

**The Appendix is an integral part of Certificate of  
Accreditation No. 138/2024 of 26/03/2024**

**Accredited entity according to ČSN EN ISO/IEC 17043:2010:**

**Státní zdravotní ústav**

CAB Number 7001, Expert Group for Proficiency Testing  
Šrobárova 49/48, 100 00 Praha 10 - Vinohrady

**Proficiency testing provider workplaces:**

- |   |                                  |
|---|----------------------------------|
| <b>1. Department for PT schemes in environment<br/>and working environment and genetic toxicology</b> | Šrobárova 49/48, 100 00 Praha 10 |
| <b>2. Department for EQA in medical microbiology</b>  | Šrobárova 49/48, 100 42 Praha 10 |

**1. Department for PT schemes in environment and working environment and genetic toxicology**

**Proficiency testing schemes:**

Ordinal number	Proficiency testing scheme	Proficiency testing scheme identification	Proficiency testing item
<b>AIR</b>			
1	Determination of polycyclic aromatic hydrocarbons	PT#O/1	Air
2	Determination of aldehydes and ketones by sorption on tubes with 2,4-dinitrofenylhydrazine	PT#O/2	Air
3	Reserved		
4	Determination of volatile organic compounds	PT#O/6	Air
5	Comparative measurement of selected air quality indicators using automated systems	PT#O/8	Air
6	Gravimetric determination of a defined fraction of suspended particulate matter	PT#O/9	Air
7-10	Reserved		
<b>SURFACE, RAW AND DRINKING WATER</b>			
11	Chemical analysis of water	PT#V/1	Bottled and mineral water
12	Sensory analysis of water – taste and odour assessments	PT#V/2	Drinking water
13	Microbiological analysis of water	PT#V/3	Drinking and surface water
14	Microscopic analysis of drinking and raw (surface) water	PT#V/4	Drinking and raw water
15	Microscopic analysis of bathing water, identification and quantification of cyanobacteria and analysis of chlorophyll-a	PT#V/5	Surface water
16	Sampling of drinking water	PT#V/6	Drinking and raw water
17	Sampling of water from swimming pools	PT#V/7	Bathing water

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Ordinal number	Proficiency testing scheme	Proficiency testing scheme identification	Proficiency testing item
18	Sampling of water from natural bathing places	PT#V/8	Bathing water
19-39	Reserved		
<b>GENETICS</b>			
40	Genetics – chromosomal aberrations	PT#G/1	Blood

**List of parameters for PT schemes:**

Ordinal number	PT scheme code	Parameters:
1	PT#O/1	Phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(j)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene, indeno(1,2,3,c,d)pyrene
2	PT#O/2	Formaldehyde, acetaldehyde, acetone
4	PT#O/6	Benzene, toluene, xylene, styrene, ethylbenzene, trichloroethylene, tetrachloroethylene, pinene, limonene
5	PT#O/8	NO, SO <sub>2</sub> , CO, O <sub>3</sub> , suspended particles, meteorological factors (temperature, relative humidity, barometric pressure, wind speed and direction)
11	PT#V/1	Cl <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , F <sup>-</sup> , SiO <sub>3</sub> <sup>2-</sup> , HCO <sub>2</sub> <sup>-</sup> , Na, K, Ca, Mg, Mn, NH <sub>4</sub> <sup>+</sup> , CO <sub>2</sub> , dissolved solids
12	PT#V/2	Taste and odour - approximate analysis, taste and odour – threshold numbers, characterization of taste and odour
13	PT#V/3	<i>Escherichia coli</i> , coliform bacteria, thermotolerant coliform bacteria, intestinal enterococci, colony count 22 °C and 36 °C, <i>Clostridium perfringens</i> , sulphite-reducing clostridia, <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , <i>Legionella</i> spp.
14	PT#V/4	Enumeration of microscopic organisms, determination of living microscopic organisms, abiosestone (tripton), identification of microscopic organisms and particles
15	PT#V/5	Quantification of Cyanobacteria, identification of Cyanobacteria and other microscopic water organisms, chlorophyll-a, phaeopigments
16	PT#V/6	Sampling and analysis of free chlorine on sampling site
17	PT#V/7	Sampling and analyses of free, bound and total chlorine and pH on sampling site
18	PT#V/8	Sampling, analysis of dissolved oxygen on sampling site, visual analyses (transparency, water bloom, waste, natural pollution)

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**2. Department for EQA in medical microbiology**

**Proficiency testing schemes:**

Ordinal number	Proficiency testing scheme	Proficiency testing scheme identification	Proficiency testing item
<b>MEDICAL MICROBIOLOGY</b>			
41	Microscopy and cultivation of the genus <i>Mycobacterium</i>	PT#M/1-1	Mycobacterial culture
	Identification of the genus <i>Mycobacterium</i>	PT#M/1-2	
42	Detection of <i>Mycobacterium tuberculosis</i> by metabolic methods	PT#M/2-1	Mycobacterial culture
	Identification of <i>Mycobacterium tuberculosis</i>	PT#M/2-2	
43	Reserved		
44	Serology of toxoplasmosis (detection of antibodies)	PT#M/4	Serum
45	Bacteriological diagnostics (detection of bacterial agents by cultivation method, identification to the species level, determination of antibiotic susceptibility)	PT#M/5	Simulated clinical sample
46	Serology of Epstein-Baar virus (detection of antibodies)	PT#M/6	Serum
47	Serology of cytomegalovirus (detection of antibodies)	PT#M/7	Serum
48	Serology of leptospirosis (microscopic agglutination test - qualitative and quantitative)	PT#M/8	Serum
49	Serology of Lyme borreliosis (detection of antibodies)	PT#M/9	Serum
50	Serology of Hepatitis B virus (HBV), hepatitis C virus (HCV), human immunodeficiency virus (HIV) (determination of antibodies and antigens)	PT#M/10	Serum, plasma
51	Detection of nucleic acid of respiratory viruses (influenza A, B virus, adenovirus, respiratory syncytial virus - RSV)	PT#M/11	Simulated clinical sample

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52	Syphilis serology (methods for the detection of anti-cardiolipin and anti-treponemal antibodies)	PT#M/12	Serum, plasma
53	HBV genome detection (detection by PCR methods)	PT#M/13	Serum, plasma
54	HCV genome detection (detection by PCR methods)	PT#M/14	Serum, plasma
55	Detection of cytomegalovirus DNA (detection by PCR method)	PT#M/15	Plasma
56	Phenotypic drug susceptibility testing in <i>Mycobacterium tuberculosis</i>	PT#M/16	Mycobacterial culture
57	Serology of HBV markers (detection of antibodies and antigens)	PT#M/17	Serum, plasma
58	Serology of HAV (detection of antibodies)	PT#M/18	Serum, plasma
59	Intestinal parasites (microscopic diagnostics of helminths in fixed specimens and protozoa in permanent stained smears)	PT#M/19	Clinical specimens
60	Microscopic diagnostics of trichomonads (microscopic diagnostics of <i>Trichomonas vaginalis</i> )	PT#M/20	Simulated clinical sample
61	Chlamydial serology (methods for the detection of genus and species antibodies)	PT#M/21	Serum, plasma
62	Reserved		
63	Identification of yeast and yeast-like fungi	PT#M/23	Yeast cultures
64	Serology of <i>Helicobacter pylori</i> (detection of antibodies)	PT#M/24	Serum
65	Serology of <i>Yersinia enterocolitica</i> (detection of antibodies)	PT#M/25	Serum
66	Serology of HSV infection (detection of antibodies)	PT#M/26	Serum
67	Serology of VZV infection (detection of antibodies)	PT#M/27	Serum
68	Serology of tick-borne encephalitis virus (detection of antibodies)	PT#M/28	Serum

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69	Sterilization (evaluation of the effectiveness of the washing, disinfection and sterilization process)	PT#M/29	Test material
70	Microscopic detection of tropical parasites (microscopic diagnostics of parasites)	PT#M/30	Clinical sample
71	Detection of papillomaviruses (presence and typing of human papillomaviruses)	PT#M/31	Clinical sample
72	Reserved		
73	Serology of larval toxocariasis (detection of antibodies)	PT#M/33	Serum
74	Detection of HSV and VZV DNA (detection by PCR methods)	PT#M/34	Laboratory strains in tissue culture
75	Detection of enteroviruses DNA	PT#M/35	Simulated clinical sample
76	Serology of measles (detection of antibodies)	PT#M/36	Serum
77	Detection of SARS-CoV-2 (detection by PCR methods)	PT#M/37	Simulated sample
78	Cultivation and identification of filamentous microscopic fungi	PT#M/38	Cultures of filamentous fungi
79	Serology of SARS-CoV-2 (detection of antibodies)	PT#M/39	Simulated clinical sample
80	Antifungal susceptibility testing	PT#M/40	Micromycete cultures