The Appendix is an integral part of
Certificate of Accreditation No.: 561/2022 of 24/11/2022

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

Státní zdravotní ústav
Centre for Laboratory Testing
Šrobárova 49/48, 100 00 Praha 10

Testing laboratory workplaces:

1.1	**Laboratory of Water Quality**	Šrobárova 49/48, 100 00 Prague 10
1.2	**Laboratory of Air Quality**	Šrobárova 49/48, 100 00 Prague 10
1.3	**Laboratory for Chemical Safety of Products**	Šrobárova 49/48, 100 00 Prague 10
1.4	**Laboratory for Trace Element Analysis**	Šrobárova 49/48, 100 00 Prague 10
1.5	**Laboratory for the Assessment of Special Types of Foods**	Šrobárova 49/48, 100 00 Prague 10
1.6	**Laboratory for Physical Factors**	Šrobárova 49/48, 100 00 Prague 10
1.7	**Laboratory for the Assessment of Occupational Exposure to Chemicals**	Šrobárova 49/48, 100 00 Prague 10
2.2	**Laboratory for Microbiology of Foods, Everyday Items and Environment**	Šrobárova 49/48, 100 00 Prague 10
2.3	**Laboratory of Soil and Waste Hygiene**	Šrobárova 49/48, 100 002 Prague 10
3	**Laboratories of Toxicology**	Šrobárova 49/48, 100 00 Prague 10

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

The updated list of activities provided within the flexible scope of accreditation is available in the laboratory at the Quality Manager.

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

The laboratory is qualified to perform separate sampling.

1.1 Laboratory of Water Quality

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
1	Determination of ammonium (NH_4^+) by spectrophotometry	SOP 1/1.1 (ČSN ISO 7150-1)	Drinking and surface water, water leachate
2	Determination of colour by spectrophotometry	SOP 2/1.1 (ČSN EN ISO 7887)	Drinking and surface water, water leachate
3	Determination of total organic carbon (TOC) by analyzer	SOP 3/1.1 (ČSN EN 1484)	Drinking and bathing water, water leachate
4	Determination of nitrate by spectrophotometry	SOP 4/1.1 (ČSN ISO 7890-3)	Drinking and bathing water, water leachate
5	Determination of nitrite by spectrophotometry	SOP 5/1.1 (ČSN EN 26777)	Drinking water, water leachate
6	Determination of chemical oxygen demand using permanganate (COD_{Mn}) by titration	SOP 6/1.1 (ČSN EN ISO 8467)	Drinking water, water leachate

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
7	Determination of chlorides by titration	SOP 7/1.1 (ČSN ISO 9297)	Drinking and surface water, water leachate
8	Determination of electrical conductivity	SOP 8/1.1 (ČSN EN 27888)	Drinking and surface water, water leachate
9	Determination of iron by spectrophotometry	SOP 9/1.1 (ČSN ISO 6332)	Drinking and surface water
10	Determination pH	SOP 10/1.1 (ČSN ISO 10523)	Drinking, bathing and surface water, water leachate
11	Determination of the threshold odour number (TON) and threshold flavour number (TFN)	SOP 11B/1.1 (ČSN EN 1622)	Drinking water, water leachate
12*	Determination of temperature	SOP 12/1.1 (ČSN 75 7342)	Drinking, bathing and surface water
13	Determination of the sum of calcium and magnesium by titration, calcium by titration and magnesium by calculation from measured values	SOP 13/1.1 (ČSN ISO 6058, ČSN ISO 6059)	Drinking water, water leachate
14 *	Determination of free, bound and total chlorine by spectrophotometry by HACH set	SOP 14/1.1 (HACH manual)	Drinking and bathing water, water leachate
15	Determination of turbidity by turbidimetry	SOP 15/1.1 (ČSN EN ISO 7027)	Drinking, bathing and surface water, water leachate
16	Determination of cations and anions by ion chromatography[16]	SOP 16/1.1 (US EPA Met. 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
17-18	Reserved		
19	Determination of polyaromatic hydrocarbons (PAH) by GC/MS[19]	SOP 19/1.1 (ČSN 75 7554)	Drinking water, water leachate
20	Determination of volatile organic compounds by GC/FID/ECD with P&T thermal desorption[20]	SOP 20/1.1 (ČSN EN ISO 10301)	Drinking and bathing water, water leachate

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
21*	Preliminary sensory analysis[21]	SOP 11A/1.1 (ČSN 75 7340)	Drinking and bathing water
22	Determination of single-phase phenols volatile with water vapor by spectrophotometry	SOP 22/1.1 (ČSN 83 0520-26:1977)	Drinking and surface water, water leachate
23	Determination of silicon by spectrophotometry and calculation of SiO_2	SOP 23/1.1 (ČSN 75 7481)	Drinking and surface water, water leachate
24	Determination of base neutralizing capacity (ZNK8.3) by titration and calculation of free carbon dioxide	SOP 24/1.1 (ČSN 75 7372, ČSN 75 7373)	Drinking and surface water, water leachate
25	Determination of acid neutralizing capacity (ANC4.5) by titration and calculation of hydrogen carbonate	SOP 25/1.1 (ČSN EN ISO 9963-1, ČSN EN ISO 9963-2, ČSN 75 7373)	Drinking and surface water, water leachate
26	Determination of dissolved solids by gravimetry	SOP 26/1.1 (ČSN 757346)	Drinking and surface water, water leachate
27-30	Reserved		
31	Detection and enumeration of intestinal enterococci by a membrane filtration method	SOP 31/1.1 (ČSN EN ISO 7899-2)	Drinking, bathing and surface water, water leachate
32	Detection and enumeration *Clostridium perfringens* (including spores) by a membrane filtration method	SOP 32/1.1 (ČSN EN ISO 14189)	Drinking water
33	Determination of ATP by luminescence measurement	SOP 33/1.1 (ČSN EN 16421)	Water, biofilm, water leachate
34	Detection and enumeration of *Pseudomonas aeruginosa* by a membrane filtration method	SOP 34/1.1 (ČSN EN ISO 16266)	Drinking, bathing and surface water, water leachate
35	Detection and enumeration of *Escherichia coli* and coliform bacteria by a membrane filtration method	SOP 35/1.1 (ČSN EN ISO 9308-1)	Drinking, bathing and surface water, water leachate
36	Enumeration of culturable micro-organisms by inoculation in a nutrient agar culture medium	SOP 36/1.1 (ČSN EN ISO 6222)	Drinking, bathing and surface water, water leachate

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
37	Detection and enumeration of *Clostridium perfringens* (including spores) by a membrane filtration method	SOP 37/1.1 (Decree No. 252/2004 Coll., Appendix No. 6)	Drinking and surface water, water leachate
38	Detection and enumeration of coagulase-positive staphylococci by a membrane filtration method	SOP 38/1.1 (ČSN EN ISO 6888-1)	Drinking, bathing and surface water, water leachate
39	Detection and enumeration of coliform bacteria and *E.coli* by Colilert 18 / Quanti Tray method	SOP 39/1.1 (ČSN EN ISO 9308-2)	Drinking, bathing and surface water
40	Detection and enumeration of *Legionella* by a membrane filtration method and a spread plate method	SOP 40/1.1 (ČSN ISO 11731)	Drinking, bathing, surface and grey water
41	Detection and enumeration of coliform bacteria in non-disinfected waters by a membrane filtration method	SOP 41/1.1 (ČSN 75 7837)	Drinking and surface water
42	Detection and enumeration of thermotolerant coliform bacteria and *Escherichia coli* by a membrane filtration method	SOP 42/1.1 (ČSN 75 7835)	Drinking and surface water
43	Microscopic analysis of water	SOP 43/1.1 (ČSN 75 7712, ČSN 75 7713)	Drinking and surface water, water leachate
44	Determination of chlorophyll-a by spectrophotometry	SOP 44/1.1 (ČSN ISO 10260)	Bathing and surface water
45	Determination of Cyanobacteria by light microscopy	SOP 45/1.1 (ČSN 75 7717)	Bathing, surface and drinking water
46	Detection and enumeration of the spores of sulfite-reducing anaerobes by a membrane filtration method	SOP 46/1.1 (ČSN EN 26461-2)	Drinking and surface water

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
47	Isolation and identification of *Cryptosporidium* oocysts and *Giardia* cysts from water by filtration, immunomagnetic separation and fluorescence microscopy	SOP 47/1.1 (ISO 15553, US EPA Method 1623)	Drinking and surface water
48	Detection and quantification of *E.coli* by quantitative polymerase chain reaction method (qPCR)	SOP 48/1.1 (USEPA 1609, ISO/TS 12869)	Bathing water, surface water

[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 edition of the specified procedure is used (including any changes)

Notes:
Drinking water – including drinking water and also e.g. bottled water (bottled drinking water, spring water, infant water, natural mineral water) and hot water
Surface water – lakes and artificial reservoirs, running water
Bathing water – artificial reservoirs (swimming and bathing pools, pools for infants, cooling pools in saunas), natural bathing sites

Water leachate - water leachates and other water samples from materials and products in contact with drinking and hot water and for water treatment according to the Decree No. 409/2005 Coll (including devices for water treatment used by consumers and chemical substances used for treatment of drinking and hot water).

Grey water - municipal wastewater (usually from the kitchen, bath and/or laundry) without significant concentrations of excreta and/or urine.

ad 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^-

ad 19 benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, dibenzo(a,h)anthracene, fluoranthene, chrysene, indeno(1,2,3-c,d)pyrene, pyrene and calculation of total PAH

ad 20 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, chlorodibromomethane, dichloromethane, ethylbenzene, m-xylene, o-xylene, p-xylene, tetrachloroethene, tetrachloromethane, toluene, trichloroethene, styrene, methyl*terc*buthylether and calculation of total THM

ad 21 in the scope of visual aspect, foam and surface film, colour, turbidity, transparency, odour, taste

Used abbreviations:
ATP - Adenosine triphosphate
GC/FID/ECD – gas chromatography with flame ionization detector or electron capture detector
P&T – Purge and Trap
GC/MS – gas chromatography - mass spectrometry
PAH – polyaromatic hydrocarbons
THM – trihalogenmethanes
US EPA - United States Environmental Protection Agency

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
1	Sampling of drinking water	SOP 1/Sampling (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 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-14, ČSN EN ISO 19458, Decree no. 238/2011 Coll., as amended, ČSN 75 7717)	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).

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1.2 Laboratory of Air Quality

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
49-50	Reserved		
51*	Determination of nitrogen oxides (NO, NO_2 and NO_x) by analyzer	SOP 1/1.2 (ČSN EN 14211)	Ambient and indoor air
52*	Determination of sulphur dioxide (SO_2) by analyzer	SOP 2/1.2 (ČSN EN 14212)	Ambient and indoor air
53*	Determination of carbon monoxide (CO) by analyzer	SOP 3/1.2 (ČSN EN 14626)	Ambient and indoor air
54*	Determination of ozone (O_3) by analyzer	SOP 4/1.2 (ČSN EN 14625)	Ambient and indoor air
55*	Measurement of temperature	SOP 6A/1.2 (Instruction of company Horiba)	Ambient air
56*	Measurement of relative humidity	SOP 6B/1.2 (Instruction of company Horiba)	Ambient air
57*	Measurement of barometric pressure	SOP 7/1.2 (Instruction of company Horiba)	Ambient air
58*	Reserved		
59	Determination of suspended particles by gravimetry[59]	SOP 9B/1.2 (ČSN EN 12341, ČSN ISO 7708, ČSN EN 14907)	Ambient and indoor air
60	Determination of polycyclic aromatic hydrocarbons by GC/MS[60]	SOP 10B/1.2 (ISO 12884, ČSN EN 15549)	Ambient and indoor air
61	Determination of volatile organic compounds by solvent desorption and GC/MS analysis[61]	SOP 11B/1.2 (ČSN EN 14662-2, ČSN EN 14662-5)	Ambient and indoor air

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
62*	Determination of the number of particles and mass concentration of suspended particles by nephelometry[62]	SOP 12/1.2 (Instruction of company Grimm, Microdust, PMS)	Ambient and indoor air
63	Determination of aldehydes and ketones by GC/MS[63]	SOP 13B/1.2 (ISO 16000-3, ISO 16000-4)	Ambient and indoor air
64*	Measurement microclimate parameters and carbon dioxide (CO_2) by instrument Testo[64]	SOP 14/1.2 (Instruction of company Testo)	Ambient and indoor air
65*	Determination of suspended particles by analyzer – absorption β-radiation[65]	SOP 5/1.2 (Instruction of company Horiba)	Ambient air
66	Determination of volatile organic compounds by thermal desorption and GC/MS analysis[66]	SOP 16B/1.2 (ČSN EN ISO 16017-1, ISO 16000-6)	Ambient and indoor air

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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 edition of the specified procedure is used (including any changes)

Notes:

ad 59 in the scope of particle size PM_1, $PM_{2,5}$, PM_{10}, TSP, inhalable, thoracic, alveolic fraction

ad 60 in the scope of 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

ad 61 in the scope of benzene, toluene, xylene, styrene, ethylbenzene, trichloroethylene, tetrachloroethylene, pinene, 2-ethylhexanol, limonene

ad 62 in the scope of particle size 0.2 – 32 µm, including inhalable, thoracic, alveolic, PM_1, $PM_{2,5}$, PM_{10}, TSP

ad 63 in the scope of formaldehyde, acetaldehyde, acetone

ad 64 in the scope of temperature, humidity, air flow

ad 65 in the scope of PM_{10}, TSP

ad 66 in the scope of benzene, toluene, etylbenzene, p-xylene, o-xylene, styrene, trichloroethene, tetrachloroethene, 2-etylhexanol, isopropanol, dichloroethene (1,1), methyl-t-buthylether, vinylacetate, hexane, chloroform, chlorobenzene, dichlorobenzene, naphthalene, phenol, ε- caprolactam, acrylonitril, o-cresol, p-cresol

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Used abbreviations:
GC/MS – gas chromatograph with mass spectrometry
PM – particulate matter
TSP – total suspended particles

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Annex:
Flexible scope of accreditation

Ordinal numbers of tests
60, 61, 63

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
1	Sampling for determination of suspended particles on filter	SOP 9A/1.2 (ČSN EN 12341, Digitel and Sven Leckel Instructions)	Ambient and indoor air
2	Sampling for determination of polyaromatic hydrocarbons on filter	SOP 10A/1.2 (ISO 12884, ČSN EN 15549)	Ambient and indoor air
3	Sampling for determination of volatile organic compounds – active sampling by sorption tube or diffusive method for solvent desorption method	SOP 11A/1.2 (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 method	SOP 13A/1.2 (ČSN EN ISO 16000-2, ISO 16000-4)	Ambient and indoor air
5	Sampling for the determination of volatile organic compounds – active sampling by sorption tube for thermal desorption method	SOP 16A/1.2 (ČSN EN ISO 16017-1)	Ambient and indoor air

[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)

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1.3 Laboratory for Chemical Safety of Products

Tests:

Ordinal number[1]	Test procedure/Method name	Test procedure /Method identification[2]	Tested object
67	Reserved		
68	Determination of overall migration into food simulants by gravimetry	SOP 1/1.3 (ČSN EN 1186-1, ČSN EN 1186-3, ČSN EN 1186-5, ČSN EN 1186-7, ČSN EN 1186-9, ČSN EN 1186-14, Ref [75])	Plastic materials and articles intended to come into contact with food, plastic materials of products for children under 3 years old
69	Determination of elements in leach from silicate products by flame atomic absorption spectrometry (FAAS)[69]	SOP 2/1.3 (ČSN EN 1388-1, ČSN EN 1388-2)	Materials and articles on silicate basis intended to come into contact with food
70	Determination of some banned and other regulated compounds by GC/MS method[70]	SOP 12/1.3 (Ref [70a,b])	Water dilutable rinse-off cosmetic product
71	Determination of nicotine by GC/MS method	SOP 15/1.3 (ISO 20714)	Refill liquid for e-cigarette
72	Determination of dialkyl phthalates in plastics by GC/MS method[72]	SOP 3/1.3 (Ref [72])	Plastic materials
73	Determination of the emission of volatile organic compounds (VOC) using a test chamber by GC/MS method[73]	SOP 5/1.3 (ČSN EN 14662-2, ČSN EN ISO 16000-9, ČSN ISO 16000-11, ČSN EN 16516+A1)	Construction products and products intended for use in building interiors
74	Determination of the emission of formaldehyde using a test chamber by HPLC/DAD method	SOP 6/1.3 (ISO 16000-3, ČSN ISO 16000-9, ČSN ISO 16000-11, ČSN EN 16516+A1)	Construction products and products intended for use in building interiors
75	Determination of carboxylic acids from PET in food simulants by HPLC/DAD and HPLC/MS method[75]	SOP 8/1.3 (ČSN EN 13130-2, ČSN EN 13130-1, Ref [75])	Materials and articles intended to come into contact with food

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Ordinal number[1]	Test procedure/Method name	Test procedure /Method identification[2]	Tested object
76	Determination of melamine in food simulants by HPLC/DAD and HPLC/MS method	SOP 9/1.3 (ČSN P CEN/TS 13130-27, ČSN EN 13130-1, Ref [75], Ref [76])	Materials and articles intended to come into contact with food
77	Determination of primary aromatic amines in food simulants by HPLC/MS method[77]	SOP 10/1.3 (ČSN EN 13130-1, Ref [75], Ref [77a,b])	Materials and articles intended to come into contact with food
78	Determination of allergens by GC/MS method[78]	SOP 11/1.3 (ČSN EN 16274)	Perfumes, toilet waters and other cosmetics in ethanol matrix (for ready to inject samples)
79	Determination of starting additives used in plastics in food simulants by GC/MS method[79]	SOP 14/1.3 (ČSN EN 13130-1, Ref [75], Ref [79])	Materials and articles intended to come into contact with food

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Notes:

69 in the scope of cadmium, lead

70 in the scope of 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

72 in the scope of diisobutyl-phthalate, di-n-butyl phthalate, benzyl butyl phthalate, di-(2-ethylhexyl) phthalate, di-n-octyl phthalate, di-isononyl phthalate, di-isodecyl phthalate

73 in the scope of benzene, trichloroethylene, toluene, tetrachloroethylene, ethylbenzene, p-xylene, o-xylene, styrene

75 in the scope of phthalic acid, terephthalic acid, isophthalic acid, 2,6-naphthalenedicarboxylic acid

77 in the scope of 2-naphtylamine, 4,4'-methylenedianiline, aniline, *o*-anisidine, *o*-toluidine

78 in the scope of 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

ad 79 in the scope of 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-n-octyloxydiphenyl ketone

Ref [70a] 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.

Ref [70b] 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.

Ref [72] Sandra Biedermann-Brem, Maurus Biedermann, Katell Fiselier, Koni Grob: 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.

Ref [75] Commission Regulation (EC) 10/ on plastic materials and articles intended to come into contact with food as amended

Ref [76] 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.

Ref [77a] Proposed standard operating procedure for primary aromatic amines from food contact materials from aqueous acidic stimulant, CRL, 2010.

Ref [77b] 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.

Ref [79] 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

Used abbreviations:

HPLC/DAD – liquid chromatography with diode array detection
HPLC/MS – liquid chromatography with mass spectrometry detection
GC/MS – gas chromatography with mass spectrometry detection

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1.4 Laboratory for Trace Element Analysis

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
80	Reserved		
81	Determination of trace elements by flame atomic absorption spectrometry (FAAS)[81]	SOP 1A/1.4 (Ref [81])	Biological material[c)]
82	Determination of trace elements by flame atomic absorption spectrometry (FAAS)[82]	SOP 1B/1.4 (ČSN ISO 9964-1,2, ČSN ISO 7980, Ref [81])	Drinking, surface and bottled water, aqueous extract [a]
83	Determination of trace elements by flameless AAS[83]	SOP 2A/1.4 (ČSN EN ISO 15586, TNV 757408)	Drinking, surface and bottled water, aqueous extract [a]
84	Determination of trace elements by flameless AAS[84]	SOP 2B/1.4 (Ref [84])	Biological material[c]
85	Determination of trace elements by ICP-MS method[85]	SOP 3/1.4A,D (ČSN EN ISO 17294-1, ČSN EN ISO 17294-2)	Biological material [c], cosmetic products, food supplements
86	Determination of trace elements by ICP-MS method[86]	SOP 3/1.4B (ČSN EN 14902)	Air samples [b]
87	Determination of trace elements by ICP-MS method[87]	SOP 3/1.4C (ČSN EN ISO 17294-1, ČSN EN ISO 17294-2)	Drinking, surface and bottled water, aqueous extract [a]
88	Determination of Hg by analyzer AMA 254	SOP 4A,B/1.4 (ČSN 757440)	Drinking, surface and bottled water, aqueous extract [a], biological material [c], cosmetic products, food supplements
89	Determination of creatinine by spectrophotometry	SOP 5/1.4 (Ref [89])	Urine

[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 edition of the specified procedure is used (including any changes)

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Notes:

81 in the scope of copper, manganese, zinc

82 in the scope of sodium, potassium, magnesium, calcium

83 in the scope of silver, aluminium, arsenic, boron, barium, beryllium, cadmium, chromium, copper, iron, manganese, nickel, lead, antimony, selenium

84 in the scope of chromium, manganese, nickel

85 in the scope of cadmium, lead, platinum, iodine in biological materials
in the scope of cadmium, chromium, nickel and lead in cosmetics
in the scope of cadmium and lead in food supplements

86 in the scope of arsenic, cadmium, chromium, manganese, nickel and lead in air and dust samples

87 in the scope of silver, aluminium, arsenic, boron, barium, beryllium, cadmium, chromium, copper, iron, manganese, nickel, lead, antimony, selenium, cobalt, uranium

a products coming into contact with water and for water treatment, food contact materials, toys and products for children up to 3 years

b in size-defined fractions of suspended particulate matter and in dust

c blood, blood serum, blood plasma, urine, tissue, hair

Ref [81] Analytical Methods for AAS, Perkin-Elmer Manual 0303-0152

Ref [84] The THGA Graphite Furnace, Perkin-Elmer Manual B050-5538

Ref [89] Jaffé without deproteinization, D.Szadovski ad. Z. Klin. Chem. Klin. Biochem. 8, (1970) 529

Annex:
Flexible scope of accreditation

Ordinal numbers of tests
81-89

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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1.5 Laboratory for the Assessment of Special Types of Foods

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
90	Reserved		
91	Determination of sweeteners in foodstuffs by HPLC/DAD[91]	SOP 1/1.5 (ČSN EN 12856)	Food products
92	Determination of preservatives by HPLC/DAD[92]	SOP 2/1.5 (Ref[92])	Food products
93	Determination of cyclamate by HPLC/DAD[93]	SOP 3/1.5 (ČSN EN 12857)	Drinks, concentrates
94	Determination of polycyclic aromatic hydrocarbons by HPLC/FLD and their sums by calculation[94]	SOP 4/1.5 (Ref[94])	Dried herbal mixtures Food supplements of vegetable origin
95	Reserved		
96	Determination of stevioside and rebaudioside A by HPLC/DAD	SOP 6/1.5 (Ref[96])	Food products

[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 edition of the specified procedure is used (including any changes).

Notes:
ad 91 in the scope of acesulfame K, saccharin (as a free imid), aspartame
ad 92 in the scope of benzoic acid, sorbic acid, methyl-, ethyl- and propyl para-hydroxybenzoate (resp. methyl-, ethyl- and propyl paraben)
ad 94 in the scope of benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene
ad 93 in the scope of cyclohexylsulfamic acid and its sodium and calcium salts
Ref [92] Journal of AOAC Vol. 68, No.3, 1985
Ref [94] Food Chemistry 115 (2009) 814-819
Ref [96] Journal of Chromatography A 1217 (2010), 474 (1989), Journal of AOAC International Vol. 90, No.5, 2007

Used abbreviations:
HPLC/DAD – High performance liquid chromatography with diode array detector
HPLC/FLD – High performance liquid chromatography with fluorescence detector
AOAC – Association of Official Agriculture Chemists

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1.6 Laboratory for Physical Factors

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
97-98	Reserved		
99*	Measurement of daylight	SOP 7/1.6 (ČSN 36 0011-2)	Indoor and outdoor environment
100*	Measurement of carbon dioxide (CO_2) concentration by instrument TESTO	SOP 8/1.6 (Manual comp.Testo)	Indoor and outdoor environment
101*	Measurement of low frequency magnetic field in the near field of the source in the frequency interval 0 Hz - 10 MHz	SOP 6/1.6, chapter 3.1 (GR No. 291/2015 Coll., MoH CR Guideline, 2017, part 8)	Indoor and outdoor environment
102*	Measurement of high frequency electromagnetic field in the far field in the frequency interval over 10 MHz	SOP 6/1.6, chapter 3.2 (GR No. 291/2015 Coll., MoH CR Guideline, 2017, part 8)	Indoor and outdoor environment
103*	Measurement of microclimate parameters[103]	SOP 1/1.6 (ČSN EN ISO 7726 MoH CR Guideline, 2013, part 8, p. 2)	Indoor and working environment
104*	Measurement of the number of particles of determinate aerosol in air by nephelometric method	SOP 2/1.6 (ČSN EN 14644-1)	Cleanrooms and equipment
105*	Measurement of artificial lighting	SOP 3/1.6 (ČSN 36 0011-1, ČSN 36 0011-3)	Indoor and outdoor environment
106*	Measurement of airborne dust in workplaces by gravimetric and nephelometric[106] method	SOP 4/1.6 (GR No. 361/2007 Coll.)	Working environment
107	Reserved		
108*	Evaluation of non-ionising electromagnetic field	SOP 6/1.6, chapter 2 (GR No. 291/2015 Coll., MoH CR Guideline, 2017, part 8)	Indoor and outdoor environment

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

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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 edition of the specified procedure is used (including any changes)

Notes:

ad 103 in the scope of globe temperature, temperature, relative humidity, air flow velocity

ad 106 in the scope of total airborne dust, respirable fraction

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1.7 Laboratory for the Assessment of Occupational Exposure to Chemicals

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
109	Determination of mandelic acid, phenylglyoxylic acid, hippuric acid and methylhippuric acids by HPLC/DAD method	SOP 1/1.7 (Ref [109])	Urine
110	Reserved		
111	Determination of t,t-muconic acid and 2-thio-thiazolidine-4-carboxylic acid (TTCA) by HPLC/DAD method	SOP 3/1.7 (Ref [111])	Urine
112	Determination of butoxyacetic acid, ethoxyacetic acid and methoxyacetic acid by GC/MS method	SOP 4/1.7 (Ref [112])	Urine
113	Determination of phenol and *o*-cresol by GC/MS method	SOP 5/1.7 (NIOSH 8305)	Urine
114	Determination of creatinine by HPLC/DAD method	SOP 6/1.7 (Ref [114])	Urine
115	Determination of diisocyanates by HPLC/DAD method[115]	SOP 7/1.7 (OSHA 42, 47)	Workplace air
116	Determination of ethylene oxide by GC/FID method	SOP 8/1.7 (OSHA 1010, SKC literature)	Workplace air
117	Reserved		
118	Determination of adducts of alkylating agents with N-terminal valine in globin by HPLC/MS method[118]	SOP 10/1.7 (Ref [118])	Blood

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
119	Determination of 4,4′-diaminodiphenyl-methane (4,4′-MDA) by GC/MS method	SOP 11/1.7 (Ref [119])	Urine
120	Determination of trichloroacetic acid (TCA) by GC/MS method	SOP 12/1.7 (NIOSH 8322)	Urine

[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 edition of the specified procedure is used (including any changes)

Notes:

ad 115 in the scope of 2,2′-methylene diphenyl diisocyanate (2,2′-MDI); 2,4′-methylene diphenyl diisocyanate (2,4′-MDI); 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); 1,5-naphthalene diisocyanate (1,5-NDI); isophorone diisocyanate (IPDI)

ad 118 determination of N-(2-hydroxyethyl)valine as an indicator of exposure to ethylene oxide

Ref [109] 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

Ref [111] Goen T, Bader M: Biomonitoring Methods, WILEY-VCH Verlag GmbH & CoKGaA, Weinheim Volume 10, 129-155, 2006

Ref [1120] Goen T, Bader M: Biomonitoring Methods, WILEY-VCH Verlag GmbH & CoKGaA, Weinheim Volume 10, 61-80, 2006

Ref [114] P. Schneiderka, V. Pacáková, K. Štulík, K. Jelínková: A HPLC determination of creatinine in serum, J. Chromatogr.: 614, 221, 1993

Ref [117] Angerer J., Schaller K. H.: Analyses of Hazardous Substances in Biological Materials, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim Volume 8, 53-65, 2003

Ref [118] 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

Ref [119] Angerer J., Schaller K. H.: Analyses of Hazardous Substances in Biological Materials, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim Volume 4, 67-105, 1994

Used abbreviations:

HPLC/DAD – liquid chromatography with diode array detection
HPLC/MS – liquid chromatography with mass spectrometry detection
GC/FID – gas chromatography with flame ionization detection
GC/MS – gas chromatography with mass spectrometry detection

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Annex:
Flexible scope of accreditation

Ordinal numbers of tests
118

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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2.2 Laboratory for Microbiology of Foods, Everyday Items and Environment

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
121	Enumeration and detection of aerobic mesophilic bacteria by plating technique	SOP 1/2.2 (ČSN EN ISO 21149)	Cosmetic products and medical devices, everyday items
122	Detection of *Pseudomonas aeruginosa* by plating technique	SOP 2/2.2 (ČSN EN ISO 22717)	Cosmetic products and medical devices, everyday items
123	Detection of *Staphylococcus aureus* by plating technique	SOP 3/2.2 (ČSN EN ISO 22718)	Cosmetic products and medical devices, everyday items
124	Detection of *Candida albicans* by plating technique	SOP 4/2.2 (ČSN EN ISO 18415, Article. 9.8)	Cosmetic products and medical devices, everyday items
125	Detection of *Escherichia coli* by plating technique	SOP 5/2.2 (ČSN EN ISO 21150)	Cosmetic products and medical devices, everyday items
126	Enumeration of yeasts and moulds by plating technique	SOP 6/2.2 (ČSN EN ISO 16212)	Cosmetic products and medical devices, everyday items
127	Measurement of antibacterial activity on materials by cultivation	SOP 7/2.2 (ISO 22196, ČSN EN ISO 20743, Article.8.1)	Plastics and other non-porous materials, textile materials
128	Determination of antimicrobial efficacy of preservation of cosmetic products	SOP 8/2.2 (ČSN EN ISO 11930, Annex B)	Cosmetic products and medical devices

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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 edition of the specified procedure is used (including any changes)

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2.3 Laboratory of Soil and Waste Hygiene

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
129-131	Reserved		
132	Determination of the acute lethal toxicity to a freshwater fish - semi-static method	SOP 1/2.3 (ČSN EN ISO 7346-2)	Chemical compounds, ground, surface, porous, grey and waste water, aqueous extract
133	Determination of the inhibition of the mobility of *Daphnia magna* - acute toxicity	SOP 2/2.3 (ČSN EN ISO 6341)	Chemical compounds, ground, surface, porous, grey and waste water, aqueous extract
134	Freshwater algal growth inhibition test	SOP 3/2.3 (ČSN EN ISO 8692)	Chemical compounds, ground, surface, porous, grey and waste water, aqueous extract, disinfectants
135	Determination of the root growth inhibition of *Sinapsis alba*	SOP 4/2.3 (Methodological instruction of the Waste Department for the determination of the ecotoxicity of waste)	Chemical compounds, ground, surface, porous, grey and waste water, aqueous extract
136	Detection of *Salmonella* spp. (presence/absence)	SOP 5/2.3 (AHEM 7/2001, AHEM 1/2008)	Sludge, sediments and treated bio-waste, sand from sandpits of playgrounds, fertilizers, substrates, peat, soil and other solid matrices
137	Method for enumeration of thermotolerant coliform bacteria - direct plating method	SOP 6/2.3 (AHEM 7/2001, AHEM 1/2008)	Sludge, sediments and treated bio-waste, sand from sandpits of playgrounds, fertilizers, substrates, peat, soil and other solid matrices
138	Method for enumeration of enterococci - direct plating method	SOP 7/2.3 (AHEM 7/2001, AHEM 1/2008)	Sludge, sediments and treated bio-waste, sand from sandpits of playgrounds, fertilizers, substrates, peat, soil and other solid matrices

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
139	Method for enumeration of clostridium - direct plating method	SOP 8/2.3 (Ref [139])	Sludge, sediments and treated bio-waste, fertilizers, substrates, peat, sand from sandpits of playgrounds, soil and other solid matrices
140	Determination of thermotolerant coliform bacteria and *Escherichia coli* by Colilert method	SOP 27/2.3, (Ref [140])	WWTP sludge, sediments and treated bio-waste, fertilizers, substrates, peat, soil and other solid matrices
141	Determination of the inhibitory effect on the light emission of *Aliivibrio fischeri*	SOP 25/2.3 (ČSN EN ISO 11348-2)	Chemical compounds, ground, surface, porous, grey and waste water, aqueous extract
142	Determination of the effectiveness of sanitation and decontamination	SOP 11/2.3 (AHEM 1/2008)	Waste, treated waste, equipment, healthcare waste
143	Determination of viable microbes by swabs and contact plates	SOP 14/2.3	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
144	Growth inhibition test of *Lactuca sativa* salad root	SOP 26/2.3 ČSN EN ISO 11269-1	Wastes, treated wastes, chemical compounds, soil, sediments, composts and sludges
145	Determination of the number of bacteria of the *Salmonella* spp.– membrane filtration method	SOP 28/2.3 (Ref [145])	WWTP sludge, sediments and treated bio-waste, fertilizers, substrates, peat, soil and other solid matrices

[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 edition of the specified procedure is used (including any changes)

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Notes:

aqueous extract – aqueous extract from solid materials (waste, soil, sludge, sediment, construction material, construction product and similar matrix)

grey water – domestic wastewater without faeces and urine

Ref [139, 140] SPII2f1/32/07 Choice of method for the determination of indicator organisms for health and environmental impact assessments for the treatment of biodegradable waste

Ref [145] 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

Used abbreviations:

AHEM – Acta hygienica, epidemiologica et microbiologica
WWTP – Waste Water Treatment Plant
HH – chief hygienist
HEM – dep.hygiene, epidemiology, microbiology
MZ – Ministry of Health of the Czech Republic
MŽP ČR –Ministry of the Environment of the Czech Republic
VaV – research and development

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
1	Sampling methods for microbiological analyses (soil and sand from sandpits)	SOP 12/2.3 (Instruction HH ČR for the implementation of uniform system for checking of sandpits in playgrounds No.: MZ 35023/2004 HEM)	Soil, sand
2	Sampling methods for sampling of sludge, biowaste, sediments and treated biowaste	SOP 13/2.3 (ČSN EN ISO 5667-13, ČSN EN 14899)	Biowaste, sludge, sediments and treated biowaste and similar matrix

[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)

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3 Laboratories of Toxicology

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
146-150	Reserved		
151	Tests for in vitro cytotoxicity	SOP 1/3 (EN ISO 10993-5: Articles 1, 2, 3, 4, 5, 6, 7, 8.1, 8.2, 8.3, 8.5, 9, 10, Annex A)	Medical devices, chemicals, cosmetic products, items of everyday use, products for children under 3 years of age, personal protective devices, toys
152	Tests for irritation and skin sensitization	SOP 2/3 (ČSN EN ISO 10993-10, articles 1, 2, 3, 4, 5, 7.1,7.3,7.4, 7.5, 8., Annex A, E)	Medical devices, chemicals, consumer products
153	Tests for human skin compatibility	SOP 3/3 (Ref [153])	Medical devices, chemicals, cosmetic products, items of everyday use, products for children under 3 years of age, personal protective devices, toys
154	Determination of free and hydrolyzed formaldehyde - water extraction method	SOP 4/3 (EN ISO 14184-1)	Medical devices, items of everyday use, products for children under 3 years of age, personal protective devices, toys
155	Determination of pH	SOP 5/3 (ČSN 68 1504, ČSN 68 1507, ČSN 68 1512, ČSN 68 1513, ISO 11609, ISO 4045, ISO 3071)	Medical devices, chemicals, cosmetic products, items of everyday use, products for children under 3 years of age, personal protective devices, toys

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
156	Mutagenicity – in vitro mammalian chromosome aberration test	SOP 6/3 (Commission Regulation (EC) No. 440/2008 - Method B.10)	Chemicals, blood
157	Mutagenicity – Reverse mutation test using bacteria	SOP 7/3 (Commission Regulation (EC) No. 440/2008 - Method B.13/14)	Chemicals, items of everyday use, medical devices, samples of water, extracts of air
158	Skin Sensitization - Local Lymph Node Assay: DA (measurement of ATP content)	SOP 8/3 (EN ISO 10933-10: Articles .1, 2, 3, 4, 5, 7.1, 7.2, Annex A, OECD TG 442A, Commission Regulation (EC) No. 440/2008 - Method B.50)	Medical devices, consumer products, chemicals
159	Tests for irritation in vivo	SOP 9/3 (ISO 10993-23: Articles 1, 2, 3, 4, 5, 7, 8, Annex A, Annex D - Article D.2, Annex E)	Medical devices, consumer products, chemicals
160	Tests for irritation in vitro	SOP 10/3 (ISO 10993-23: Articles 1, 2, 3, 4, 5, 6, Annex A, B, C)	Medical devices, consumer products, chemicals

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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 edition of the specified procedure is used (including any changes)

Notes:
Ref [153] COLIPA - The European Cosmetic, Toiletry and Perfumery Association

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