

**The Appendix is an integral part of  
Certificate of Accreditation No: 161/2024 of 10/04/2024**

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

**Státní ústav jaderné, chemické a biologické ochrany, v.v.i.**

CAB number 1127, SÚJCHBO Central laboratory

Kamenná 71, 262 31 Milín

**Testing laboratory locations:**

1. **Laboratory for the monitoring of persons under extreme conditions /LSOEP/**  
Žežická 226, 261 05 Příbram
2. **Laboratory for chemical monitoring and protection /LCHMO/**  
tř. Kpt. Jaroše 5, 602 00 Brno
3. **Laboratory for radon measurement /LMR/**  
Kamenná 71, 262 31 Milín
4. **Laboratory for dosimetry and radioactivity monitoring /LDMR/**  
Kamenná 71, 262 31 Milín
5. **Laboratory for biological monitoring nad protection /LBMO/**  
Kamenná 71, 262 31 Milín
6. **Laboratory for toxic compounds /LTL/**  
Kamenná 71, 262 31 Milín
7. **Autonomous department for support of the Supervision Authority /SOPD/**  
Kamenná 71, 262 31 Milín

*The laboratory provides opinions and interpretations of the test results.*

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

1. **Laboratory for the monitoring of persons under extreme conditions /LSOEP/**

**Tests:**

<b>Ordinal number<sup>1</sup></b>	<b>Test procedure / method name</b>	<b>Test procedure / method identification<sup>2</sup></b>	<b>Tested subject</b>	<b>Degrees of freedom<sup>3</sup></b>
1*	Work-thermal load - Measurement of microclimatic conditions	Internal methodology B1/MET/01 (ČSN EN ISO 7726)	Ambient environment conditions	-
2*	Work-thermal load - Determination of thermal load by physiological measurements	Internal methodology B1/MET/02 (ČSN EN ISO 9886)	Persons	-
3*	Work-thermal load - Determination of thermal load by subjective rating	Internal methodology B1/MET/03 (ČSN EN ISO 10551)	Persons	-
4*	Work-thermal load - Determination of metabolic energy release	Internal methodology B1/MET/04 (ČSN EN ISO 8996)	Persons	-
5*	Means of individual protection - practical tests by wearing in a climatic chamber	Internal methodology B1/MET/06 (Government Reg. no. 361/2007)	Special clothing	-

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- <sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)
- <sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
5	NIOSH criteria for a recommended standard: occupational exposure to heat and hot environments. By Jacklitsch B, Williams WJ, Musolin K, Coca A, Kim J-H, Turner N. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication 2016-106.

**2. Laboratory for chemical monitoring and protection /LCHMO/**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Determination of the resistance of barrier materials to permeation of organic solvents by GC-FID	MAZL 16-95/Permeatest 2 (ČSN EN 16523-1+A1; ČSN EN 16523-2+A1)	Barrier materials	-
2	Reserved			-
3	Determination of the resistance of barrier materials to acids and basis by indicator colour change	MAZL 04-95/Aciditest 1 (ČSN EN 16523-1+A1; ČSN EN 374-1)	Barrier and textile materials	-
4	Measurement of the tightness of respiratory protective equipment against aerosols and dust particles (Portacount)	MAZL 40-11/Portacount (ČSN EN 136; OSHA 29CFR1910)	Respiratory protective equipment	-

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**3. Laboratory for radon measurement /LMR/**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Measurement of radon volume activity in water by means of ionizing chambers	Internal methodology LMR-1 cap. 7.1 (Recommendation SÚJB DR-RO-5.1 /Rev.0.0)	Raw, drinking and ground water	-
2	Measurement of radon volume activity in water by means of scintillation chambers	Internal methodology LMR-1 cap. 7.2 (Recommendation SÚJB DR-RO-5.1 /Rev.0.0)	Raw, drinking and ground water	-
3*	Measurement of the instantaneous values of radon volume activity	Internal methodology LMR-2	Internal and external atmosphere, soil air	-
4*	Measurement of the instantaneous values of radon equivalent volume activity	Internal methodology LMR-3	Internal and external atmosphere	-
5*	Short-time measurements of radon volume activity in structures	Internal methodology LMR-4 (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmosphere	-
6*	Short-time measurements of radon equivalent volume activity in structures	Internal methodology LMR-5 (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmosphere	-
7*	Measurement of subsoil permeability	Internal methodology LMR-6 (Recommendation SÚJB DR-RO-5.0 /Rev.2.2)	Soil	-
8*	Measurement of dose rate (gamma radiation)	Internal methodology LMR-7 (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmosphere	-
9*	Measurement of the portion of RaA (218Po) on unbound aerosol	Internal methodology LMR-8	Internal and external atmosphere	-

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**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
3	H. F. Lucasem: An Improved gas level alpha scintillation counter for radon. Rev.Sci.Instrum.28 (1957).
4	O. G. Raabe, F. S. Patterson: A Method of Analysis of Air Sampling Data for particulate Alpha Emitters in Radon-Thoron Atmosphere. University of Rochester, New York, 1965).
9	R. F. Holub, E. O. Hnutson, S. Solomon: Tests of the Graded Wire Screen Technique for Measuring the Amount and Size Distribution of Unattached Radon progeny. Radiation Protection Dosimetry, Vol.24, No E, pp.265-268 (1988).

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**4. Laboratory for dosimetry and radioactivity monitoring /LDMR/**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Determination of radionuclides - Total alpha volume activity	ČSN 75 7611	Drinking, surface and ground water	-
2	Determination of radionuclides - Total beta volume activity	ČSN 75 7612	Drinking, surface and ground water	-
3	Determination of the intake rate of long-term radionuclides mixture emitting alpha radiation of uranium-radium series	Internal methodology M-1	Filters	-
4	Determination of photon dose rate equivalent by means of thermoluminescent dosimeters (TLD)	Internal methodology M-4b	TLD	-
5	Kerma measurement by means of thermoluminescent dosimeters (TLD)	Internal methodology M-4	TLD	-
6	Determination of activity by gamma-spectrometric method	Internal methodology M-5 (ČSN ISO 10703; Government Reg. no. 422/2016 Sb.; Recommendation SÚJB DR-RO-5.2 /Rev.0.0, DR-RO-5.3 /Rev.0.0)	Building materials, waters, filters, fallouts, sludge, ashes, earths and biological materials	-
7	Fluorometric determination of uranium	Internal methodology M-13 (ČSN 75 7600)	Filters, absorbers, drinking, surface and waste waters	-
8	Determination of the volume activity of <sup>226</sup> Ra by radiometric method with a ZnS(Ag) scintillator	Internal methodology M-14 (PNU 83 0501)	Filters, drinking, surface and waste waters	-
9	Long-term integral measurement of radon volume activity by trace detector	Internal methodology R-6	Trace dosimeter	-
10	Measurement of the volume activity of alpha emitters in air by trace detector	Internal methodology R-10	Trace dosimeter	-
11	Determination of latent energy intake by means of personal dosimeter ALGADE Determination of the mean concentration of latent energy	Internal methodology R-10b	Trace dosimeter	-
12	Determination of latent energy intake by means of personal dosimeter OD88	Internal methodology R-10c	Trace dosimeter	-
13	Spectrophotometric determination of uranium mass concentration after adsorption on wide-pore silica gel	Internal methodology M-11 (ČSN 75 7614)	Drinking, surface and ground water	-

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**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
9, 10	I. Burian, J. Čech, M. Richter: Integrální zjišťování objemových aktivit přirozených zářičů alfa metodou pasivní stopové dozimetrie (Rádioaktivita a životné prostredie, 9, 1986, č. 2, 85-106).

**5. Laboratory for biological monitoring and protection /LBMO/**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Identification of high-risk and risk biological agents by means of mass spectrometry	Internal methodology B-MALDI-01	Bacterial cultures	-

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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	<i>Bacillus anthracis, Mycobacterium tuberculosis, Brucella melitensis, Salmonella typhi, Burkholderia mallei, Shigella dysenteriae, Burkholderia pseudomallei, Vibrio cholerae, Clostridium botulinum, Yersinia pestis, Francisella tularensis, Yersinia pseudotuberculosis, Legionella pneumophila</i>

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**6. Laboratory for toxic compounds /LTL/**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Determination of the resistance of barrier materials to permeation of sulphur mustard by gas chromatography	MAZL 39-10/Permeatest 4 (ČSN EN 16523-1+A1; ČSN EN 16523-2+A1)	Barrier materials	-
2	Determination of the resistance time of protective materials to sulphur mustard drops under static conditions by indicator colour change	MAZL 03-95/Mikrotest, Minitest (ČSN EN 16523-1+A1; ČSN EN 16523-2+A1)	Barrier and textile materials	-
3	Determination of the protective properties of barrier materials against soman and sulphur mustard vapours and drops by indicator colour change	MAZL 36-10/Permeatest 3 (ČSN EN 16523-1+A1; ČSN EN 16523-2+A1)	Barrier and textile materials	-
4	Determination of the resistance of protective breathing equipment to the permeation of chemical agents by photoionization detection	MAZL 41-12/ SMARTMAN (BS 8468-1; ČSN EN 134; ČSN EN 136; ČSN EN 13274-1)	Protective breathing equipment	-
5	Reserved			-
6	Determination of the sorption capacity of sorbents used to catch organic chemical by photoionization detection	MAZL 19-95/DSK-Test 2 (ČSN EN 14387, chap. 5, 6)	Sorbents	-
7	Determination of the sorption capacity of sorbents used to catch inorganic agents by electrochemical detectors	MAZL 20-95/DSK-Test 3 (ČSN EN 14387, chap. 5, 6)	Sorbents	-
8	Colorimetric determination of the tightness of chemical protective suits	MAZL 37-09/LUCIE	Protective suits	-
9	Identification of CWC-Schedule chemicals by GC-EI/MS	CH/2021/04-GCMS-CW	Liquid organic samples	-
10	Identification of CWC-Scheduled chemicals by GC-EI/MS using microextraction techniques	CH/2021/06-GCMS-EXT, chap. 7.2	Air / vapour samples	-
11	Identification of CWC-Scheduled chemicals by GC-EI/MS using microextraction techniques	CH/2021/06-GCMS-EXT, chap. 7.3	Aqueous samples	-
12	Identification of CWC-Scheduled chemicals by GC-EI/MS using microextraction techniques	CH/2021/06-GCMS-EXT, chap. 7.4	Solid samples	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
13	Identification of CWC-Scheduled chemicals in samples of interest using GC-EI/MS	CH/2021/05-GCMS-WI, chap. 7.3.1	Solid and liquid organic samples	-
14	Identification of CWC-Scheduled chemicals in samples of interest using GC-EI/MS	CH/2021/05-GCMS-WI, chap. 7.3.2	Wipe samples and solid sorbents	-
15	Identification of CWC-Scheduled chemicals in samples of interest using GC-EI/MS	CH/2021/05-GCMS-WI, chap. 7.3.3	Aqueous samples	-
16	Identification of CWC-Scheduled chemicals in samples of interest using GC-EI/MS	CH/2021/05-GCMS-WI, chap. 7.3.4	Soil samples	-
17	Identification of CWC-Scheduled chemicals by GC-EI/MS using thermal desorption	CH/2021/07-GCMS-TD	Air samples, solid and liquid samples	-

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**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
9-17	O-Isopropyl methylphosphonofluoridate (GB; 1A01); O-Pinacolyl methylphosphonofluoridate (GD; 1A01); O-Cyclohexyl methylphosphonofluoridate (GF; 1A01); O-Ethyl N,N-dimethyl phosphoramidocyanidate (GA; 1A02); O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate (VX; 1A03); O-Isobutyl S-2-diethylaminoethyl methylphosphonothiolate (VR/RVX; 1A03); O-Butyl S-2-diethylaminoethyl methylphosphonothiolate (CVX; 1A03); 2-Chloroethylchloromethylsulfide (1A04); Bis(2-chloroethyl)sulfide (HD; 1A04); Bis(2-chloroethylthio)methane (1A04); 1,2-Bis(2-chloroethylthio)ethane (Q; 1A04); 1,3-Bis(2-chloroethylthio)-n-propane (1A04); 1,4-Bis(2-chloroethylthio)-n-butane (1A04); 1,5-Bis(2-chloroethylthio)-n-pentane (1A04); Bis(2-chloroethylthiomethyl)ether (1A04); Bis(2-chloroethylthioethyl)ether (T; 1A04); 2-Chlorovinylchloroarsine (Lewisite 1/L1; 1A05); Bis(2-chlorovinyl)chloroarsine (Lewisite 2/L2; 1A05); Tris(2-chlorovinyl)arsine (Lewisite 3/L3; 1A05); Bis(2-chloroethyl)ethylamine (HN1; 1A06); Bis(2-chloroethyl)methylamine (HN2; 1A06); Tris(2-chloroethyl)amine (HN3; 1A06); Methylphosphonic difluoride (DF; 1B09); Ethylphosphonic difluoride (1B09); Propylphosphonic difluoride (1B09); Isopropylphosphonic difluoride (1B09); O-Ethyl O-2-diisopropylaminoethyl methylphosphonite (QL; 1B10); O-Isopropyl methylphosphonochloridate (1B11); O-Pinacolyl methylphosphonochloridate (1B12)

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**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
4	Yperit, Sarin
6	Sarin, Cyclosarin, Soman, Tabun, Yperit, Lewisit
7	Chlorine, hydrogen sulphide, hydrogen cyanide, ammonia, sulphur dioxide

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	DHHS (NIOSH) Publication No.2008-141 Estimating the Permeation Resistance of Nonporous Barrier Polymers to Sulfur Mustard and Sarin, July 2008.
8	Technical Assessment of the Man-In-Simulant Test, National Academy Press, Washington, D.C. 1997, Jedinyje metodiky i spytanij sredstv IPCHZ, MNO ČSSR 1978.
9-11	VANNINEN, Paula, ed., 2017. Recommended Operating Procedures for Analysis in the Verification of Chemical Disarmament. 2017 Edition. Helsinki: University of Helsinki ISBN 978-951-51-3916-0. VALDEZ, Carlos A., Roald N. LEIF, Saphon HOK a Bradley R. HART, 2018. Analysis of chemical warfare agents by gas chromatography-mass spectrometry: methods for their direct detection and derivatization approaches for the analysis of their degradation products. Reviews in Analytical Chemistry. 37(1). ISSN 2191-0189. PRAGNEY, Deme a Vijaya SARADHI, 2012. Sample-preparation techniques for the analysis of chemical-warfare agents and related degradation products. TrAC Trends in Analytical Chemistry. 37, 73-82. ISSN 01659936
13-16	VANNINEN, Paula, ed., 2017. Recommended Operating Procedures for Analysis in the Verification of Chemical Disarmament. 2017 Edition. Helsinki: University of Helsinki ISBN 978 951-51-3916-0. OPCW Quality management system document No.: QDOC/LAB/WI/SP2 Work instruction for the preparation of samples for GC-MS analysis (2017). VALDEZ, Carlos A., Roald N. LEIF, Saphon HOK a Bradley R. HART, 2018. Analysis of chemical warfare agents by gas chromatography-mass spectrometry: methods for their direct detection and derivatization approaches for the analysis of their degradation products. Reviews in Analytical Chemistry. 37(1). ISSN 2191-0189.
17	VANNINEN, Paula, ed., 2017. Recommended Operating Procedures for Analysis in the Verification of Chemical Disarmament. 2017 Edition. Helsinki: University of Helsinki ISBN 978 951-51-3916-0. PRAGNEY, Deme a Vijaya SARADHI, 2012. Sample-preparation techniques for the analysis of chemical-warfare agents and related degradation products. TrAC Trends in Analytical Chemistry. 37, 73-82. ISSN 01659936.



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**Sampling:**

Ordinal number <sup>1</sup>	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Subject of sampling
1	Taking of wipe samples for further instrumental qualitative analysis (manual sampling)	CH/2014/01-SAMP-1 (OPCW, Quality system document No.QDOC/LAB/WI/SC005)	Wipe
2	Taking of liquid samples for further instrumental qualitative analysis (manual sampling, auto sampler)	CH/2014/02-SAMP-2 (OPCW, Quality system document No.QDOC/LAB/WI/SC004)	Liquids
3	Taking of solid samples for further instrumental qualitative analysis (manual sampling)	CH/2014/03-SAMP-3 (OPCW, Quality system document No.QDOC/LAB/WI/SC003)	Solid materials
4	Taking of air samples for further instrumental qualitative analysis (manual sampling, automatic sampling pump)	CH/2014/04-SAMP-4 (OPCW, Quality system document No.QDOC/LAB/WI/SC002; OPCW, Quality system document No. QDOC/LAB/SOP/OSA1)	Air

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**7. Autonomous department for support of the Supervision Authority /SOPD/**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1*	Measurement of the surface contamination by radioactive agents emitting alpha particles (aS,alfa)	Internal methodology 01/SOPD (PNU 83 0101)	Contaminated surfaces	-
2*	Continuous measurement of radon volume activity (OAR)	Internal methodology 02/SOPD (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmospheres	-
3*	Determination of the volume activity of long-term radionuclides mixture emitting alpha radiation of uranium-radium series (aV,alfa)	Internal methodology 03/SOPD (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmospheres	-

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4*	Determination of the latent energy of radon transformation products (KLE)	Internal methodology 04/SOPD (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmospheres	-
5*	Measurement of photon dose rate equivalent, dose rate intake of external gamma radiation (Hx,Dgama)	Internal methodology 05/SOPD (Recommendation SÚJB DR-RO-5.2 /Rev.0.0)	Internal and external atmospheres	-
6*	Measurement of radon equivalent volume activity (EOAR)	Internal methodology 06/SOPD (Recommendation SÚJB DR-RO-5.0 /Rev.2.0)	Internal and external atmospheres	-

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