



# ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006  
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

**Pathology Laboratory, United Hospital Ltd.**

**Plot#15, Road#71, Gulshan**

**Dhaka-1212, Bangladesh**

This is to certify that this

## **Medical Laboratory**

is accredited in accordance with the international standard

## **ISO 15189:2012**

in respect of the associated scope, subject to the terms and  
conditions governing the relevant conformity assessment  
body (CAB) accreditation.

Certificate Number : **03.001.14**  
Accreditation Date : **04 December 2014**  
Date of Issuance : **15 December 2020**  
Date of Expiration : **03 December 2022**



**Md. Monwarul Islam**  
**Director General**

## SCOPE OF ACCREDITATION

<b>CAB Name &amp; Address:</b>	Pathology Laboratory, United Hospital Ltd. Plot #15, Road#71, Gulshan, Dhaka-1212, Bangladesh		
<b>Accreditation Standard:</b>	ISO 15189:2012	<b>Accreditation Date:</b>	04 December 2014
<b>Certificate Number:</b>	03.001.14	<b>Issued on:</b>	15 December 2020
<b>Last Amended on:</b>	14 September 2021	<b>Valid until:</b>	03 December 2022
<b>Amendment no:</b>	01		


S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Clinical Hematology</b>				
1	Blood (Whole blood)	Complete Blood Count(CBC)	Optical impedance and Optical Flow Cytometry (Sysmex XN-1000)	WBC: 0.0-440X 10 <sup>3</sup> / μL RBC: 0.0-8X10 <sup>6</sup> / μL PLT: 0.0-2000 X10 <sup>3</sup> / μL Hemoglobin: 0.0-25.0 g/dl HCT: 0.0-75.0%
2	Citrated Blood (Plasma)	Prothrombin time(PT) With INR	Photo Optical density Method (Sysmex CA-550/ CS-1600 )	7 - 120 Second
3	Citrated Blood (Plasma)	Activated Partial thromboplastin time (APTT)	Photo Optical density Method (Sysmex CA-550/ CS-1600 )	15 - 190 Second
4	Citrated Blood (Plasma)	Fibrinogen	Photo Optical density Method (Sysmex CA-550/ CS-1600 )	0.5 - 10.0 g/L
5	Blood (Whole blood)	Reticulocyte Count	Flow Cytometry method using semiconductor laser (Sysmex XN-1000)	0.0 - 99.99 %
6	Blood (Whole blood)	Erythrocyte Sedimentation Rate	Photometrical capillary stopped flow kinetic analysis	2- 120 mm/h
7	Blood (whole blood and serum)	Anti human globulin(Coombs Test- Direct and Indirect)	Red cell agglutination	N/A
8	Blood (whole blood and serum)	Rhesus (Rh) anti body detection	Red cell agglutination	N/A
<b>Field: Clinical Biochemistry</b>				
9	Blood (Plasma)	Plasma Glucose	Hexokinase (G-6-PDH) in Alinity Ci. Hexokinase (G-6-PDH) in Beckman Coulter AU680.	0.28-44.40 mmol/L 0.6-45 mmol /L
10	Blood (Serum)	Total Cholesterol	Enzymatic method in Alinity Ci CHO-POD in Beckman Coulter AU680.	Up to 705.0 mg/dl 20-700 mg/dl
11	Blood (Serum)	HDL Cholesterol	Accelerator selective detergent in Alinity Ci. Enzymatic Immuno Inhibition in Beckman Coulter AU680.	5-180 mg/dl 2-180 mg/dl

  
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12	Blood (Serum)	LDL Cholesterol	Liquid selective Detergent in <b>Alinity Ci.</b> Enzymatic Selective Protection in Beckman Coulter AU680.	1-800 mg/dl 10-400 mg/dl
13	Blood (Serum)	Triglycerides	Glycerol phosphate oxidase in <b>Alinity Ci</b> GPO-PAP in Beckman Coulter AU680.	Up to 1420 mg/dl 10-1000 mg/dl
14	Blood (Serum)	S. Bilirubin(T)	Diazo reaction in Alinity Ci. DPD in Beckman Coulter AU680.	0.10-25.0 mg/dl 0-30 mg/dl
15	Blood (Serum)	ALT (SGPT)	NADH without P-5-P in <b>Alinity Ci.</b> IFCC (without Pyridoxal Phosphate Activation) in Beckman Coulter AU680.	Upto 942 U/L 3 – 1000 U/L
16	Blood (Serum)	Alkaline Phosphatase	Para nitro Phenyl Phosphate in <b>Alinity Ci</b> IFCC PNPP-AMP Buffer in Beckman Coulter AU680.	Up to 2200 U/L 5-1500 U/L
17	Blood (Serum)	Blood Urea	Urease in <b>Alinity Ci</b> . Urease-GLDH, in Beckman Coulter AU680.	3 - 268 mg/dl 5-300 mg/dl
18	Blood (Serum)	Creatinine	Kinetic Alkaline picrate in <b>Alinity Ci.</b> Modified Jaffe, Kinetic in Beckman Coulter AU680.	0.20 - 37.0 mg/dl 0.06 - 25.0 mg/dl
19	Blood (Serum)	Uric Acid	Uricase method in <b>Alinity Ci.</b> Uricase PAP in Beckman Coulter AU680.	Up to 33.1 mg/dl 1.5-30.0 mg/dl
20	Blood (Plasma)	Sodium (Na)	Ion selective electrode Indirect in <b>Alinity Ci.</b> Ion selective electrode method in Beckman Coulter AU680.	100 - 200 mmol/L Up to 200 mmol/L
21	Blood (Plasma)	Potassium (K)	Ion selective electrode Indirect in <b>Alinity Ci.</b> Ion selective electrode method in Beckman Coulter AU680.	1.0 - 10.0 mmol/L Up to 10 mmol/L
22	Blood (Plasma)	Chloride (Cl)	Ion selective electrode Indirect in <b>Alinity Ci.</b> Ion selective electrode method in Beckman Coulter AU680.	50 - 150.0 mmol/L 50 - 200 mmol/L
23	Blood (Serum)	hs Troponin I	Chemiluminiscent Microparticle Immunoassay in <b>Alinity Ci</b>	1.1 -50,000 pg/ml

  
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24	Blood (Serum)	TSH	Chemiluminiscent Microparticle Immunoassay in <b>Alinity Ci</b> .	0.01 - 120.0 µIU/ml
25	Blood (Serum)	Free T4	Chemiluminiscent Microparticle Immunoassay in <b>Alinity Ci</b>	0.4 - 6.0 ng/dl
26	Blood (Serum)	Total Protein	Biuret	7.6 - 184 g/L
27	Blood (Serum)	Albumin	Bromocresol Green	3.1 - 105 g/L
28	Blood (Serum)	Calcium	Arsenazo	0.5 - 6.0 mmol/L
29	Blood (Serum)	AST	NADH(Without P-5-P)	2.2- 4200 U/L
30	Whole Blood	HbA1c	High Performance Liquid Chromatography	3.8 - 18.5 %

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 Quality Manager