



List of activities within the flexible scope of accreditation

Accredited Body: Fakultní nemocnice Olomouc
CAB Name: Clinical Biochemistry Department Laboratories
CAB Number: 8254
Certificate of Accreditation No.: 615/2023
Field of Accreditation: Medical laboratory - ČSN EN ISO 15189:2013
Updated: 22/08/2024

1. Clinical Biochemistry Department Laboratories, Pavilion "I"

Zdravotníků 248/7, 779 00 Olomouc

Examination:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
801 – Clinical Biochemistry					
1.	Non-protein nitrogenous substances	Absorption spectrophotometry	SOPV-035, version 03; SOPV-034, version 05; SOPV-033, version 03; Atellica Solution CH 930	Serum, urine	A, B
2.	Bilirubin	Absorption spectrophotometry	SOPV-045, version 05; Atellica Solution CH 930	Serum	A, B
3.	Minerals	Potentiometry	SOPV-038, version 03; SOPV-039, version 03; SOPV-040, version 03; Atellica Solution CH 930	Serum, urine	A, B, C
4.	Minerals	Absorption spectrophotometry	SOPV-043, version 04; SOPV-044, version 04; SOPV-047, version 03; Atellica Solution CH 930	Serum	A, B, C
5.	Enzymes	Absorption spectrophotometry	SOPV-031, version 04; SOPV-016, version 04; SOPV-030, version 04; SOPV-036, version 04; SOPV-042, version 05; SOPV-187, version 04; Atellica Solution CH 930	Serum	A, B, C

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6.	Lipids	Absorption spectrophotometry	SOPV-049, version 04; SOPV-050, version 05; Atellica Solution CH 930	Serum	A, B, C
7.	Glucose	Absorption spectrophotometry	SOPV-041, version 04; Atellica Solution CH 930	Serum	A, B, D
8.	Lactate	Absorption spectrophotometry	SOPV-048, version 04; Atellica Solution CH 930	Plasma	A, B, D
9.	Cardiac Markers	Immunoassay with luminometric detection	SOPV-021, version 03; Atellica Solution IM 1600	Serum	A, B, C
10.	Proteins	Absorption spectrometry	SOPV-037, version 05; SOPV-032, version 03; Atellica Solution CH 930	Serum	A, B
11.	Serum protein fractions	Electrophoresis	SOPV-091, version 03; Hydrasys 2 Scan	Serum	A, B, D
12.	Osmolality	Cryoscopy	SOPV-009, version 02; Arkray OM-6060	Serum, urine	A, B
13.	Hemoglobin A1c	Capillary electrophoresis	SOPV-008, version 02; Capillarys 3 OCTA	Blood	A, B
14.	Chemical examination of urine	Reflection photometry; Absorption spectrometry; Turbidimetry; Refractometry	SOPV-271, version 01; iChem Velocity	Urine	A, B, C
15.	Morphological examination of urine	Digital microscopy	SOPV-095, version 02; iQ200	Urine	A, B

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16.	Tumor markers	Immunoassay with luminometric detection	SOPV-051, version 04; SOPV-052, version 03; SOPV-053, version 03; SOPV-058, version 04; SOPV-054, version 03; SOPV-242, version 02; SOPV-060, version 04; Cobas Pro e801; Access2; Alinity i	Serum	A, B, C
17.	Albumin	Immunonephelometry	SOPV-234, version 03; Atellica 630 NEPH	Cerebrospinal fluid	A, B
18.	Markers for the calculation of the risk of congenital defects	Immunoassay with fluorimetric detection	SOPV-145, version 03; SOPV-144, version 03; SOPV-254, version 02; Kryptor Compact	Serum	A, B, C
19.	Acid-base balance	Potentiometry; Amperometry	SOPV-098, version 01; ABL 825	Blood	A, B
812 - Laboratory for Pharmacology and Toxicology of Pharmaceuticals					
1.	Theophylline	Immunoturbidimetry	SOPV-027, version 02; Atellica Solution CH 930	Serum	A, B
2.	Antiepileptics	Immunoturbidimetry	SOPV-028, version 02; SOPV-029, version 02; Atellica Solution CH 930	Serum	A, B
813 - Allergology and Immunology Laboratory					
1.	Specific proteins	Immunoturbidimetry	SOPV-046, version 04; SOPV-218, version 04; SOPV-219, version 03; Atellica Solution CH 930	Serum	A, B, C
2.	Procalcitonin	Immunoassay with luminometric detection	SOPV-020, version 03; Atellica Solution IM 1600	Serum	A, B



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3.	Immunoglobulins	Immunoturbidimetry	SOPV-070, version 02; SOPV-071, version 02; SOPV-072, version 02; SOPV-073, version 02; SOPV-074, version 02; Optilite	Serum	A, B, C
4.	Immunoglobulins	Immunofixation Electrophoresis	SOPV-093, version 02 Hydrasys 2 Scan	Serum	A, B
5.	Immunoglobulins	Immunonephelometry	SOPV-233, version 04; Atellica 630 NEPH	Cerebrospinal fluid	A, B, C
6.	Oligoclonal IgG bands	Isoelectric focusing	SOPV-096, version 02 Hydrasys 2 Scan	Serum, cerebrospinal fluid	A, B
815 - Nuclear Medicine Laboratory					
1.	Myoglobin	Immunoassay with luminometric detection	SOPV-019, version 04 Atellica Solution IM 1600	Serum	A, B
2.	Hormones	Immunoassay with luminometric detection	SOPV-024, version 04; SOPV-062, version 04; SOPV-063, version 04; SOPV-064, version 02; SOPV-065, version 02; SOPV-066, version 02; SOPV-067, version 02; SOPV-014, version 04 Atellica Solution IM 1600; IDS-iSYS	Serum	A, B, C
3.	Vitamins	Immunoassay with luminometric detection	SOPV-023, version 03; SOPV-026, version 03; Atellica Solution IM 1600	Serum	A, B, C

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4.	Tumor markers	Immunoassay with luminometric detection	SOPV-057, version 04; SOPV-059, version 04; SOPV-055, version 03; Access2; Cobas Pro e801;	Serum	A, B, C
5.	Autoantibodies	Immunoassay with luminometric detection	SOPV-068, version 03; SOPV-069, version 03; SOPV-257, version 02; Atellica Solution IM 1600; Immulite 2000XPi	Serum	A, B, C
6.	Bone markers	Immunoassay with luminometric detection	SOPV-246, version 03; Cobas Pro e801;	Serum	A, B, C

Specification of the scope of accreditation:

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
801/1	Urea, Creatinine, Uric acid
801/3	Na ⁺ , K ⁺ , Cl ⁻
801/4	Ca, Mg, Fe
801/5	Alanine Aminotransferase (ALT), Aspartate Aminotransferase (AST), Alkaline Phosphatase (ALP), Gamma-glutamyl transferase (GGT), Alpha amylase (AMS), Lactate Dehydrogenase (LD)
801/6	Total cholesterol, Triacylglycerols (TAG)
801/9	High Sensitivity Troponin I
801/10	Total protein, Albumin
801/11	Albumin, Alpha-1-globulin, Alpha-2-globulin, Beta-1-globulin, Beta-2-globulin, Gamma-globulin
801/14	Glucose, Protein, Bilirubin, Urobilinogen, pH, Blood, Ketones, Nitrites, Turbidity, Specific Gravity, Color
801/15	Erythrocytes, Leukocytes, Bacteria, Yeasts, Epithelial Cells, Squamous Epithelial Cells, Casts, Hyaline Casts, Granular Casts, Crystals, Sperm, Mucus
801/16	Carbohydrate tumor antigens (CA 125, CA 19-9, CA 15-3), Free Prostate-specific Antigen (free PSA), Carcinoembryonic Antigen (CEA), Pro-Gastrin-Releasing Peptide (ProGRP), Human Chorionic Gonadotropin + beta subunit (hCG+beta)



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801/18	Pregnancy-associated plasma protein A (PAPP-A), Free beta-subunit of Human Chorionic Gonadotropin (free beta hCG), Placental growth factor (PIGF)
801/19	pH, pCO ₂ , pO ₂
812/2	Valproic acid, Carbamazepine
813/1	C-reactive protein, Prealbumin, Transferrin
813/3	IgG, IgM, IgA, Kappa free light chains, Lambda free light chains
813/4	IgG, IgM, IgA, IgD, IgE, Kappa light chains, Lambda light chains
813/5	IgG
815/2	Thyroid Stimulating hormone (TSH), Free Thyroxine (Free T ₄), Free Triiodothyronine (Free T ₃), Luteinizing hormone (LH), Follicle-stimulating hormone (FSH), Estradiol, Prolactin, Somatotropin (hGH)
815/3	Folate, Vitamin B12
815/4	Total Prostate-specific Antigen (Total PSA), Alpha-fetoprotein (AFP), Neuron-specific enolase (NSE)
815/5	Anti-Tg Antibodies (Anti-Tg), Anti-TPO Antibodies (Anti-TPO), Anti-TSH Receptor Antibodies (TSI)
815/6	Biointact Parathyroid Hormone (PTH 1-84)

Primary sampling:

Ordinal Number	Sample collection technique	Identification of sample collection procedure	Collected material	Degrees of freedom ¹
1.	Venipuncture	SOP-L015-M01/ODBĚRŽK, version 6	Venous blood	A, B
2.	Capillary puncture	SOP-L015-M02/ODBĚRKK, version 5	Capillary blood	A, B

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2. Clinical Biochemistry Department Laboratories Laboratory for Hereditary Metabolic Disorders, Pavilion "Q"

Zdravotníků 248/7, 779 00 Olomouc

Examination:

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
801 – Clinical Biochemistry					
1.	Organic acids	Gas chromatography with Mass spectrometry	SOPV-097, version 02; Trace GC Ultra Analyzer DSQ II	Urine	A, B, C
2.	Amino acids and acylcarnitines	Tandem mass spectrometry	SOPV-025, version 01; API 4000, AB Sciex TQ 6500, Sciex	Dry blood spot	A, B, C
3.	Biotinidase	Fluorimetry	SOPV-259, version 01; VICTOR X3, PerkinElmer	Dry blood spot	A, B

Specification of the scope of accreditation:

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
801/1	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, isovaleryl-glycine, tiglylglycine, 3-methylcrotonylglycine, hexanoylglycine, N-acetylmethionine, phenylpropionylglycine, suberyl-glycine, N-acetyltyrosine
801/2	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



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Explanatory notes:

¹ Established degrees of freedom according to MPA 00-09-...:

A – Flexibility concerning the documented examination/ sample collection procedure

B – Flexibility concerning the technique

C – Flexibility concerning the analytes / parameters

D – Flexibility concerning the examined material

If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for this examination.