

**The Appendix is an integral part of
Certificate of Accreditation No. 95/2021 of 04/02/2021**

Accredited entity according to ČSN EN ISO 15189:2013:

Krajská nemocnice Liberec, a.s.
Laboratory Medicine Center (CLM)
Husova 357/10, Liberec I-Staré Město, 460 01 Liberec

Medical laboratory locations:

1. **OKH - Clinical Haematology Department** Baarova 526/15, Liberec I – Staré Město, 460 01 Liberec
2. **TO - Transfusion Department** Baarova 526/15, Liberec I – Staré Město, 460 01 Liberec
3. **OKB - Clinical Biochemistry Department** Husova 357/10, Liberec I – Staré Město, 460 01 Liberec
4. **OKMI - Clinical Microbiology and Immunology Department** Husova 357/10, Liberec I – Staré Město, 460 01 Liberec
5. **Clinical Biochemistry and Haematology Laboratory** Nemocnice Frýdlant, V Úvoze 860, 464 01 Frýdlant

1. **OKH - Clinical Haematology Department**

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
818 - Haematology Laboratory			
1.	Determination of blood count and differential count of leukocytes on analyzer Abbott Cell-Dyn Sapphire and Alinity hq [Leukocytes [WBC], Erythrocytes [RBC], Haemoglobin [HGB], Haematocrit [HCT], Mean Corp.Vol. [MCV], Mean Corp.Hem. [MCH], Mean Corp.Hem.Conc. [MCHC], Red Cell Distr.Width [RDW], Thrombocytes [PLT], Mean Plat.Vol. [MPV], Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils Neutrophils-abs.count, Lymphocytes-abs.count, Monocytes-abs.count, Eosinophils-abs.count, Basophils-abs.count]	SOP B.24 SOP B.25	Peripheral blood
2.	Examination of prothrombin time – coagulation method with optical detection - Siemens BCS XP [Prothrombin time, Ratio PT, INR]	SOP C.7	Plasma

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
3.	Examination of activated partial thromboplastin time – coagulation method with optical detection - Siemens BCS XP [APTT, Ratio APTT]	SOP C.8	Plasma
4.	Examination of fibrinogen level - coagulation method with optical detection - Siemens BCS XP [Fibrinogen]	SOP C.10	Plasma
5.	Examination of antithrombin – chromogenic method with spectrophotometric detection - Siemens BCS XP [Antithrombin]	SOP C.11	Plasma
6.	Examination of peripheral blood smears microscopically and on the CellaVision DM 96 analyzer	SOP B.11	Peripheral blood
7.	Examination of D-Dimers – immunological method with optical detection – Siemens BCS XP [D-Dimer]	SOP C.13	Plasma

Names in parentheses [] are the names of examinations shown in the reports.

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2. TO – Transfusion Department

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
222 - Transfusion Medicine			
1.	Examination of AB0 RhD blood group by agglutination method in a test-tube [Blood group]	SOP D.0.3.1.	Blood
2.	Screening of irregular antibodies against erythrocytes by column agglutination method in DG Gel cards on Erytra [Screening of antibodies NAT]	SOP D.3.42.2.	Plasma, serum
3.	Examination of AB0 RhD blood group by column agglutination method in DG Gel cards on Erytra [Blood group E]	SOP D.3.42.1.	Blood
4.	Test of compatibility by column agglutination method in DG Gel cards on Erytra [Compatibility test E]	SOP D.3.42.3.	Plasma, serum

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3. OKB – Clinical Biochemistry Department

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
801 - Clinical Biochemistry			
1.	Determination of catalytic activity concentration of ALT by photometry [ALT]	SOP D3.1.4.1	Serum, plasma
2.	Determination of catalytic activity concentration of AST by photometry [AST]	SOP D3.1.4.6	Serum, plasma
3.	Determination of catalytic activity concentration of GGT by photometry [GGT]	SOP D3.1.4.12	Serum, plasma
4.	Determination of amount-of-substance concentration of glucose by photometry [Glucose]	SOP D3.1.4.13	Serum, plasma
5.	Determination of amount-of-substance concentration of cholesterol by photometry [Cholesterol]	SOP D3.1.4.14	Serum, plasma
6.	Determination of amount-of-substance concentration of sodium by indirect potentiometry [Sodium (Na)]	SOP D3.1.4.22	Serum, plasma
7.	Determination of amount-of-substance concentration of potassium by indirect potentiometry [Potassium (K)]	SOP D3.1.4.23	Serum, plasma
8.	Determination of amount-of-substance concentration of chlorides by indirect potentiometry [Chlorides (Cl)]	SOP D3.1.4.24	Serum, plasma
9.	Determination of amount-of-substance concentration of urea by photometry [Urea]	SOP D3.1.4.30	Serum, plasma
10.	Determination of amount-of-substance concentration of creatinine by photometry by Jaffé method [Creatinine]	SOP D3.1.4.10	Serum, plasma
11.	Determination of amount-of-substance concentration of uric	SOP D3.1.4.20	Serum, plasma

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
	acid by photometry [Uric acid]		
12.	Determination of amount-of-substance concentration of total bilirubin by photometry [Bilirubin]	SOP D3.1.4.7	Serum, plasma
13.	Determination of amount-of-substance concentration of triacylglycerols by photometry [Triacylglycerols]	SOP D3.1.4.19	Serum, plasma
14.	Determination of mass concentration of troponine T hs by electrochemiluminescence immunoassay [Troponin T hs]	SOP D3.2.2.1	Serum, plasma
15.	Determination of acid-base balance parameters: pH, pCO ₂ by potentiometry and pO ₂ by amperometry on ABL analyzers [B_pH, B_pCO ₂ , B_pO ₂]	SOP D3.6.2.1	Blood
16.	Determination of amount-of-substance ratio of glycated haemoglobin by high-performance liquid chromatography [Glyc.haemoglobin A1c]	SOP D3.9.1.1	Blood
813 - Allergology and Immunology Laboratory			
1.	Determination of mass concentration of C-reactive protein by immunoturbidimetry [C-reactive protein, CRP]	SOP D3.1.4.11	Serum, plasma
2.	Determination of mass concentration of immunoglobulin A by turbidimetry [Immunoglobulin A, IgA]	SOP D3.1.4.31	Serum, plasma
3.	Determination of mass concentration of immunoglobulin G by turbidimetry [Immunoglobulin G, IgG]	SOP D3.1.4.32	Serum, plasma
4.	Determination of mass concentration of immunoglobulin M by turbidimetry [Immunoglobulin M, IgM]	SOP D3.1.4.33	Serum, plasma

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
815 - Nuclear Medicine Laboratory			
1.	Determination of mass concentration of prostatic specific antigen by electrochemiluminescence immunoassay [Prost.spec.antigen, PSA]	SOP D3.2.1.2	Serum, plasma
2.	Determination of arbitrary amount-of-substance concentration of choriogonadotropin by electrochemiluminescence immunoassay [Choriogonadotropin, hCG]	SOP D3.2.1.3	Serum, plasma
3.	Determination of arbitrary amount-of-substance concentration of alpha fetoprotein by electrochemiluminescence immunoassay [Alpha-fetoprotein, AFP]	SOP D3.2.1.4	Serum, plasma
4.	Determination of arbitrary amount-of-substance concentration of PAPP-A by electrochemiluminescence immunoassay [PAPP-A]	SOP D3.2.3.1	Serum
5.	Determination of arbitrary amount-of-substance concentration of TSHS by electrochemiluminescence immunoassay on microparticles [TSH]	SOP D3.3.1.4	Serum, plasma
6.	Determination of arbitrary amount-of-substance concentration of immunoglobulin E by chemiluminescence immunoassay [Immunoglobulin E, IgE]	SOP D3.3.3.1	Serum

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Primary sample collection:

Ordinal number	Primary sample collection procedure name	Primary sample collection procedure identification	Primary sample
1.	Capillary blood sample collection	SPP F2.4	Capillary blood
2.	Venous blood sample collection	SPP F2.5	Venous blood

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4. **OKMI - Clinical Microbiology and Immunology Department**

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical microbiology			
1.	Bacteriological examination of urine by culture	SOP B001	Urine, catheterized urine
2.	Bacteriological examination of blood samples and primarily sterile body fluids	SOP B002	Blood, other primarily sterile body fluid
3.	Bacteriological examination of material from upper respiratory tract by culture	SOP B003	Nasal, nasopharyngeal, cervical, laryngeal smear
4.	Bacteriological examination of material from lower respiratory tract by culture and microscopically	SOP B004	Sputum, BAL, aspirate, suction catheter, smear from tracheostomy
5.	Bacteriological examination of stool and rectal swab by culture	SOP B007	Stool, rectal swab
6.	Bacteriological examination of abscesses, tissues, deep infections and material from primarily sterile locations by culture, or microscopy	SOP B009	Pus, punctate, exudate, lavage, drain content, tissue, stomach content, <i>Helicobacter pylori</i> biopsy
7.	Bacteriological examination of material from urogenital tract by culture and microscopy	SOP B010	Vaginal, cervical, urethral, cervical, rectal, vaginorectal swab smear from external genitalia ejaculate, amniotic fluid, lochia, placenta, urine
8.	Identification of bacteria by orientational and commercial phenotyping methods	SOP B011	Bacterial strain – liquid, or other biological material
9.	Identification of bacteria by MALDI-TOF mass spectrometry method	SOP B012	Bacterial strain
10.	Examination of bacteria sensitivity to antibiotics I. (disk diffusion method)	SOP B018	Bacterial strain
11.	Examination of bacteria sensitivity to antibiotics II. (method for the determination of MIC)	SOP B020	Bacterial strain
12.	Bacteriological examination of vascular catheters by culture	SOP B028	Arterial, venous, or other vascular catheters

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
13.	Bacteriological examination of cerebrospinal fluid by culture and microscopically	SOP B031	CSF
14.	Bacteriological examination of swabs and smears from eye, ear, paranasal sinuses, oral cavity, skin and nidi by culture, or microscopy	SOP B033	Swab from eye, ear, paranasal sinuses (incl. punctate) oral cavity smear, smear, swab from skin, nidi, wounds, etc.
15.	Bacteriological examination of drains, catheters and other foreign material by culture, or microscopy	SOP B034	Drain, catheter, foreign material (e.g. IUD)
16.	Mycological examination of clinical material by culture	SOP M001	Mucous membrane and skin swabs (for location, see the comments), ear swab, eye smear, deep wound smear, cornea scraping, pus, punctate, stomach content, stool, tissue, digestive tract biopsy, urine, sputum, sucked sputum, tracheal cannula, bronchial secretion, bronchial aspirate, bronchoalveolar lavage, cerebrospinal fluid, toenails, fingernails, smear from nail plate, skin flakes, smear from skin blisters and pustulae, yeast strain to be identified, mould strain to be identified
17.	Determination of <i>Leptospira sp.</i> antibodies by MAT method [Anti-L.icterohaemorrhagiae Fry, Anti-L.grippotyphosa P125, Anti-L.sejroe M84, Anti-L.pomona B.P., Anti-L.bratislava Jež Bratisl., Anti-L.copenhageni Lebe, Anti-L.grippotyphosa Ž6, Anti-L.istrica J20, Anti-L.pomona Šimon, Anti-L.jalna Jalná, Anti-L.sorex, Anti-L. canicola Canis C7, Anti-L. tarassovi DV-A]	SOP P010	Serum
18.	Examination of stool for parasites by Gomori trichrome-stained specimen method	SOP P023	Stool

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
19.	Examination of stool for cryptosporidiosis and cyclosporiasis by Miláček staining method	SOP P025	Stool
20.	Microscopic examination for the examination of pinworm and tapeworm eggs by Graham perianal smear method	SOP P026	Perianal smear
21.	Morphological identification of helminths	SOP P027	Stool
22.	Determination of total antibodies against <i>Toxoplasma gondii</i> by NIF method [anti T. gondii - NIF]	SOP P042	Serum
23.	Determination of IgG, IgM antibodies and IgG avidity against <i>Toxoplasma gondii</i> by CLIA method [anti T. gondii IgG, anti T. gondii IgM, anti T. gondii IgG avidity]	SOP P043	Serum
24.	Determination of IgA and IgE antibodies against <i>Toxoplasma gondii</i> by ELISA method [anti T. gondii IgA, anti T. gondii IgE]	SOP P044	Serum
25.	Determination of IgA, IgG antibodies and IgG avidity against <i>Toxocara canis</i> by ELISA method [anti T. canis IgG, anti T. canis IgA, anti T. canis avidity IgG]	SOP P045	Serum
26.	Determination of IgG and IgM antibodies against <i>Borrelia burgdorferi</i> sensu lato by ELISA method [anti B. burgdorferi s. l. IgG, anti B. burgdorferi s. l. IgM]	SOP P046	Serum
27.	Standard and specialized parasitological examination of stool	SOP P050	Stool

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
28.	Determination of anti- <i>Chlamydia</i> (species specific) IgG, IgM, IgA antibodies by ELISA method [anti <i>Chlamydia</i> sp. IgG, anti <i>Chlamydia</i> sp. IgM, anti <i>Chlamydia</i> sp. IgA]	SOP V004	Serum
29.	Determination of hepatitis A, B and C markers by CLIA method [anti HAV total, anti HAV IgM, HBsAg, HBsAg – confirmation, anti HBs, HBeAg, anti HBe, anti HBc total, anti HBc IgM, anti HCV]	SOP V012	Serum
30.	Determination of herpes virus antibodies by CLIA method [anti CMV IgG, anti CMV IgM, anti CMV IgG avidity, anti VCA IgG, anti EA IgG, anti EBNA IgG, anti VCA IgM]	SOP V013	Serum
813 - Allergology and Immunology Laboratory			
1.	Immunonephelometric determination of IgG, IgA and IgM by IMAGE analyzer [Immunoglobulin G, Immunoglobulin A, Immunoglobulin M]	SOP I008	Serum
2.	Determination of IgA endomysial antibodies by indirect immunofluorescence [EMA IgA IF, EMA IgA IF titration]	SOP I002	Serum
3.	Determination of <i>Saccharomyces cerevisiae</i> IgA and IgG antibodies by ELISA method by ALEGRIA analyser [ASCA IgA, ASCA IgG]	SOP I003	Serum
4.	Detection of anti smooth muscle, antimitochondrial, anti-LKM-1 antibodies on a rat tissue substrate by indirect immunofluorescence [AMA IF, AMA IF titration, anti - LKM-1 IF, ASMA IF, ASMA IF titration]	SOP I048	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
5.	RRR screening test for the examination of lues (RPR modification) [RPR (Cardiolipin precipitative)]	SOP I004	Serum
6.	Immunonephelometric determination of C3 and C4 complement components by IMMAGE analyzer [C3 complement, C4 complement]	SOP I009	Serum
7.	Immunonephelometric determination of rheumatoid factor on IMMAGE analyser [Rheumatoid factor]	SOP I011	Serum
8.	Determination of total antibodies against <i>Treponema pallidum</i> by CLIA method [Anti T. pallidum]	SOP I050	Serum
9.	Basic immunophenotyping of peripheral blood lymphocytes by flow cytometry method [CD3+, CD3+ abs., CD56/16+, CD56/16+ abs., CD19+, CD19+ abs., CD4+, CD4+ abs., CD8+, CD8+ abs.]	SOP I044	EDTA Blood
10.	Determination of C-reactive protein by nephelometry on IMMAGE analyzer [CRP]	SOP I045	Serum
11.	Determination of specific IgE against allergen mixtures and individual respiratory and food allergens by high-affinity FEIA method ¹⁾	SOP I046	Serum
12.	Detection of anti-nuclear antibodies on Hep-2 cell substrate by indirect immunofluorescence [ANP IF Screening, ANP IF Titration]	SOP I047	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
13.	Immunonephelometric determination of total IgE on IMMAGE analyzer [IgE]	SOP I016	Serum

Names in parentheses [] are the names of examinations shown in the reports.

Explanations:

¹⁾ Specification to SOP I046:

[sIgE mixture-Phadiatop, sIgE pollen of Timothy, sIgE rPhl p1 (timothy), sIgE rPhl p1,rPhl p5b (timothy), sIgE rPhl p5b (timothy), sIgE grass mix gx1, sIgE grass mix gx3, sIgE grass mix gx4, sIgE Annual ragweed, sIgE Common wormwood, sIgE Mugwort, sIgE mixture of weed wx1, sIgE mixture of weed wx3, sIgE Dermatophagoides pteronys, sIgE Dermatophagoides farinae, sIgE rDer p 1 (D. pteronyssin), sIgE rDer p 2 (D. pteronyssin), sIgE home dust, sIgE pollen of alder, sIgE pollen of birch, sIgE pollen of hazel, sIgE rBet v1 PR-10 (birch), sIgE rBet v2 Profilin (birch), sIgE rBet v4 (birch), sIgE tree mix tx9, sIgE Penicillium notatum, sIgE Cladosporium herbarum, sIgE Aspergillus fumigatus, sIgE Mucor racemosus, sIgE Candida albicans, sIgE Alternaria alternata, sIgE mixture of fungi mx1, sIgE honeybee, sIgE wasp, sIgE rApi m1 (bee), sIgE rVes v5 (wasp), sIgE rVes v1 (wasp), sIgE MUXF3 CCD, sIgE cat-hair, sIgE horse-hair, sIgE dog-hair, sIgE guinea pig epithelium, sIgE parakeet-droppings, sIgE parakeet-feathers, sIgE rabbit epithelium, sIgE hamster-epithelium, sIgE rabbit-urine, sIgE mixture of animal hair ex1, sIgE mixture of feathers ex73, sIgE Penicillin G, sIgE Penicillin V, sIgE Ampicillin, sIgE Amoxicillin, sIgE egg white, sIgE cow milk, sIgE cod, sIgE wheat flour, sIgE rye (secale cereale), sIgE sesame, sIgE peanuts, sIgE soya-beans, sIgE hazelnut, sIgE almond, sIgE tomato, sIgE orange, sIgE potato, sIgE garlic, sIgE apple, sIgE egg yolk, sIgE Alpha-lactalbumin, sIgE Beta-lactoglobulin, sIgE Casein, sIgE Gluten, sIgE kiwi, sIgE peach, sIgE cashew, sIgE poppy, sIgE nGal d2 Ovalbumin (egg), sIgE nGal d1 Ovomuroid (egg), sIgE cherry, sIgE walnut, sIgE rAra h8 (peanut), sIgE rAra h1 (peanut), sIgE rAra h2 (peanut), sIgE rAra h3 (peanut), sIgE rAra h9 (peanut), sIgE rMal d3 LTP (apple), sIgE food mix fx5, sIgE Latex, sIgE carrot, sIgE parrot-feathers, sIgE rApi m10 (bee)]

Primary sample collection:

Ordinal number ¹⁾	Primary sample collection procedure name	Primary sample collection procedure identification	Primary sample
1.	Collection of samples of clinical material for mycological examinations	SOP M008	Mucous membrane and skin swabs (for location, see the comments), ear swab, eye smear, samples of skin flakes and hair, smear from skin pustulae and blisters, samples of nails from hands and feet, nail plate smear

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Ordinal number ¹⁾	Primary sample collection procedure name	Primary sample collection procedure identification	Primary sample
2.*	Collection of samples of clinical material for parasitological examinations	SOP P040	Perianal smear, skin scraping, capillary blood
3.	Collection of samples of clinical material for bacteriological examinations	SOP B032	Nasal, nasopharyngeal, cervical, laryngeal, eye, ear, vaginal, cervical, urethral, rectal, vaginorectal swab other swabs, smears (lesions, pus, etc.)

¹⁾ Asterisk at the ordinal number identifies the sample collection procedures, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

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5. Clinical Biochemistry and Haematology Laboratory

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
801 - Clinical Biochemistry			
1.	Determination of catalytic activity concentration of ALT by photometry [ALT]	SOP D3.20.1.5	Serum, plasma
2.	Determination of catalytic activity concentration of AST by photometry [AST]	SOP D3.20.1.7	Serum, plasma
3.	Determination of catalytic activity concentration of GGT by photometry [GGT (GMT)]	SOP D3.20.1.22	Serum, plasma
4.	Determination of amount-of-substance concentration of glucose by photometry [Glucose]	SOP D3.20.1.21	Serum, plasma
5.	Determination of amount-of-substance concentration of cholesterol by photometry [Cholesterol]	SOP D3.20.1.17	Serum, plasma
6.	Determination of amount-of-substance concentration of sodium by indirect potentiometry [Sodium (Na)]	SOP D3.20.1.14	Serum, plasma
7.	Determination of amount-of-substance concentration of potassium by indirect potentiometry [Potassium (K)]	SOP D3.20.1.13	Serum, plasma
8.	Determination of amount-of-substance concentration of chlorides by indirect potentiometry [Chlorides (Cl)]	SOP D3.20.1.12	Serum, plasma
9.	Determination of amount-of-substance concentration of urea by photometry [Urea]	SOP D3.20.1.27	Serum, plasma
10.	Determination of amount-of-substance concentration of creatinine by photometry by Jaffé method [Creatinine]	SOP D3.20.1.23	Serum, plasma

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
11.	Determination of amount-of-substance concentration of uric acid by photometry [Uric acid]	SOP D3.20.1.24	Serum, plasma
12.	Determination of amount-of-substance concentration of total bilirubin by photometry [Bilirubin total]	SOP D3.20.1.8	Serum, plasma
13.	Determination of amount-of-substance concentration of triacylglycerols by photometry [Triacylglycerols]	SOP D3.20.1.26	Serum, plasma
14.	Determination of amount-of-substance ratio of glycated haemoglobin by high-performance liquid chromatography [Glyc.haemoglobin A1c]	SOP D3.20.4.1	Blood
815 - Nuclear Medicine Laboratory			
1.	Determination of arbitrary amount-of-substance concentration of TSHS by electrochemiluminescence immunoassay [TSH]	SOP D3.20.2.3	Serum, plasma

Names in parentheses [] are the names of examinations shown in the reports.