

**The Appendix is an integral part of
Certificate of Accreditation No 160/2024 of 08/04/2024**

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

Krajská nemocnice Liberec, a.s.
CAB Number 8237, Centrum laboratorní medicíny (CLM)
Husova 1430/34, 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 - Department of Clinical Biochemistry** Husova 1430/34, Liberec I – Staré Město, 460 01 Liberec
4. **OKMI - Clinical Microbiology and Immunology Department** Husova 1430/34, Liberec I – Staré Město, 460 01 Liberec
5. **Laboratory of Clinical Biochemistry and Haematology** Nemocnice Frýdlant, V Úvoze 860, 464 01 Frýdlant

The laboratory applies a flexible approach to the scope of accreditation.

The current "List of activities within the flexible scope" is available on the website <https://www.nemlib.cz/centrum-laboratorni-mediciny/>

1. OKH - Clinical Haematology Department

Examinations:

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
818 - Haematology Laboratory					
1.	Blood count	Flow cytometry; Impedance method; Photometry; Calculations	Commercial procedure	Blood	A, B, C
2.	Blood count with a five-part differential leukocyte count	Flow cytometry; Impedance method; Photometry; Calculations	Commercial procedure	Blood	A, B
3.	Differential leukocyte count	Microscopy	Published procedure	Blood	A, B
4.	Differential leukocyte count	Digital microscopy	Published procedure	Blood	A, B

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Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom¹
5.	Prothrombin test	Coagulation method with optical detection of coagulum; Calculations	Commercial procedure	Plasma	A, B
6.	Activated partial thromboplastin time	Coagulation method with optical detection of coagulum; Calculations	Commercial procedure	Plasma	A, B
7.	Fibrinogen	Coagulation method with optical detection of coagulum	Commercial procedure	Plasma	A, B
8.	Antithrombin	Chromogenic method	Commercial procedure	Plasma	A, B
9.	D-dimers	Immunoassay with turbidimetric detection	Commercial procedure	Plasma	A, B

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2. TO - Transfusion Department

Examinations:

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Vyšetřovaný materiál	Stupně volnosti¹
222 - Transfusion Medicine					
1.	Blood type	Agglutination in test tubes	Commercial procedure	Blood	A, B
2.	Blood type	Gel column agglutination	Commercial procedure	Blood	A, B, C
3.	Screening of anti-erythrocyte antibodies	Gel column agglutination	Commercial procedure	Plasma, serum	A, B
4.	Examination of compatibility	Gel column agglutination	Commercial procedure	Plasma, serum	A, B

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3. OKB - Department of Clinical Biochemistry

Examinations:

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
801 – Clinical Biochemistry					
1.	Minerals	Potentiometry	Commercial procedure	Body fluids	A, B, C, D
2.	Non-protein nitrogenous substances	Absorption spectrophotometry	Commercial procedure	Body fluids	A, B, C, D
3.	Saccharides	Absorption spectrophotometry	Commercial procedure	Body fluids	A, B, C, D
4.	Total bilirubin	Absorption spectrophotometry	Commercial procedure	Serum, plasma	A, B
5.	Enzymes	Absorption spectrophotometry	Commercial procedure	Serum, plasma	A, B, C
6.	Lipids	Absorption spectrophotometry	Commercial procedure	Serum, plasma	A, B, C
7.	Glycated haemoglobin	High-Performance Liquid Chromatography	Commercial procedure	Blood	A, B
8.	Cardiac markers	Immunoassay with luminometric detection	Commercial procedure	Serum, plasma	A, B, C
9.	Acid-base balance	Potentiometry; Amperometry	Commercial procedure	Blood	A, B, C
813 - Allergology and Immunology Laboratory					
1.	Proteins	Immunoturbidimetry	Commercial procedure	Body fluids	A, B, C, D
2.	Immunoglobulins	Immunoturbidimetry	Commercial procedure	Body fluids	A, B, C, D

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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.	Tumour markers	Immunoassay with luminometric detection	Commercial procedure	Serum, plasma	A, B, C
2.	Hormones	Immunoassay with luminometric detection	Commercial procedure	Serum, plasma	A, B, C
3.	Markers for the calculation of the risk of congenital developmental defects	Immunoassay with luminometric detection	Commercial procedure	Body fluids	A, B, C, D
4.	Immunoglobulins	Immunoassay with luminometric detection	Commercial procedure	Body fluids	A, B, C, D

Primary sample collection:

Ordinal Number	Sample collection technique	Identification of sample collection procedure	Collected material	Degrees of freedom ¹
1.	Fingerstick	Published procedure	Capillary blood	A, B
2.	Venepuncture	Published procedure	Venous blood	A, B

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4. OKMI - Clinical Microbiology and Immunology Department

Examinations:

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
802 – Medical Microbiology					
1.	Microbiological examination of urine, quantitative	Aerobic culture	Published procedure	Urine	A, B
2.	Microbiological examination of urine	Aerobic culture; Microscopy	Published procedure	Clinical material	A, B, D
3.	Microbiological examination of blood and primarily sterile body fluids	Aerobic culture; Anaerobic culture (automatic)	Published procedure; Commercial procedure	Clinical material	A, B, C, D
4.	Microbiological examination of upper respiratory tract	Aerobic culture	Published procedure	Clinical material	A, B, C, D
5.	Microbiological examination of lower respiratory tract	Aerobic culture; Anaerobic culture; Microscopy	Published procedure	Clinical material	A, B, C, D
6.	Microbiological examination of lower respiratory tract	Aerobic culture; Microscopy	Published procedure	Clinical material	A, B, C, D
7.	Microbiological examination of lower respiratory tract	Aerobic culture	Published procedure	Clinical material	A, B, C, D
8.	Microbiological examination for mycobacteria	Aerobic culture; Microscopy; Fluorescence microscopy	Published procedure; Commercial procedure	Clinical material	A, B, D
9.	Microbiological examination for mycobacteria	Aerobic culture	Published procedure	Clinical material	A, B, D
10.	Identification of mycobacteria	Phenotyping	Published procedure	Clinical material	A, B, D

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Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
11.	Microbiological examination of stool and rectal swab	Aerobic culture; Anaerobic culture	Published procedure	Stool, rectal swab	A, B
12.	Microbiological examination of clinical material	Aerobic culture	Published procedure	Clinical material	A, B, C, D
13.	Microbiological examination of clinical material	Anaerobic culture; Aerobic culture; Microscopy	Published procedure	Clinical material	A, B, C, D
14.	Microbiological examination of clinical material	Anaerobic culture; Aerobic culture	Published procedure	Clinical material	A, B, C, D
15.	Mycological examination of clinical material	Aerobic culture; Microscopy	Published procedure	Clinical material	A, B, C, D
16.	Microbiological examination for mycobacteria	Aerobic culture (automatic)	Published procedure; Commercial procedure	Clinical material	A, B, C, D
17.	Microbiological examination of urogenital tract	Aerobic culture; Microscopy	Published procedure	Clinical material	A, B, D
18.	Detection of <i>Neisseria gonorrhoeae</i>	Aerobic culture; Microscopy	Published procedure	Clinical material	A, B, D
19.	Identification of microorganism	Phenotyping	Published procedure	Bacterial culture/isolate	A, B
20.	Identification of microorganism	Agglutination	Published procedure	Bacterial culture/isolate	A, B
21.	Identification of microorganism	Mass spectrometry	Commercial procedure	Clinical material	A, B, D
22.	Qualitative examination of susceptibility of microorganism	Disk diffusion test	Published procedure	Microbiological culture	A, B, D

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Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
23.	Quantitative examination of susceptibility of microorganism	E-test	Published procedure	Microbiological culture	A, B, D
24.	Microbiological examination of cerebrospinal fluid	Aerobic culture; Microscopy	Published procedure	CSF	A, B
25.	Microbiological examination of foreign bodies	Aerobic culture; Anaerobic culture	Published procedure	Foreign bodies	A, B, C, D
26.	Microbiological examination of foreign bodies	Aerobic culture; Anaerobic culture; Microscopy	Published procedure	Foreign bodies	A, B, C, D
27.	Antibodies to leptospire	Microscopic agglutination test	Published procedure	Serum, plasma	A, B, C
28.	Parasitological examination of stool	Microscopy	Published procedure	Stool	A, B, C
29.	Enterobiosis examination	Microscopy	Published procedure	Perianal smear or imprint	A, B
30.	Morphological identification of the parasite	Macroscopic identification	Published procedure	Suspicious entity	A, B, D
31.	Antibodies to infectious agents	Immunoassay with photometric detection	Commercial procedure	Serum, plasma	A, B, C
32.	Antibodies to infectious agents	Indirect immunofluorescence	Published procedure; Commercial procedure	Serum, plasma	A, B, C
33.	Antibodies to infectious agents	Immunoassay with luminometric detection	Commercial procedure	Serum, plasma	A, B, C
34.	Antigens of infectious agents	Immunoassay with luminometric detection	Commercial procedure	Clinical material	A, B, C, D

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Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/equipment	Examined material	Degrees of freedom ¹
35.	Reagin test	Agglutination	Published procedure	Serum, plasma	A, B
813 - Allergology and Immunology Laboratory					
1.	Immunoglobulins	Immunoturbidimetry	Commercial procedure	Serum, plasma	A, B, C
2.	Specific proteins	Immunoturbidimetry	Commercial procedure	Serum, plasma	A, B, C
3.	Autoantibodies	Indirect immunofluorescence	Published procedure; Commercial procedure	Serum, plasma	A, B, C
4.	Immunophenotyping of leukocytes	Flow cytometry	Commercial procedure	Blood	A, B, C
5.	Specific IgE	Immunoassay with fluorimetric detection	Commercial procedure	Serum, plasma	A, B, C
6.	Antibodies to <i>Saccharomyces cerevisiae</i>	Immunoassay with photometric detection	Commercial procedure	Serum, plasma	A, B

Primary sample collection:

Ordinal Number	Sample collection technique	Identification of sample collection procedure	Collected material	Degrees of freedom ¹
1.	Smear	Published procedure	Smears of skin, soft tissue, ear, eye, perianal smear, smears (of lesions, pus, etc.), smears of skin pustulae and blisters, smear of nail plate	A, B
2.	Swab	Published procedure	Nasal, nasopharyngeal, cervical, laryngeal, eye, ear, vaginal, cervical, urethral, rectal, vaginorectal, urogenital swab	A, B
3.	Collection	Published procedure	Nails, skin flakes, hair, samples of skin flakes, hair, samples from fingernails, toenails	A, B
4.	Scraping	Published procedure	Skin scraping, nail scraping	A, B

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Ordinal Number	Sample collection technique	Identification of sample collection procedure	Collected material	Degrees of freedom ¹
5.	Fingerstick	Published procedure	Capillary blood	A, B

5. Laboratory of Clinical Biochemistry and Haematology

Examinations:

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of procedure/ equipment	Examined material	Degrees of freedom ¹
801 – Clinical Biochemistry					
1.	Minerals	Potentiometry	Commercial procedure	Body fluid	A, B, C, D
2.	Non-protein nitrogenous substances	Absorption spectrophotometry	Commercial procedure	Body fluid	A, B, C, D
3.	Saccharides	Absorption spectrophotometry	Commercial procedure	Body fluid	A, B, C, D
4.	Total bilirubin	Absorption spectrophotometry	Commercial procedure	Serum, plasma	A, B
5.	Enzymes	Absorption spectrophotometry	Commercial procedure	Serum, plasma	A, B, C
6.	Lipids	Absorption spectrophotometry	Commercial procedure	Serum, plasma	A, B, C
7.	Glycated haemoglobin	High-Performance Liquid Chromatography	Commercial procedure	Blood	A, B
815 - Nuclear Medicine Laboratory					
1.	Hormones	Immunoassay with luminometric detection	Commercial procedure	Serum, plasma	A, B, C

Explanatory notes:

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

A – Flexibility concerning the documented examination/ sample collection procedure

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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.