

# Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



## Certificate of Accreditation

### Centre of Medical Laboratory

*Mongolia-Japan Hospital of the Mongolian National University of Medical Sciences*

*Bayanzurkh district, 12 Khoroo, Botanical Garden,*

*Ulaanbaatar-13270, Mongolia*

*has been assessed and accredited in accordance with the Standard*

**ISO 15189:2022**

*“Medical Laboratories - Requirements for Quality and Competence”*

*In the field of*

**Medical Testing**

*This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued compliance to the above standard & any other requirements specified by QAI.*



**QAI/CIA/ML/2024/0020**

*Valid from: 30 June 2024*

*Valid until: 29 June 2026*

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

*User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)*



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Clinical Biochemistry			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
1.	Serum/Plasma	ALT	Photometric and Immunoturbidimetric system
2.	Serum/Plasma	ALT	Spectrophotometric system
3.	Serum/Plasma	AST	Photometric and Immunoturbidimetric system
4.	Serum/Plasma	AST	Spectrophotometric system
5.	Serum/Plasma	LDH	Photometric and Immunoturbidimetric system
6.	Serum/Plasma	ALP	Photometric and Immunoturbidimetric system
7.	Serum/Plasma	ALP	Colorimetric assay
8.	Serum/Plasma	AMY	Photometric and Immunoturbidimetric system
9.	Serum/Plasma	AMY	Enzymatic, colorimetric method
10.	Serum/Plasma	GGT	Photometric and Immunoturbidimetric system
11.	Serum/Plasma	GGT	Enzymatic, colorimetric method
12.	Serum/Plasma	TG	Photometric and Immunoturbidimetric system
13.	Serum/Plasma	TG	Enzymatic, colorimetric method
14.	Serum/Plasma	T-CHOL	Photometric and Immunoturbidimetric system
15.	Serum/Plasma	T-CHOL	Enzymatic, colorimetric method

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Clinical Biochemistry			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
16.	Serum/Plasma	HDL	Photometric and Immunoturbidimetric system
17.	Serum/Plasma	HDL	Homogeneous enzymatic colorimetric test
18.	Serum/Plasma/Body fluid	GLU	Photometric and Immunoturbidimetric system
19.	Serum/Plasma/Supernatant/CSF/ Whole blood	GLU	Enzymatic reference method
20.	Serum/Plasma	T-Bil	Photometric and Immunoturbidimetric system
21.	Serum/Plasma	T-Bil	Colorimetric diazo method
22.	Serum/Plasma	D-Bil	Photometric and Immunoturbidimetric system
23.	Serum/Plasma	D-Bil	Diazo method
24.	Serum/Plasma	CK-MB	Photometric and Immunoturbidimetric system
25.	Serum/Plasma	LDL	Photometric and Immunoturbidimetric system
26.	Serum/Plasma	LDL	Enzymatic colorimetric assay
27.	Serum/Plasma/Body fluid	TP	Photometric and Immunoturbidimetric system
28.	Serum/Plasma/Supernatant/CSF/ Urine	TP	Colorimetric assay
29.	Serum/Plasma/Body fluid	ALB	Photometric and Immunoturbidimetric system

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Clinical Biochemistry			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed Examination	Standard (Method), Principle/ Methodology or Technique Used
30.	Serum/Plasma	ALB	Colorimetric assay
31.	Serum/Plasma	Ca	Photometric and Immunoturbidimetric system
32.	Serum/Plasma	PO <sub>3</sub>	Photometric and Immunoturbidimetric system
33.	Serum/Plasma	Fe	Photometric and Immunoturbidimetric system
34.	Serum/Plasma	Fe	Colorimetric assay
35.	Serum/Plasma	UIBC	Photometric and Immunoturbidimetric system
36.	Serum/Plasma	CREA-P	Photometric and Immunoturbidimetric system
37.	Serum/Plasma	CREJ	Colorimetric assay
38.	Plasma, CSF	LACT	Photometric and Immunoturbidimetric system
39.	Plasma, CSF	LACT	Colorimetric assay
40.	Serum/Plasma	LIPASE	Photometric and Immunoturbidimetric system
41.	Serum/Plasma	LIPASE	Enzymatic colorimetric assay
42.	Serum/Plasma	Mg	Photometric and Immunoturbidimetric system
43.	Serum/Plasma	Mg	Colorimetric method
44.	Serum/Plasma	P-AMY	Photometric and Immunoturbidimetric system
45.	Serum/Plasma	P-AMY	Enzymatic colorimetric method

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Clinical Biochemistry			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
46.	Serum/Plasma	UREA	Photometric and Immunoturbidimetric system
47.	Serum/Plasma	UA	Photometric and Immunoturbidimetric system
48.	Serum/Plasma	UA	Enzymatic colorimetric test
49.	Serum/Plasma	Na	Photometric and Immunoturbidimetric system
50.	Serum/Plasma	Na	Ion-specific electrode measuring system
51.	Serum/Plasma	K	Photometric and Immunoturbidimetric system
52.	Serum/Plasma	K	Ion-specific electrode measuring system
53.	Serum/Plasma	Cl	Photometric and Immunoturbidimetric system
54.	Serum/Plasma	Cl	Ion-specific electrode measuring system
55.	Serum/Plasma	CK	Photometric method
56.	Serum/Plasma	Complement C3	Immunoturbidimetric assay
57.	Serum/Plasma	Complement C4	Immunoturbidimetric assay
58.	Serum/Plasma	IG A	Immunoturbidimetric assay
59.	Serum/Plasma	IG G	Immunoturbidimetric assay
60.	Serum/Plasma	IG M	Immunoturbidimetric assay
61.	Serum/Plasma	Rheumatoid factor	Immunoturbidimetric assay

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Clinical Biochemistry			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
62.	Serum/Plasma	RF	Photometric and Immunoturbidimetric system
63.	Serum/Plasma	CRP	Immunoturbidimetric assay
64.	Serum/Plasma	HbA1C	Turbidimetric inhibition immunoassay (TINIA)
65.	Serum/Plasma	ASLO	Photometric and Immunoturbidimetric system
66.	Serum/Plasma	FERR	Photometric and Immunoturbidimetric system

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Immunology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed Examination	Standard (Method), Principle/ Methodology or Technique Used
1.	Serum/Plasma	AFP	2 step sandwich- chemiluminescence immunoassay
2.	Serum/Plasma	AFP	Sandwich- chemiluminescence immunoassay
3.	Serum/Plasma	CA19-9	2 step sandwich- chemiluminescence immunoassay
4.	Serum/Plasma	CA19-9	Indirect sandwich- chemiluminescence immunoassay
5.	Serum/Plasma	TSH	1 step sandwich- chemiluminescence immunoassay
6.	Serum/Plasma	TSH	Sandwich- chemiluminescence immunoassay
7.	Serum/Plasma	FT3	1 step sandwich- chemiluminescence immunoassay
8.	Serum/Plasma	FT3	Competitive chemiluminescence immunoassay
9.	Serum/Plasma	FT4	2 step sandwich- chemiluminescence immunoassay
10.	Serum/Plasma	FT4	Competitive chemiluminescence immunoassay
11.	Serum/Plasma	PSA	2 step sandwich- chemiluminescence immunoassay
12.	Serum/Plasma	PSA	Indirect chemiluminescence immunoassay
13.	Serum/Plasma	CA125	2 step sandwich- chemiluminescence immunoassay

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Immunology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed Examination	Standard (Method), Principle/ Methodology or Technique Used
14.	Serum/Plasma	CA125	Indirect chemiluminescence immunoassay
15.	Serum/Plasma	CEA	2 step sandwich- chemiluminescence immunoassay
16.	Serum/Plasma	CEA	Indirect chemiluminescence immunoassay
17.	Serum	PIVKA	2 step sandwich- chemiluminescence immunoassay
18.	Serum	PIVKA	Sandwich chemiluminescence immunoassay
19.	Serum/Plasma	Insulin	2 step sandwich- chemiluminescence immunoassay
20.	Serum/Plasma	Insulin	Indirect chemiluminescence immunoassay
21.	Serum/Plasma	C-peptide	Sandwich chemiluminescence immunoassay
22.	Serum/Plasma	Anti-CCP	Indirect chemiluminescence immunoassay
23.	Serum/Plasma	CA 72-4	Indirect chemiluminescence immunoassay
24.	Serum/Plasma	CA 15-3	Indirect chemiluminescence immunoassay
25.	Serum/Plasma	Anti-TG	Indirect chemiluminescence immunoassay

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Immunology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
26.	Serum/Plasma	Anti-TG	Two-step enzyme immunoassay sandwich method with a final fluorescent
27.	Serum/Plasma	Anti-TPO	Indirect chemiluminescence immunoassay
28.	Serum/Plasma	Anti-TPO	Two-step enzyme immunoassay sandwich method with a final fluorescent
29.	Serum/Plasma	Total T3	Competitive chemiluminescence immunoassay
30.	Serum/Plasma	Total T4	Competitive chemiluminescence immunoassay
31.	Serum/Plasma	Anti-TSHR	Indirect chemiluminescence immunoassay
32.	Serum/Plasma	25-OH Vitamin D	Enzyme linked fluorescent assay
33.	Serum/Plasma	25-OH Vitamin D	Indirect chemiluminescence immunoassay
34.	Serum/Plasma	LH	Enzyme linked fluorescent assay
35.	Serum/Plasma	FSH	Enzyme linked fluorescent assay
36.	Serum/Plasma	Prolactin	Enzyme linked fluorescent assay
37.	Serum/Plasma	Progesterone	Enzyme linked fluorescent assay
38.	Serum/Plasma	Estradiol	Enzyme linked fluorescent assay
39.	Serum/Plasma	Testosterone	Enzyme linked fluorescent assay
40.	Serum/Plasma	Anti-dsDNA IgG	Indirect chemiluminescence immunoassay

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Immunology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
41.	Serum/Plasma	ANA Screen	Indirect chemiluminescence immunoassay
42.	Serum/Plasma	PCT	Sandwich chemiluminescence immunoassay
43.	Serum/Plasma	PCT	Enzyme linked fluorescent assay
44.	Serum/Plasma	NT-proBNP	Enzyme linked fluorescent assay
45.	Serum/Plasma	hs-cTnI	Indirect chemiluminescence immunoassay
46.	Serum/Plasma	hs-cTnI	Enzyme linked fluorescent assay



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Clinical Pathology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed Examination	Standard (Method), Principle/ Methodology or Technique Used
1.	Urine	RBC	Fluorescent flow cytometry
2.	Urine	NL RBC	Fluorescent flow cytometry
3.	Urine	WBC	Fluorescent flow cytometry
4.	Urine	WBC Clumps	Fluorescent flow cytometry
5.	Urine	EC	Fluorescent flow cytometry
6.	Urine	Squa.EC	Fluorescent flow cytometry
7.	Urine	Non-SEC	Fluorescent flow cytometry
8.	Urine	Tran.EC	Fluorescent flow cytometry
9.	Urine	RTEC	Fluorescent flow cytometry
10.	Urine	CAST	Fluorescent flow cytometry
11.	Urine	Hy. CAST	Fluorescent flow cytometry
12.	Urine	Path. CAST	Fluorescent flow cytometry
13.	Urine	BACT	Fluorescent flow cytometry
14.	Urine	X'TAL	Fluorescent flow cytometry
15.	Urine	YLC	Fluorescent flow cytometry
16.	Urine	Sperm	Fluorescent flow cytometry
17.	Urine	Mucus	Fluorescent flow cytometry
18.	Urine	URO	Azo coupling method
19.	Urine	BLD	Peroxidase-like reaction of the haemoglobin
20.	Urine	PRO	Protein error of pH indicator
21.	Urine	GLU	Enzymatic method (GOD, POD)
22.	Urine	KET	Alkali nitroprusside method
23.	Urine	BIL	Azo coupling method

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Clinical Pathology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed Examination	Standard (Method), Principle/ Methodology or Technique Used
24.	Urine	NIT	Griess method
25.	Urine	LEU	Leukocyte esterase activity
26.	Urine	pH	pH indicator method
27.	Urine	CRE	Benedict-Behre method
28.	Urine	ALB	Protein error of pH indicator
29.	Urine	S.G	Refractometer method



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Microbiology & Serology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
1.	Swab (wound, cervical, throat, pharynx), biopsy and body fluid	Bacterial and fungal culture, antimicrobial susceptibility testing	Aerobic culture, morphological and biochemical tests, supplemented as needed by specialized tests such as serotyping and antibiotic inhibition patterns.
2.	Blood	Blood culture, antimicrobial Susceptibility Testing	Automated blood culture, Aerobic culture, morphological and biochemical tests, supplemented as needed by specialized tests such as serotyping and antibiotic inhibition patterns.
3.	Feces	H. pylori Ag strip test	Manual
4.	Cervical and vaginal swab	Gram stain	Manual, Microscope, Nugent score
5.	Feces	Rota/Adeno Ag strip test	Manual
6.	Serum/Plasma	HBsAg	2 step sandwich- chemiluminescence immunoassay
7.	Serum/Plasma/Whole blood	HBsAg	Rapid test/ Immunochromatography
8.	Serum/Plasma	Anti-HBs	1 step sandwich- chemiluminescence immunoassay
9.	Serum/Plasma	Anti-HBs	Indirect chemiluminescence immunoassay
10.	Serum/Plasma	Anti-HCV	2 step sandwich- chemiluminescence immunoassay
11.	Serum/Plasma/Whole blood	Anti-HCV	Rapid test/ Immunochromatography
12.	Serum/Plasma	Anti-HBe	2 step competitive chemiluminescence immunoassay

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Microbiology & Serology				
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed	Examination	Standard (Method), Principle/ Methodology or Technique Used
13.	Serum/Plasma	Anti-HBe		Competitive chemiluminescence immunoassay
14.	Serum/Plasma	Anti-HBc		2 step sandwich- chemiluminescence immunoassay
15.	Serum/Plasma	HBeAg		Sandwich chemiluminescence immunoassay
16.	Serum/Plasma	HBeAg		2 step sandwich- chemiluminescence immunoassay
17.	Serum/Plasma	HIV Ag+Ab		2 step sandwich- chemiluminescence immunoassay
18.	Serum/Plasma/Whole blood	HIV AG+Ab		Rapid test/ Immunochromatography
19.	Serum/Plasma	Anti-TP		2 step sandwich- chemiluminescence immunoassay
20.	Serum/Plasma/Whole blood	Syphilis AB		Rapid test/ Immunochromatography



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Haematology, Coagulation and Immunohaematology			
Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Examination Performed	Standard (Method), Principle/ Methodology or Technique Used
1.	Whole blood	White blood cell count	Fluorescence flow cytometry
2.	Whole blood	Red blood cell count	Electrical impedance
3.	Whole blood	Haemoglobin concentration	Photometric analysis (SLS-haemoglobin method)
4.	Whole blood	Haematocrit	Calculated from RBC and MCV
5.	Whole blood	Mean corpuscular volume	Electrical impedance
6.	Whole blood	Mean corpuscular haemoglobin	Calculated from HGB and RBC
7.	Whole blood	Mean corpuscular haemoglobin concentration	Calculated from HGB and HCT
8.	Whole blood	Platelet count	Fluorescence flow cytometry and electrical impedance
9.	Whole blood	Erythrocytes sedimentation rate	Photometric method for measuring the aggregation of RBCs within a specified time
10.	Citrated whole blood	PT	Clotting time assay (optical or mechanical)
11.	Citrated whole blood	APTT	Clotting time assay (optical or mechanical)
12.	Citrated whole blood	TT	Clotting time assay (optical or mechanical)
13.	Citrated whole blood	FIB	Clotting time assay (Claus Method)
14.	Citrated whole blood	DD	Immunoturbidimetric assay
15.	Citrated whole blood	AT3	Clotting time assay (chromogenic assay)
16.	Whole blood	Blood type	The tube method, manual

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#### Haematology, Coagulation and Immunohaematology

Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed	Examination	Standard (Method), Principle/ Methodology or Technique Used
17.	Whole Blood	Rh factor		The tube method, manual

#### Cytopathology

Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed	Examination	Standard (Method), Principle/ Methodology or Technique Used
1.	Cytopathology (gynaecological and non- gynaecological)	Fixation, Pap staining, cover slipping		Light microscopy with interpretation

#### Histopathology

Sl. No.	Type of Sample Examined/ Tested	Specific Tests/ Performed	Examination	Standard (Method), Principle/ Methodology or Technique Used
1.	Histopathology (small, medium, large tissue samples and post mortem examination)	Grossing, decalcification, processing, paraffin-embedding, microtomy and H&E staining		Light microscopy with interpretation

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