
11	benzene, toluene, xylene, styrene, ethylbenzene, trichloroethylene, tetrachloroethylene, pinene, 2-ethylhexanol, limonene
12	particle size 0.2 – 32 µm, including inhalable, thoracic, alveolic, PM_1, $PM_{2,5}$, PM_{10}, TSP
13	formaldehyde, acetaldehyde, acetone
14	microclimatic parameters - temperature, humidity
15	benzene, toluene, ethylbenzene, p-xylene, o-xylene, styrene, trichloroethene, tetrachloroethene, 2-ethylhexanol, isopropanol, dichloroethene (1,1), methyl-t-buthylether, vinylacetate, hexane, chloroform, chlorobenzene, dichlorobenzene, naphthalene, phenol, ε- caprolactam, acrylonitril, o-cresol, p-cresol

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Sampling for determination of suspended particles on filter	SOP 9A/2 (ČSN EN 12341; Digitel and Sven Leckel Instructions)	Ambient and indoor air
2	Sampling for determination of polyaromatic hydrocarbons on filter	SOP 10A/2 (ISO 12884; ČSN EN 15549)	Ambient and indoor air
3	Sampling for the determination of volatile organic compounds – active sampling by sorption tube or diffusive sampling for the solvent desorption method	SOP 11A/2 (ČSN EN ISO 16000-5; ČSN EN 14662-5)	Ambient and indoor air
4	Sampling for determination of aldehydes and ketones – active sampling by sorption tube or diffusive sampling	SOP 13A/2 (ČSN EN ISO 16000-2; ISO 16000-4)	Ambient and indoor air

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Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
5	Sampling for the determination of volatile organic compounds – active sampling by sorption tube for the thermal desorption method	SOP 16A/2 (ČSN EN ISO 16017-1)	Ambient and indoor air

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3. **Laboratory for Chemical Safety of Products**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of overall migration into food simulants by gravimetry	SOP 1/3 (ČSN EN 1186-1; ČSN EN 1186-3)	Plastic materials and articles intended to come into contact with foodstuffs	-
2	Determination of elements in leach from silicate products by flame atomic absorption spectrometry (FAAS)	SOP 2/3 (ČSN EN 1388-1; ČSN EN 1388-2)	Silicate-based materials and articles intended to come into contact with foodstuffs	-
3	Determination of some banned and other regulated compounds by GC-MS method	SOP 12/3	Water dilutable rinse-off cosmetic product	-
4	Determination of nicotine by GC-MS method	SOP 15/3 (ČSN EN ISO 20714)	Refill liquid for e-cigarette	-
5	Determination of dialkyl phthalates by GC-MS method	SOP 3/3	Plastic materials	-
6	Determination of the emission of volatile organic compounds (VOC) using a test chamber by GC-MS method	SOP 5/3 (ČSN EN 14662-2; ČSN EN ISO 16000-9; ČSN EN ISO 16000-11; ČSN EN 16516+A1)	Construction products and products intended for use in building interiors	-
7	Determination of the emission of formaldehyde using a test chamber by HPLC-DAD method	SOP 6/3 (ISO 16000-3; ČSN EN ISO 16000-9; ČSN EN ISO 16000-11; ČSN EN 16516+A1)	Construction products and products intended for use in building interiors	-
8	Determination of carboxylic acids in food simulants by HPLC-DAD /MS method	SOP 8/3 (ČSN EN 13130-2; ČSN EN 13130-1)	Plastic materials and articles intended to come into contact with foodstuffs	-
9	Determination of melamine in food simulants by HPLC-DAD/MS method	SOP 9/3 (ČSN P CEN/TS 13130-27; ČSN EN 13130-1)	Plastic materials and articles intended to come into contact with foodstuffs	-
10	Determination of primary aromatic amines in food simulants by HPLC-MS method	SOP 10/3 (ČSN EN 13130-1)	Plastic materials and articles intended to come into contact with foodstuffs	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
11	Determination of allergens by GC-MS method	SOP 11/3 (ČSN EN 16274)	Perfumes, toilet waters and other cosmetics in ethanol matrix	-
12	Determination of monomers, starting substances and additives used in plastics in food simulants by GC-MS method	SOP 14/3 (ČSN EN 13130-1)	Plastic materials and articles intended to come into contact with foodstuffs	-

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

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
2	cadmium, lead
3	trans-2-heptenal, 1,4-dichlorobenzene, benzyl chloride, dimethyl citraconate, diethyl maleate, benzyl cyanide, naphthalene, safrole, 2-pentylidene cyclohexanone, hexahydrocoumarin, 3,4-dihydrocoumarin, diphenylamine, anisylidene acetone, alpha-methylanisylidene acetone, methylanisiliden acetone, musk ambrette, moskene, 7-methoxycoumarin, 4,6-dimethyl-8-tertbutylcoumarin, musk tibetene, 7-ethoxy-4-methylcoumarin
5	diisobutyl-phthalate, di-n-butyl phthalate, benzyl butyl phthalate, di-(2-ethylhexyl) phthalate, di-n-octyl phthalate, di-isononyl phthalate, di-isodecyl phthalate
6	benzene, toluene, ethylbenzene, p-xylene, o-xylene, styrene, trichlorethene, tetrachlorethene
8	phthalic acid, terephthalic acid, isophthalic acid, 2,6-naphthalenedicarboxylic acid
10	2-naphtylamine, 4,4'-methylenedianiline, aniline, *o*-anisidine, *o*-toluidine
11	d-limonene, benzyl alcohol, linalool, methyl 2-octynoate, citronellol, geraniol, citral, hydroxycitronellal, anise alcohol, cinnamyl alcohol, eugenol, coumarin, isoeugenol alpha-isomethyl ionone, butylphenyl methylpropional, amyl cinnamal, amylcinnamyl alcohol, farnesol, benzyl benzoate, hexyl cinnamal, benzyl salicylate, benzyl cinnamate, cinnamal, hydroxyisohexyl 3-cyclohexene carboxaldehyde

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
12	phenol, 2-ethylhexan-1-ol, 1,4-dichlorobenzene, o-cresol, p-cresol, methyl-salicylate, 2,2,4,4-tetramethyl cyclobutane-1,3-diol (mixture of isomers), 1,4-bis(hydroxymethyl) cyclohexane (mixture of isomers), buthylhydroxytoluene, dimethyl-terephthalate, benzophenone, diisobutyl-phthalate, laurolactam, dibutyl-phthalate, dibutyl-sebacate, tributyl-O-acetylcitrate, bis(2-ethylhexyl)-adipate, benzyl-buthyl-phthalate, bis(2-ethylhexyl)-phthalate, bis(2-ethylhexyl)-iso phthalate, bis(2-ethylhexyl)-tere phthalate, dioctyl-phthalate, erucylamide, 2-hydroxy-4-(octyloxy)benzophenone

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food as amended
3	Lv, Q., Zhang, Q., Li, W., Li, H., Li, P., Ma, Q., Meng, X., Qi, M. and Bai, H. (2013), Determination of 48 fragrance allergens in toys using GC with ion trap MS/MS. J. Sep. Science, 36: 3534–3549.; Haifeng Dong, Hua Tang, Dazhou Chen, Ting Xu, Lei Li, Analysis of 7 synthetic musks in cream by supported liquid extraction and solid phase extraction followed by GC–MS/MS, Talanta, Volume 120, March 2014, Pages 248-254.
5	Biedermann-Brem Sandra, Biedermann Maurus, Fiselier Katell, Grob Koni: Compositional GC-FID analysis of the additives to PVC, focusing on the gaskets of lids for glass jars, Food Additives and Contaminants, 2005 Dec, 22 (12), 1274-84.
8	Commission Regulation (EC) 10/2011 on plastic materials and articles intended to come into contact with food as amended
9	Commission Regulation (EC) 10/2011 on plastic materials and articles intended to come into contact with food as amended; Bradley, E.L.et al.: Survey of the migration of melamine and formaldehyde from melamine food contact articles available on the UK market, Food Addit.Contam.2005,22(6),597-606.
10	Commission Regulation (EC) 10/2011 on plastic materials and articles intended to come into contact with food as amended; Proposed standard operating procedure for primary aromatic amines from food contact materials from aqueous acidic stimulant, CRL, 2010.; A 4-year rolling programme of surveys on chemical migrants from food contact materials and articles, survey 2: primary aromatic amine migration from nylon kitchen utensils, Food standard agency, 2010.
12	Commission Regulation (EC) 10/2011 on plastic materials and articles intended to come into contact with food as amended; Tsochatzis, Emmanouil D., Joao Alberto Lopes, Helen Gika, Trine Kastrup Dalsgaard and Georgios Theodoridis. A fast SALLE GC–MS/MS multi-analyte method for the determination of 75 food packaging substances in food simulants. *Food Chemistry* [online]. 2021, **361** [cit. 2022-09-06]. ISSN 03088146. Available at: doi:10.1016/j.foodchem.2021.129998

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4. **Laboratory for Trace Element Analysis**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of trace elements by flame AAS method	SOP 1A/4	Biological material	A, B
2	Determination of trace elements by flame AAS method	SOP 1B/4 (ČSN ISO 9964-1; ČSN ISO 9964-2; ČSN ISO 7980)	Drinking, surface and bottled water, water leachate	A, B
3	Determination of trace elements by flameless AAS method	SOP 2A/4 (ČSN EN ISO 15586; TNV 75 7408)	Drinking, surface and bottled water, water leachate	A, B
4	Determination of trace elements by flameless AAS method	SOP 2B/4	Biological material	A, B
5	Determination of trace elements by ICP-MS method	SOP 3A,D/4 (ČSN EN ISO 17294-1; ČSN EN ISO 17294-2)	Biological material, cosmetic products, food supplements	A, B
6	Determination of trace elements by ICP-MS method	SOP 3B/4 (ČSN EN 14902)	Air	B
7	Determination of trace elements by ICP-MS method	SOP 3C/4 (ČSN EN ISO 17294-1; ČSN EN ISO 17294-2)	Drinking, surface and bottled water, water leachate	A, B
8	Determination of Hg by analyzer AMA 254	SOP 4/4 (ČSN 75 7440)	Drinking, surface and bottled water, water leachate, biological material, cosmetic products, food supplements, air	A
9	Determination of creatinine by spectrophotometry	SOP 5/4	Urine	-

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

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

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	copper, zinc
2	sodium, potassium, magnesium, calcium
3	silver, aluminium, arsenic, barium, beryllium, cadmium, chromium, copper, iron, manganese, nickel, lead, antimony, selenium
4	chromium, nickel
5	chromium, cadmium, cobalt, nickel, lead, platinum, iodine in biological material cadmium, chromium, nickel and lead in cosmetic products cadmium, lead in food supplements
6	arsenic, cadmium, chromium, manganese, nickel and lead
7	silver, aluminium, arsenic, boron, barium, beryllium, cadmium, chromium, copper, iron, manganese, nickel, lead, antimony, selenium, cobalt, uranium

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 4, 5, 8	biological material (blood, blood serum, blood plasma, urine, tissue, hair)
2, 3, 7, 8	water leachate (products coming into contact with water and for water treatment, food contact materials, toys and products for children up to 3 years)
6	air (aerosol particles with sampling in defined fractions, dust)

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Analytical Methods for AAS, Perkin-Elmer Manual 0303-0152
4	The THGA Graphite Furnace, Perkin-Elmer Manual B050-5538
9	Jaffé without deproteinization, D.Szadovski ad. Z. Klin. Chem. Klin. Biochem. 8, (1970) 529

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5. **Laboratory for the Assessment of Special Types of Foods**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of sweeteners in foodstuffs by HPLC-DAD method	SOP 1/5 (ČSN EN 12856)	Food products	-
2	Determination of preservatives by HPLC-DAD method	SOP 2/5	Food products	-
3	Determination of polycyclic aromatic hydrocarbons by HPLC-FLD method and their sums by calculation	SOP 4/5	Dried herbal mixtures, food supplements of vegetable origin	-
4	Determination of stevioside and rebaudioside A by HPLC-DAD method	SOP 6/5	Food products	-

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[3] degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method
The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	acesulfame K, saccharin (as a free imid), aspartame
2	benzoic acid, sorbic acid, methyl-, ethyl- and propyl para-hydroxybenzoate (resp. methyl-, ethyl- and propyl paraben)
3	benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Journal of AOAC Vol. 68, No.3, 1985
2	Food Chemistry 115 (2009) 814-819
3	Journal of Chromatography A 1217 (2010), 474 (1989), Journal of AOAC International Vol. 90, No.5, 2007

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6. **Laboratory for Physical Factors**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Measurement of daylight	SOP 1/6 (ČSN 36 0011-1; ČSN 36 0011-2)	Indoor and outdoor environment	-
2*	Measurement of carbon dioxide (CO_2) concentration by NDIR method by Testo instrument	SOP 2/6 (Manual comp.Testo)	Indoor and outdoor environment	-
3*	Measurement of low frequency magnetic field in the near field of the source in the frequency interval 0 Hz - 10 MHz	SOP 3/6 (GR No. 291/2015 Coll., MoH CR Guideline, 2017, part 8)	Indoor and outdoor environment	-
4*	Measurement of high frequency electromagnetic field in the far field in the frequency interval over 10 MHz	SOP 4/6 (GR No. 291/2015 Coll., MoH CR Guideline, 2017, part 8)	Indoor and outdoor environment	-
5*	Measurement of microclimate parameters	SOP 5/6 (ČSN EN ISO 7726 MoH CR Guideline, 2013, part 8)	Indoor and working environment	-
6*	Measurement of the number of solid aerosol particles in the air by nephelometric method	SOP 6/6 (ČSN EN 14644-1)	Cleanrooms and controlled environment	-
7*	Measurement of artificial lighting	SOP 7/6 (ČSN 36 0011-1; ČSN 36 0011-3; ČSN 36 0011-4)	Indoor and outdoor environment	-
8*	Determination of dust content by gravimetric method	SOP 8B/6 (GR No. 361/2007 Coll.)	Working environment	-
9*	Evaluation of non-ionising electromagnetic field	SOP 9/6 (GR No. 291/2015 Coll., MoH CR Guideline, 2017, part 8)	Indoor and outdoor environment	-

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

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

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5	resulting temperature of spherical thermometer, temperature, relative humidity, air flow velocity
8	total airborne dust, respirable fraction

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Sampling of dust (total and respirable dust)	SOP 8A/6 (GR No. 361/2007 Coll.; ČSN EN 481)	Working environment

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7. Laboratory for the Assessment of Occupational Exposure to Chemicals

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acids by HPLC-DAD method	SOP 1/7	Urine	-
2	Determination of *t,t*-muconic acid and 2-thio-thiazolidine-4-carboxylic acid (TTCA) by HPLC-DAD method	SOP 2/7	Urine	-
3	Determination of butoxyacetic acid, ethoxyacetic acid and methoxyacetic acid by GC-MS method	SOP 3/7	Urine	-
4	Determination of phenol and *o*-cresol by GC-MS method	SOP 4/7 (NIOSH 8305)	Urine	-
5	Determination of creatinine by HPLC-DAD method	SOP 5/7	Urine	-
6	Determination of diisocyanates by HPLC-DAD method	SOP 6/7 (OSHA 5002)	Workplace air	-
7	Determination of N-(2-hydroxyethyl)valine as an indicator of ethylene oxide exposure by HPLC-MS method	SOP 7/7	Blood	-
8	Determination of diamines by GC-MS method	SOP 8/7	Urine	-
9	Determination of trichloroacetic acid (TCA) by GC-MS method	SOP 9/7 (NIOSH 8322)	Urine	-

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

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
6	4,4′-methylene diphenyl diisocyanate (4,4′-MDI); 2,4-toluene diisocyanate (2,4-TDI); 2,6-toluene diisocyanate (2,6-TDI); 1,6-hexamethylene diisocyanate (1,6-HDI)
8	4,4′-diaminodiphenylmethane; 2,4-toluenediamine; 2,6-toluenediamine; 1,6-hexamethylenediamine

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	I. Šperlingová, L. Dabrowská, V. Stránský, M. Tichý: A rapid HPLC method for the determination of carboxylic acids in human urine using monolithic column, Analytical and Bioanalytical Chemistry, 378, 536-543, 2004
2	Goen T, Bader M: Biomonitoring Methods, WILEY-VCH Verlag GmbH & CoKGaA, Weinheim Volume 10, 129-155, 2006
3	Goen T, Bader M: Biomonitoring Methods, WILEY-VCH Verlag GmbH & CoKGaA, Weinheim Volume 10, 61-80, 2006
5	P. Schneiderka, V. Pacáková, K. Štulík, K. Jelínková: A HPLC determination of creatinine in serum, J. Chromatogr.: 614, 221, 1993
7	Mráz J., Hanzlíková I., Dušková Š., Tvrdíková M., Chrástecká H., Vajtrová R., Linhart I.: Determination of N-(2-hydroxyethyl)valine in globin of ethylene oxide-exposed workers using total acidic hydrolysis and HPLC-ESI-MS2; Toxicol. Lett. 298, 76-80, 2018
8	Angerer J., Schaller K. H.: Analyses of Hazardous Substances in Biological Materials, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim Volume 4, 67-105, 1994

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8. **Laboratory for Microbiology of Consumer Products, Special Types of Foods and Environment**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Enumeration of aerobic mesophilic bacteria by spread plate method and membrane filtration method	SOP 1/8 (ČSN EN ISO 21149; ČSN EN ISO 21322)	Cosmetic products and medical devices, consumer products	-
2	Detection of *Pseudomonas aeruginosa* by spread plate method	SOP 2/8 (ČSN EN ISO 22717; ČSN EN ISO 21322)	Cosmetic products and medical devices, consumer products	-
3	Detection of *Staphylococcus aureus* by spread plate method	SOP 3/8 (ČSN EN ISO 22718; ČSN EN ISO 21322)	Cosmetic products and medical devices, consumer products	-
4	Detection of *Candida albicans* by spread plate method	SOP 4/8 (ČSN EN ISO 18415, cl. 9.8; ČSN EN ISO 21322)	Cosmetic products and medical devices, consumer products	-
5	Detection of *Escherichia coli* by spread plate method	SOP 5/8 (ČSN EN ISO 21150; ČSN EN ISO 21322)	Cosmetic products and medical devices, consumer products	-
6	Enumeration of yeasts and moulds by spread plate method and membrane filtration method	SOP 6/8 (ČSN EN ISO 16212; ČSN EN ISO 21322)	Cosmetic products and medical devices, consumer products	-
7	Measurement of antibacterial activity on materials by culture method	SOP 7/8 (ISO 22196; ČSN EN ISO 20743, cl. 8.1)	Plastics and other non-porous materials, textile materials	-
8	Determination of antimicrobial efficacy of preservation of cosmetic products	SOP 8/8 (ČSN EN ISO 11930, Annex B)	Cosmetic products and medical devices	-

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9. **Laboratory of Soil and Waste Hygiene**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of the acute lethal toxicity to a freshwater fish - semi-static method	SOP 1/9 (ČSN EN ISO 7346-2)	Chemical compounds, ground, surface, porous, grey and waste water, water leachate	-
2	Determination of the inhibition of the mobility of *Daphnia magna* - acute toxicity	SOP 2/9 (ČSN EN ISO 6341)	Chemical compounds, ground, surface, porous, grey and waste water, water leachate	-
3	Freshwater algal growth inhibition test	SOP 3/9 (ČSN EN ISO 8692)	Chemical compounds, ground, surface, porous, grey and waste water, water leachate, disinfectants	-
4	White mustard root growth inhibition test	SOP 4/9 (Guideline 8; MoE CR Bulletin, volume XVII, No. 4/2007)	Chemical compounds, ground, surface, porous, grey and waste water, water leachate	-
5	Detection of *Salmonella* by culture method	SOP 5/9 (AHEM č. 7/2001; AHEM č. 1/2008)	Sludge, sediments and treated bio-waste, sand from sandpits of playgrounds, fertilizers, substrates, peat, soil	A
6	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by culture method	SOP 6/9 (AHEM č. 7/2001; AHEM č. 1/2008)	Sludge, sediments and treated bio-waste, sand from sandpits of playgrounds, fertilizers, substrates, peat, soil	A
7	Detection and enumeration of intestinal enterococci by culture method	SOP 7/9 (AHEM č. 7/2001; AHEM č. 1/2008)	Sludge, sediments and treated bio-waste, sand from sandpits of playgrounds, fertilizers, substrates, peat, soil	A
8	Detection and enumeration of *Clostridium perfringens* and other clostridia by culture method	SOP 8/9	Sludge, sediments and treated bio-waste, fertilizers, substrates, peat, sand from sandpits of playgrounds, soil	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
9	Determination of thermotolerant coliform bacteria and *Escherichia coli* by Colilert method	SOP 27/9	WWTP sludge, sediments and treated bio-waste, fertilizers, substrates, peat, soil	A
10	Determination of the inhibitory effect on the light emission of *Aliivibrio fischeri*	SOP 25/9 (ČSN EN ISO 11348-2)	Chemical compounds, ground, surface, porous, grey and waste water, water leachate	-
11	Determination of the effectiveness of sanitation and decontamination by indicator organisms	SOP 11/9 (AHEM č. 1/2008)	Waste, treated waste, equipment, healthcare waste	-
12	Determination of viable microbes by swabs and contact plates	SOP 14/9	Machinery and equipment of biogas units, composting facilities, apparatus for decontamination of waste from healthcare facilities, surfaces of rooms and equipment of medical facilities, surfaces of interior spaces	-
13	Growth inhibition test of *Lactuca sativa* salad root	SOP 26/9 (ČSN EN ISO 11269-1)	Wastes, treated wastes, chemical compounds, soil, sediments, composts and sludges	-
14	Detection and enumeration of the *Salmonella* spp. by membrane filtration method	SOP 28/9	Sludge, sediments and treated bio-waste, fertilizers, substrates, peat, soil	A

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1-4, 10	water leachate – water leachate of solid materials according to EN 12457-4 and AHEM No. 3/2001 (waste, soil, sludge, sediment, building material, building product and similar matrices)
1-4, 10	grey water – domestic wastewater without faeces and urine

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
8, 9	R&D project of the Ministry of Environment SPII2f1/32/07 "Selection of a method for the determination of indicator organisms for the assessment of health and environmental impacts of biodegradable waste management"
12	ČSN ISO 18593 (560626) Microbiology of the food chain Horizontal methods for surface sampling using contact plates and swabs
14	Project Horizontal – Hygiene standards, contract n° SSPI-CT-2003-502411 - Soils, sludges and treated bio-wastes — Detection and enumeration of *Salmonella* spp. in sludges, soils and organic fertilisers of similar consistency to the matrices validated – Part 1 : Membrane filtration method for quantitative resuscitation of sub-lethally stressed bacteria

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
1	Sampling methods for microbiological analyses	SOP 12/9 (Instruction HH ČR for the implementation of uniform system for checking of sandpits in playgrounds No.: MZ 35023/2004 HEM)	Soil, sand
2	Sampling	SOP 13/9 (ČSN EN ISO 5667-13; ČSN EN 14899)	Biowaste, sludge, sediments and treated biowaste

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

Státní zdravotní ústav
CAB number 1206, Centre for Laboratory Testing
Šrobárova 49/48, 100 00 Praha 10 – Vinohrady

10. **Laboratory of Toxicology**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of in vitro cytotoxicity in cell culture	SOP 1/10 (ČSN EN ISO 10993-5, cl. 1, 2, 3, 4, 5, 6, 7, 8.1, 8.2, 8.3, 8.5, 9, 10, Annex A)	Medical devices, chemicals, cosmetic products, consumer products, products for children under 3 years of age, personal protective devices, toys	-
2	Determination of skin sensitization potential by local lymph node examination - LLNA:DA (ATP content measurement)	SOP 2/10 (ČSN EN ISO 10993-10, cl. 1, 2, 3, 4, 5, 6, 6.1, 6.2, 7. Annex A, B, D; OECD TG 442A)	Medical devices, consumer products, chemicals	-
3	Determination of skin application tolerance in a group of volunteers	SOP 3/10 Cosmetic Product Test Guidelines for the Assessment of Human Skin Compatibility (COLIPA, 1997)	Medical devices,, chemical substances, cosmetic products, consumer products, products for children up to 3 years, personal protective equipment, toys	-
4	Determination of free and hydrolyzed formaldehyde - water extraction method	SOP 4/10 (ČSN EN ISO 14184-1)	Medical devices,, chemical substances, cosmetic products, consumer products, products for children up to 3 years, personal protective equipment, toys	-
5	Determination of pH by potentiometry	SOP 5/10 (ČSN 68 1504; ČSN 68 1151; ČSN 68 1512; ČSN ISO 11609; ČSN ISO 4045; ČSN EN ISO 3071)	Medical devices, chemicals, cosmetic products, products for children under 3 years of age, personal protective devices, toys	-
6	Determination of chromosome aberrations in vitro - microscopically	SOP 6/10 (OECD TG 473)	Chemical substances, human blood	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
7	Determination of reverse mutations on bacterial strains - by culture method	SOP 7/10 (OECD TG 471)	Chemical substances, consumer products, medical devices, samples of drinking, surface and waste water	-
8	Determination of in vivo irritation by animal application	SOP 8/10 (ČSN EN ISO 10993-23, clauses 1, 2, 3, 4, 5, 7, Annex A, Annex D - clause D.2)	Medical devices, consumer products, chemicals	-
9	Determination of in vitro irritation by application to reconstructed human epidermis models	SOP 9/10 (ISO 10993-23, clauses 1, 2, 3, 4, 5, 6, Annexes A, B, C)	Medical devices, consumer products, chemicals	-
10	Determination of irritation by in vivo application in a group of volunteers	SOP 10/10 (ČSN EN ISO 10993-23, clauses 1, 2, 3, 4, 5, 8, Annex A, Annex E)	Medical devices, consumer products, chemicals	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

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

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

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

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
3	COLIPA - The European Cosmetic, Toiletry and Perfumery Association
7	Act No. 254/2001 Coll. on water Act No. 258/2000 Coll. on public health protection

Explanatory notes:

AAS	Atomic Absorption Spectrometry
AMA	Single-Purpose Atomic Absorption Spectrometer
GC-FID	Gas Chromatography-Flame-ionization detector
GC-PID	Gas Chromatography-Photo-ionization detector
GC-ECD	Gas Chromatography-Electron capture detector

Český institut pro akreditaci, o.p.s.
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GC-MS	Gas Chromatography-Mass Spectrometry
ICP-MS	Inductive Coupled Plasma-Mass Spectrometry
HPLC-DAD	High performance liquid chromatography-Diode-array detector
HPLC-FLD	High performance liquid chromatography- Fluorescence detector
HPLC-MS	High performance liquid chromatography- Mass Spectrometry
NDIR	Non-Dispersive InfraRed
PBU	Consumer Products
IR	InfraRed