

**The Appendix is an integral part of
Certificate of Accreditation No. 220/2021 of 09/04/2021**

Accredited entity according to ČSN EN ISO 15189:2013:

Fakultní nemocnice Olomouc
Clinical Biochemistry Department Laboratories
I. P. Pavlova 185/6, 779 00 Olomouc

Medical laboratory locations:

1. **Clinical Biochemistry Department Laboratories, Pavilion “I”**
I. P. Pavlova 185/6, 779 00 Olomouc
2. **Clinical Biochemistry Department Laboratories – Laboratory for Hereditary Metabolic Disorders, Pavilion “Q”**
I. P. Pavlova 185/6, 779 00 Olomouc

1. **Clinical Biochemistry Department Laboratories, Pavilion “I”**

Examination:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
801 – Clinical Biochemistry			
1.	Determination of amount-of- substance concentration of urea by photometry using an automatic analyzer [S_Urea] [U_Urea]	SOPV-035	Serum, urine
2.	Determination of amount-of- substance concentration of creatinine by photometry using an automatic analyzer [S_Kreatinin] [U_Kreatinin]	SOPV-034	Serum, urine
3.	Determination of amount-of- substance concentration of uric acid by photometry using an automatic analyzer [S_Močová kyselina] [U_Močová kyselina]	SOPV-033	Serum, urine
4.	Determination of amount-of- substance concentration of total bilirubin by photometry using an automatic analyzer [S_Bilirubin]	SOPV-045	Serum
5.	Determination of amount-of- substance concentration of sodium cation by electrochemical method using an automatic analyzer [S_Natrium] [U_Natrium]	SOPV-038	Serum, urine
6.	Determination of amount-of- substance concentration of potassium cation by electrochemical method using an automatic analyzer [S_Kalium] [U_Kalium]	SOPV-039	Serum, urine
7.	Determination of amount-of- substance concentration of chloride anion by electrochemical method using an automatic analyzer [S_Chloridy] [U_Chloridy]	SOPV-040	Serum, urine
8.	Determination of catalytic activity of ALT by photometry using an automatic analyzer [S_ALT]	SOPV-031	Serum
9.	Determination of catalytic activity of AST by photometry using an automatic analyzer [S_AST]	SOPV-016	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
10.	Determination of catalytic activity of ALP by photometry using an automatic analyzer [S_ALP]	SOPV-030	Serum
11.	Determination of catalytic activity of GGT by photometry using an automatic analyzer [S_GGT]	SOPV-036	Serum
12.	Determination of mass concentration of total protein by photometry using an automatic analyzer [S_Bílkovina celková]	SOPV-037	Serum
13.	Determination of mass concentration of albumin by photometry using an automatic analyzer [S_Albumin]	SOPV-032	Serum
14.	Determination of amount-of- substance concentration of total cholesterol by photometry using an automatic analyzer [S_Cholesterol]	SOPV-049	Serum
15.	Determination of amount-of- substance concentration of triacylglycerols by photometry using an automatic analyzer [S_Triacylglyceroly]	SOPV-050	Serum
16.	Determination of amount-of- substance concentration of glucose by photometry using an automatic analyzer [S_Glukóza]	SOPV-041	Serum
17.	Determination of catalytic activity of total amylase by photometry using an automatic analyzer [S_Alpha-amyláza]	SOPV-042	Serum
18.	Determination of amount-of- substance concentration of total calcium by photometry using an automatic analyzer [S_Kalcium]	SOPV-043	Serum
19.	Determination of amount-of- substance concentration of total magnesium by photometry using an automatic analyzer [S_Magnézium]	SOPV-044	Serum
20.	Determination of amount-of- substance concentration of total iron by photometry using an automatic analyzer [S_Železo]	SOPV-047	Serum
21.	Determination of amount-of- substance concentration of lactate by photometry using an automatic analyzer [P_Laktát]	SOPV-048	Plasma
22.	Determination of osmolality (concentration of osmotically active substances) by cryoscopic method using an automatic analyzer [S_Osmolalita, U_Osmolalita]	SOPV-009	Serum, urine

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
23.	Determination of ratio of amount- of-substance concentration of HbA1c and total Hb by HPLC method using an automatic analyzer [B_ Glykovaný hemoglobin A1c]	SOPV-008	Whole blood
24.	Chemical examination of urine by reflectance photometry, turbidimetry and refractometry using an automatic analyzer [Moč chemicky] ^{a)}	SOPV -271	Urine
25.	Determination of mass concentration of troponin I by immunochemistry using an automatic analyzer [S_Troponin I ultrasenzitivní]	SOPV-021	Serum
26.	Determination of count of urinary particles by automated microscopy [Moč sediment] ^{b)}	SOPV-095	Urine
27.	Determination of arbitrary amount-of-substance concentration of CA 125 by immunochemistry using an automatic analyzer [S_CA 125]	SOPV-051	Serum
28.	Determination of arbitrary amount-of-substance concentration of CA 19 - 9 by immunochemistry using an automatic analyzer [S_CA 19-9]	SOPV-052	Serum
29.	Determination of arbitrary amount-of-substance concentration of CA 15 - 3 by immunochemistry using an automatic analyzer [S_CA 15-3]	SOPV-053	Serum
30.	Determination of mass concentration of free PSA by immunochemistry using an automatic analyzer [S_PSA volný]	SOPV-058	Serum
31.	Determination of mass concentration of ELFO proteins using an automatic analyzer [S_Elektroforéza]	SOPV-091	Serum
32. - 33.	Reserved		
34.	Determination of mass concentration of CEA by immunochemistry using an automatic analyzer [S_CEA]	SOPV-054	Serum
35.	Determination of catalytic activity of LDH by photometry using an automatic analyzer [S_LDH]	SOPV-187	Serum
36.	Determination of mass concentration of albumin by nephelometry using an automatic analyzer [Csf_Albumin]	SOPV-234	CSF

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
37.	Determination of mass concentration of IgG by nephelometry using an automatic analyzer [Csf_IgG]	SOPV-233	CSF
38.	Determination of arbitrary amount-of-substance concentration of PAPP-A by immunochemistry using an automatic analyzer [S_PAPP-A]	SOPV-145	Serum
39.	Determination of mass concentration of free beta hCG by immunochemistry using an automatic analyzer [S_Free beta hCG]	SOPV-144	Serum
40.	Determination of pH, partial pressure of CO ₂ , partial pressure of O ₂ by potentiometry and amperometry using an automatic analyzer [B_pH], [B_pCO ₂], [B_pO ₂]	SOPV-098	Whole blood
41.	Reserved		
42.	Determination of mass concentration of proGRP by immunochemistry using an automatic analyzer [S_proGRP]	SOPV-242	Serum
43.	Determination of mass concentration of PIGF by immunochemistry using an automatic analyzer [S_PIGF]	SOPV-254	Serum
812 - Laboratory for pharmacology and toxicology of pharmaceuticals			
1.	Determination of mass concentration of theophylline by immunochemistry using an automatic analyzer [S_Theofylin]	SOPV-027	Serum
2.	Determination of mass concentration of carbamazepine by immunochemistry using an automatic analyzer [S_Karbamazepin]	SOPV-029	Serum
3.	Determination of mass concentration of valproic acid by immunochemistry using an automatic analyzer [S_Valproát]	SOPV-028	Serum
813 - Allergology and Immunology Laboratory			
1.	Determination of mass concentration of C-reactive protein by turbidimetry using an automatic analyzer [S_C-reaktivní protein]	SOPV-046	Serum
2.	Determination of mass concentration of procalcitonin by immunochemistry using an automatic analyzer [S_Prokalcitonin]	SOPV-020	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
3.	Determination of mass concentration of IgA by immunochemistry using an automatic analyzer [S_IgA]	SOPV-070	Serum
4.	Determination of mass concentration of IgG by immunochemistry using an automatic analyzer [S_IgG]	SOPV-071	Serum
5.	Determination of mass concentration of IgM by immunochemistry using an automatic analyzer [S_IgM]	SOPV-072	Serum
6.	Determination of mass concentration of free kappa light chains by immunochemistry using an automatic analyzer [S_Ig/L kappa free]	SOPV-073	Serum
7.	Determination of mass concentration of free lambda light chains by immunochemistry using an automatic analyzer [S_Ig/L lambda free]	SOPV-074	Serum
8.	Detection of oligoclonal IgG bands by immunochemistry using an automatic analyzer [S_Oligoklonální pásy IgG, CSF_Oligoklonální pásy IgG]	SOPV-096	Serum, CSF
9.	Detection of monoclonal fraction by immunofixation, immunochemistry using an automatic analyzer [S_Immunofixace]	SOPV-093	Serum
10.	Determination of mass concentration of prealbumin by turbidimetry using an automatic analyzer [S_Prealbumin]	SOPV-218	Serum
11.	Determination of mass concentration of transferrin by turbidimetry using an automatic analyzer [S_Transferin]	SOPV-219	Serum
815 – Nuclear Medicine Laboratory			
1.	Determination of mass concentration of myoglobin by immunochemistry using an automatic analyzer [S_Myoglobin]	SOPV-019	Serum
2.	Determination of arbitrary amount-of-substance concentration of TSH by immunochemistry using an automatic analyzer [S_TSH]	SOPV-024	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
3.	Determination of amount-of- substance concentration of bio- intact PTH 1-84 by immunochemistry using an automatic analyzer [S_PTH 1-84]	SOPV-246	Serum
4.	Determination of amount-of- substance concentration of free T4 by immunochemistry using an automatic analyzer [S_T4 volný]	SOPV-062	Serum
5.	Determination of amount-of- substance concentration of free T3 by immunochemistry using an automatic analyzer [S_T3 volný]	SOPV-063	Serum
6.	Determination of arbitrary amount-of-substance concentration of LH by immunochemistry using an automatic analyzer [S_LH]	SOPV-064	Serum
7.	Determination of arbitrary amount-of-substance concentration of FSH by immunochemistry using an automatic analyzer [S_FSH]	SOPV-065	Serum
8.	Determination of amount-of- substance concentration of estradiol by immunochemistry using an automatic analyzer [S_Estradiol]	SOPV-066	Serum
9.	Determination of mass concentration of folate by immunochemistry using an automatic analyzer [S_Folát]	SOPV-023	Serum
10.	Determination of mass concentration of vitamin B12 by immunochemistry using an automatic analyzer [S_Vitamin B12]	SOPV-026	Serum
11.	Determination of mass concentration of total PSA by immunochemistry using an automatic analyzer [S_PSA total]	SOPV-057	Serum
12.	Determination of mass concentration of AFP by immunochemistry using an automatic analyzer [S_AFP]	SOPV-059	Serum
13.	Determination of arbitrary amount-of-substance concentration of HCG by immunochemistry using an automatic analyzer [S_HCG+beta]	SOPV-060	Serum
14.	Determination of arbitrary amount-of-substance concentration of prolactin by immunochemistry using an automatic analyzer [S_PRL]	SOPV-067	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
15.	Determination of arbitrary amount-of-substance concentration of anti - Tg antibodies by immunochemistry using an automatic analyzer [S_Anti-Tg]	SOPV-068	Serum
16.	Determination of arbitrary amount-of-substance concentration of anti - TPO antibodies by immunochemistry using an automatic analyzer [S_Anti-TPO]	SOPV-069	Serum
17.	Determination of arbitrary amount-of-substance concentration of HGH by immunochemistry [S_Somatotropin]	SOPV-014	Serum
18.	Determination of mass concentration of NSE by immunochemistry using an automatic analyzer [S_NSE]	SOPV-055	Serum
19.	Determination of arbitrary amount-of-substance concentration of anti-TSH receptor-stimulating antibodies by immunochemistry [S_TSI]	SOPV-257	Serum

Names listed in [] correspond to the names in the results report.

Explanations:

a) Urine chemistry: U_Glucose, U_Protein, U_Bilirubin, U_Urobilinogen, U_pH, U_Blood, U_Ketones, U_Nitrites, U_Turbidity, U_Specific Gravity, U_Color
[U_Glukóza, U_Bílkovina, U_Bilirubin., U_Urobilinogen, U_pH, U_Krev, U_Ketony, U_Nitrity, U_Zákal, U_Specifická hmotnost, U_Barva]

b) Urine sediment: U_Erythrocytes, U_Leukocytes, U_Bacteria, U_Yeasts, U_Epithelial Cells, U_Squamous Epithelial Cells, U_Casts, U_Hyaline Casts, U_Granular Casts, U_Crystals, U_Sperm, U_Mucus
[U_Erythrocyty, U_Leukocyty, U_Bakterie, U_Kvasinky, U_Epitelie, U_Epitelie dlaždicovité, U_Válce, U_Válce hyalinní, U_válce granulované, U_Krystaly, U_Spermie, U_Hlen]

Primary sampling:

Ordinal number	Primary sampling Procedure name	Primary sampling Procedure identification	Primary sample
1.	Venous blood sampling	SOP-L015-M01/ODBĚŘŽK	Blood
2.	Capillary blood sampling	SOP-L015-M02/ODBĚŘKK	Blood

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2. Clinical Biochemistry Department Laboratories – Laboratory for Hereditary Metabolic Disorders, Pavilion “Q”

Examination:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
801 – Clinical Biochemistry			
1. – 31.	Reserved		
32.	Determination of amount-of- substance concentration of organic acids in urine by GC/MS method counted per mol of creatinine S [U_Organické kyseliny] ^{c)}	SOPV-097	Urine
33.	Determination of amount-of- substance concentrations of amino acids and acyl-carnitines for neonatal screening by tandem mass spectrometry method [BS_Neonatální screening] ^{d)}	SOPV-025	Blood spot
34. – 40.	Reserved		
41.	Determination of biotinidase activity in a blood spot by fluorimetry (neonatal screening of biotinidase) [BS_Biotinidáza fluorimetricky]	SOPV-259	Blood spot

Names listed in [] correspond to the names in the results report.

Explanations:

c) U_Organic acids: lactic, 2-hydroxyisobutyric, glycolic, pyroracemic, 2-hydroxybutyric, tartaric, 3-hydroxypropionic, isobutyric, 3-hydroxybutyric, 3-hydroxyisobutyric, 2-hydroxyisopentanoic, 2-hydroxyisopentanoic, 2-methyl-3- hydroxybutyric, propanedioic, methylmalonic, 3-hydroxyvaleric, 2-ethyl-3-hydroxypropionic, 2-hydroxyisocaproic, 4-hydroxybutyric, 2-hydroxy-3-methylvaleric, octanoic, 2-methyl-3-hydroxyvaleric, ethylmalonic, amber, 2,3-dihydroxybutyric, 5-hydroxyhexanoic, fumaric, valproic, glyoxylic, glutaric, 3,4-dihydroxybutyric, 3-methylglutaric, 3-methylglutaconic, glutaconic, 2-methylglutaconic, mevalonic, 2-methylglutaconic, adipic, 3-hydroxyadipic, 7-hydroxyoctanoic, 2-hydroxyglutaric, 3-hydroxyglutaric, phenylbutyric, 3-hydroxy-3-methylglutaric, 3-hydroxyphenylacetic, 4-hydroxycyclohexylacetic, 2-oxoglutaric, 4-hydroxyphenylacetic, N-acetylglutamic, octendioic, glutaconic, suberic, 4- hydroxyphenylpropionic, citric, homogentisic, methylcitric, 3-(3-OH-phenyl)-3-OH-propionic, decenedioic, sebacic, 3,6-epoxyoctanedioic, 4-hydroxyphenyllactic, hydroxydecanedioic, 3-hydroxysebacic, 1,12-dodecanedioic, 3,6- epoxydodecanedioic, propionylglycine, mevalonolactone, isobutyrylglycine, butyrylglycine, 5-oxoproline, 2-methylbutyrylglycine, 3- hydroxyadipolactone, isovalerylglycine, tiglylglycine, 3-methylcrotonylglycine, hexanoylglycine, N-acetylmethionine, phenylpropionylglycine, suberylglycine, N-acetyltyrosine

d) BS_Neonatal Screening:

amino acids and ratios: Phe, Phe/Tyr, Xle, Xle/Ala, (Xle+Val)/(Phe+Tyr), Val, Arg, Arg/Phe, Arg/Orn, Cit, Cit/Phe, Orn/Cit, ArgSucc, Met, Met/Phe
acyl-carnitines and ratios: C5, C5/C2, C5/C8, C5DC+C6OH, (C5DC+C6OH)/C8, (C5DC+C6OH)/C16, C6, C8, C8/C2, C8/C10, C10, C10:1, C14, C14:1, C14:1/C16 C16OH, C18OH, C18:1OH, C0, C16, C18, C18:1, C0/(C16+C18), (C16+C18:1)/C2