

**The Appendix is an integral part of
Certificate of Accreditation No. 350/2024 of 18/07/2024**

Accredited entity according to ČSN EN ISO 15189 ed. 2:2013

Ústřední vojenská nemocnice - Vojenská fakultní nemocnice Praha

CAB Number 8195, Clinical Laboratories
U Vojenské nemocnice 1200/1, 169 02 Praha 6

Examinations:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
222 - Transfusion Medicine					
1.	Blood type	Gel column agglutination	SOP/A-Sklad/001/v04	Blood	-
2.	Blood type	Solid phase	SOP/A-Sklad/001/v04; Galileo NEO	Blood	-
3.	Screening of anti-erythrocyte antibodies	Solid phase	SOP/A-Sklad/002/v03; Galileo NEO	Serum, plasma	-
4.	Screening of anti-erythrocyte antibodies	Gel column agglutination	SOP/A-Sklad/003/v04	Serum, plasma	-
5.	Examination of compatibility	Electronic crossmatch	SOP/A-Sklad/004/v03	Blood	-
6.	Examination of compatibility	Gel column agglutination	SOP/A-Sklad/005/v03	Blood	-
7.	Examination of compatibility	Solid phase	SOP/A-Sklad/006/v02; Galileo NEO	Blood	-
8.	Identification of anti-erythrocyte antibodies	Gel column agglutination	SOP/A-Sklad/007/v03	Serum, plasma	-
9.	Identification of anti-erythrocyte antibodies	Solid phase	SOP/A-Sklad/008/v02; Galilo NEO	Serum, plasma	-
10.	Direct antiglobulin test	Gel column agglutination	SOP/A-Sklad/009/v02	Blood	-

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801 – Clinical Biochemistry					
1.	Minerals	Potentiometry	SOP/A-Bioch/012/v06; SOP/A-Bioch/013/v06; SOP/A-Bioch/014/v06; cobas pro	Serum	-
2.	Enzymes	Absorption spectrophotometry	SOP/A-Bioch/015/v05; SOP/A-Bioch/016/v05; SOP/A-Bioch/017/v05; SOP/A-Bioch/036/v05; SOP/A-Bioch/037/v05; SOP/A-Bioch/038/v05; cobas pro	Serum	-
3.	Glucose	Absorption spectrophotometry	SOP/A-Bioch/018/v06 15. 7. 2022; cobas pro	Serum, plasma	-
4.	Tumor markers	Immunoassay with luminometric detection	SOP/A-Bioch/023/v05; SOP/A-Bioch/045/v04; cobas pro	Serum	-
5.	Proteins	Absorption spectrophotometry	SOP/A-Bioch/029/v05; SOP/A-Bioch/033/v05; cobas pro	Serum	-
6.	Lipids	Absorption spectrophotometry	SOP/A-Bioch/031/v05; SOP/A-Bioch/034/v05; SOP/A-Bioch/035/v05; SOP/A-Bioch/163/v01; cobas pro	Serum	-

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7.	Non-protein nitrogenous compounds	Absorption spectrophotometry	SOP/A-Bioch/032/v05; SOP/A-Bioch/039/v05; SOP/A-Bioch/052/v03; cobas pro	Serum	-
8.	Glycated haemoglobin	High-Performance Liquid Chromatography	SOP/A-Bioch/071/v02; Tosoh G8	Blood	-
9.	Cardiac markers	Immunoassay with luminometric detection	SOP/A-Bioch/042/v04; SOP/A-Bioch/043/v04; cobas pro	Serum	-
10.	Total bilirubin	Absorption spectrophotometry	SOP/A-Bioch/049/v04; cobas pro	Serum	-
11.	Acid-base balance	Potentiometry; Amperometry	SOP/A-Bioch/053/v03; ABL800 Flex	Blood	-
802 – Medical Microbiology					
1.	Microbiological examination of clinical material	Microscopy; Aerobic culture; Anaerobic culture	SOP/A-OKM/01/v07	Pus, swab of decubitus, venous ulcer, acne, furuncle, external auditory canal, conjunctival sac, skin nidus	-
2.	Microbiological examination of primarily sterile material	Microscopy; Aerobic culture; Anaerobic culture	SOP/A-OKM/01/v07	Swab of wound, punctate, fistulae, abscess, drain content, dialyzate, tissue, bile, exsudate, gastric juice, middle ear swab	-
3.	Microbiological examination of foreign bodies	Aerobic culture	SOP/A-OKM/01/v07	Drain, catheter, implant	-

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Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
4.	Microbiological examination of urogenital tract	Microscopy; Aerobic culture	SOP/A - OKM/02/v06	Vaginal swab, cervical smear, urethral swab, semen prostatic fluid	-
5	Qualitative antibiotic susceptibility testing	Disk diffusion test	SOP/A-OKM/03/v08	Bacterial culture	-
6	Quantitative antibiotic susceptibility testing	Gradient diffusion method	SOP/A-OKM/04/v07	Bacterial culture	-
7.	Quantitative antibiotic susceptibility testing	Microdilution method (automated)	SOP/A-OKM/04/v07; SOP/T-OKM/05v03; VITEK 2	Bacterial culture	-
8.	Microbiological examination of the lower respiratory tract	Microscopy; Aerobic culture	SOP/A-OKM/05/v04	Sputum, bronchoalveolar lavage, aspirate/ endotracheal cannula swab	-
9.	Antigens of infectious agents	Immunochromatography	SOP/A-OKM/05/v04 SOP/A-OKM/11/v07	Urine, stool	-
10.	Microbiological examination of upper respiratory tract	Aerobic culture	SOP/A-OKM/06/v05	Throat swab, nasal swab, oral swab, nasopharyngeal or laryngeal swab	-
11.	Microbiological examination of blood and primarily sterile body fluids	Aerobic culture; Anaerobic culture; (automated)	SOP/A-OKM/07/v05; SOP/T-OKM/09/v01; BD Bactec FX	Blood, punctate, effusion, cerebrospinal fluid	-
12.	Identification of the microorganism	Phenotyping	SOP/A - OKM/08/v08	Bacterial and yeast culture	-

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Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
13.	Identification of the microorganism	Mass spectrometry	SOP/A-OKM/08/v08; SOP/T-OKM/03/v03; MALDI Biotyper system – Microflex LT/SH	Bacterial and yeast culture	-
14.	Bacteriological examination of cerebrospinal fluid	Microscopy; Aerobic culture	SOP/A-OKM/09/v07	Cerebrospinal fluid	-
15.	Quantitative microbiological examination of urine	Aerobic culture	SOP/A-OKM/10/v04	Urine	-
16.	Microbiological examination of rectal swab and stool	Aerobic culture; Anaerobic culture	SOP/A-OKM/11/v07	Rectal swab, stool	-
17.	Identification of bacteria	Agglutination	SOP/A-OKM/11/v07	Bacterial culture	-
18.	Antibodies against infectious agents	Immunoassay with luminometric detection	SOP/A-OKM/20/v03; SOP/A-OKM/17/v02; SOP/A-OKM/18/v02; SOP/T-OKM/12/v05; LIAISON XL	Serum, plasma	-
19.	Antibodies against infectious agents	Immunoassay with photometric detection	SOP/A-OKM/19/v03	Serum, plasma	-
20.	Antibodies against infectious agents	Immunoblotting	SOP/A-OKM/16/v02	Serum, plasma, synovial fluid, joint punctate	-
21.	Antigens of infectious agents	Immunoassay with luminometric detection	SOP/A-Bioch/024/v06; cobas pro	Serum	.
22.	HIV markers	Immunoassay with luminometric detection	SOP/A-Bioch/025/v06; cobas pro	Serum	-

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Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
23.	Antigens of infectious agents	Immunoassay with luminometric detection	SOP/A-Bioch/026/v05; cobas pro	Serum	-
24.	Detection of nucleic acids of infectious agents	Real-Time PCR	SOP/A-OKM/26/v05; SOP/A-OKM/32/v05; SOP/T-OKM/16/v03; SOP/T-OKM/17/v02; RotorGene Q; CFX 96; CFX OPUS	Urine, semen, eye swab, vaginal swab, cervical smear, urethral swab, rectal and oropharyngeal swab	-
25.	Detection of nucleic acids of infectious agents	Real-Time PCR (automated)	SOP/A-OKM/46/v03; SOP/T-OKM/01/v02; GeneXpert XVI	Blood	-
26.	Detection of nucleic acids of infectious agents	RT Real-Time PCR (automated)	SOP/A-OKM/50/v02; SOP/A-OKM/36/v04; SOP/T-OKM/01/v02; GeneXpert XVI	Throat swab, nasopharyngeal swab, bronchial aspirate, blood	-
27.	Detection of nucleic acids of infectious agents	RT Real-Time PCR	SOP/A-OKM/51/v02; SOP/T-OKM/17/v02; CFX 96; CFX OPUS	nasopharyngeal swab, throat swab, bronchial aspirate, bronchial lavage	-
813 - Allergology and Immunology Laboratory					
1.	C-reactive protein (CRP)	Immunoturbidimetry	SOP/A-Bioch/030/v05; cobas pro	Serum	-

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Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
815 - Nuclear Medicine Laboratory					
1.	Hormones	Immunoassay with luminometric detection	SOP/A-Bioch/019/v05; SOP/A-Bioch/020/v06; SOP/A-Bioch/021/v05; SOP/A-Bioch/046/v04; SOP/A-Bioch/047/v04; cobas pro	Serum	-
2.	Tumour markers	Immunoassay with luminometric detection	SOP/A-Bioch/022/v05; SOP/A-Bioch/044/v04; cobas pro	Serum	-
3.	Myoglobin	Immunoassay with luminometric detection	SOP/A-Bioch/041/v05; cobas pro	Serum	-
818 - Haematology Laboratory					
1.	Blood count with a five-part differential leukocyte count	Flow cytometry; Impedance method; Photometry; Calculations	SOP/A-Hem/004/v09; SOP/A-Hem/012/v05; Calibrator XN 103656; SYSMEX XN-10	Blood	-
2.	Activated partial thromboplastin time	Coagulation method with optical detection of coagulum; Calculations	SOP/A-Hem/002/v06, 20.9.2020; Cal 0020003700 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-
3.	Prothrombin test	Coagulation method with optical detection of coagulum; Calculations	SOP/A-Hem/003/v05; Cal 0020003700 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-

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Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
4.	Reticulocytes	Flow cytometry; Impedance method; Calculations	SOP/A-Hem/007/v05; Sysmex XN 10	Blood	-
5.	Peripheral blood smear test	Microscopy	SOP/A-Hem/013/v05	Blood	-
6.	Peripheral blood smear test	Digital microscopy	SOP/A-Hem/013/v05; Sysmex DI-60	Blood	-
7.	Fibrinogen	Coagulation method with optical detection of coagulum	SOP/A-Hem/001/v04; Cal 0020003700 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-
8.	Antithrombin	Chromogenic method	SOP/A-Hem/005/v06; Cal 0020003700 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-
9.	Factor VIII	Coagulation method with optical detection of coagulum	SOP/A-Hem/008/v03; Cal 0020003700 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-
10.	D-dimers	Immunoturbidimetry	SOP/A-Hem/009/v03; Cal 0020007722 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-
11.	Anti – Xa	Chromogenic method	SOP/A-Hem/006/v05; Cal 0020300600 IL; ACL TOP 550; ACL TOP 500 IL	Plasma	-

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Specification of the scope of accreditation:

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
222/1	AB0, Rh and Kell
222/4	NAT, Enzyme
222/8	NAT, Enzyme
801/1	Na ⁺ , K ⁺ , Cl ⁻
801/2	Alanine transaminase (ALT), Aspartate transaminase (AST), Gamma-glutamyltransferase (GGT), Alkaline phosphatase (ALP), Alpha-amylase (Amylase total), Pancreatic alpha-amylase (Amylase pankreat)
801/4	Prostate-specific antigen - free (fPSA), Tumor-associated carbohydrate antigen (CA 125)
801/5	Total protein, albumin
801/6	Cholesterol, Triacylglycerols, HDL cholesterol, LDL cholesterol,
801/7	Uric acid, Urea, Creatinine
801/9	Troponin T (hs TNT), N-terminal proBNP fragment (NT-proBNP)
801/11	pH, pO ₂ , pCO ₂
802/1	Bacteria, yeast
802/2	Bacteria, yeast
802/3	Bacteria, yeast
802/4	Bacteria, yeast
802/7	Bacteria, yeast
802/9	<i>Legionella pneumophila</i> , <i>Streptococcus pneumoniae</i> , Adenoviruses, Noroviruses, Rotaviruses, <i>Helicobacter pylori</i> ,
802/10	Bacteria, yeast
802/14	Bacteria, yeast
802/15	Bacteria, yeast
802/17	Serotypization of salmonellas, shigellas, yersinias, <i>Vibrio cholerae</i> , <i>E. coli</i>

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Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
802/18	<i>Borrelia burgdorferi sensu lato</i> in class IgM and IgG (AB/BORR IgG CLIA, S_AB/BORR IgM CLIA, P_AB/BORR IgG CLIA, P_AB/BORR IgM CLIA); CMV (AB/CMV IgG CLIA, AB/BORR IgM CLIA); EBV (AB/VCA IgG CLIA, AB/VCA IgM CLIA, AB/EA IgG CLIA, AB/EBNA IgG CLIA)
802/19	<i>Clostridium tetani</i> in class IgG (S_AB/TET IgG Elisa)
802/20	<i>Borrelia burgdorferi sensu lato</i> in class IgM and IgG (S_WB Borr IgG, S_WB Borr IgM, P_WB Borr IgG, P_WB Borr IgM, J_WB Borr IgG, J_WB Borr IgM)
802/21	Hepatitis B: HBsAg
802/22	HIV 1,2 Ab total, HIV Ag p24
802/23	Hepatitis C: Anti-HCV total
802/24	DNA <i>Chlamydia trachomatis</i> ; DNA <i>Neisseria gonorrhoeae</i> ; RNA SARS-CoV-2
802/25	DNA HBV; RNA HCV
802/26	RNA SARS-CoV-2
802/27	RNA SARS-CoV-2
815/1	Free Triiodothyronine (FT3), Free Thyroxine (FT4), Thyrotropin (TSH), Parathormon, Human chorionic gonadotropin (HCG)
815/2	Prostate-specific antigen - total (PSA total), Carcinoembryonic antigen (CEA)
818/1	WBC - Leukocytes, RBC - Erythrocytes, HGB - Haemoglobin, HCT - Haematocrit, PLT - Thrombocytes, MPV –mean vol.trom , MCV - mean vol. eryt, MCH - mean hgb mass, MCHC - mean con. hgb, RDW - dis. ery width, PDW - dis. PLT width
818/2	APTT - time patient, APTT - time control, APTT - Ratio (R)
818/3	PT - time patient, PT - time control, PT - ratio, PT - INR
818/5	NK Neutrophils, NK Neutrophils absol, NK Lymphocytes, NK Lymphocytes absol, NK Monocytes, NK Monocytes absol, NK Eosinophils, NK Eosinophils absol, NK Basophils, NK Basophils absol

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Primary sample collection:

Ordinal Number	Sample collection technique	Identification of sample collection procedure	Collected material	Degrees of freedom ¹
1.	Venepuncture	SOP/COP/004/v03	Venous blood	-
2.	Capillary puncture	SOP/COP/004/v03	Capillary blood	-

Explanatory notes:

¹ The laboratory does not apply a flexible approach to the scope of accreditation

Real-Time PCR Quantitative polymerase chain reaction in real time

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "