

## Technical information

### 1. Test repertoire.

The following services are offered at the laboratory, all other services not included here are outsourced, please contact the laboratory for further clarification.

Cost of testing can be obtained from the laboratory reception and/or by contacting the laboratory through the listed contacts.

The laboratory most often formulates packages, ask for available packages from the reception.

S No.	Test Name	Sample	Container Type	TAT
<b>Haematology</b>				
1	Full Hemogram	Whole Blood	EDTA (Purple Top)	1 Hour
2	Peripheral Blood Film (PBF)	Whole Blood	EDTA (Purple Top)	2 Hours
3	Blood for Malaria Parasites ( <i>Blood smear &amp; Malaria Antigen</i> )	Whole Blood	EDTA (Purple Top)	2 Hours
4	Erythrocyte Sedimentation Rate (ESR)	Whole Blood	EDTA (Purple Top)	2 Hours
5	Glycated Haemoglobin (HbA1c)	Whole Blood	EDTA (Purple Top)	1 Hour
6	Manual Reticulocyte Count	Whole Blood	EDTA (Purple Top)	2 Hours
7	Blood Grouping	Whole Blood	EDTA (Purple Top)	2 Hours
8	Indirect Coombs Test	Serum & Whole Blood	SST/Plain (Yellow Red Top) & EDTA (Purple Top)	2 Hours
9	Direct Coombs Test	Serum & Whole Blood	SST/Plain (Yellow Red Top) & EDTA (Purple Top)	2 Hours
10	Prothrombin Time (INR)	Citrate Plasma	Blue Top (Filled to the Mark)	1 Hour
11	Activated Partial Thromboplastin Time (APTT)	Citrate Plasma	Blue Top (Filled to the Mark)	1 Hour
12	Sickling Test	Whole Blood	EDTA (Purple Top)	24 Hours
13	Fluid haematological analysis (Fluid routine analysis) - <i>Fluid cell count</i>	body fluid	Sterile Container/EDTA	2 Hours

S No.	Test Name	Sample	Container Type	TAT
<b>Biochemistry</b>				
1	Liver Function Tests (Can be requested individually) ( <ul style="list-style-type: none"> <li>- Alkaline phosphatase</li> <li>- SGOT(AST)</li> <li>- SGPT(ALT)</li> <li>- Gamma GT</li> <li>- Total bilirubin</li> <li>- Direct bilirubin</li> <li>- Indirect bilirubin)</li> </ul>	Serum	SST/Plain (Yellow / Red Top)	2 Hours
2	Liver Function Tests + Proteins (Can be requested individually) ( <ul style="list-style-type: none"> <li>- Alkaline phosphatase</li> <li>- SGOT(AST)</li> <li>- SGPT(ALT)</li> <li>- Gamma GT</li> <li>- Total bilirubin</li> <li>- Direct bilirubin</li> <li>- Indirect bilirubin</li> <li>- Total Protein</li> <li>- Albumin</li> <li>- Globulins</li> <li>- A/G Ratio)</li> </ul>	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
3	Serum Proteins <ul style="list-style-type: none"> <li>- Total Protein,</li> <li>- Albumin,</li> <li>- Globulins)</li> </ul>	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
4	Serum Bilirubin <ul style="list-style-type: none"> <li>- Total Bilirubin,</li> <li>- Direct Bilirubin,</li> <li>- Indirect Bilirubin)</li> </ul>	Serum	SST/Plain (Yellow/ Red Top)	2 Hours

S No.	Test Name	Sample	Container Type	TAT
5	U/E/Cs (Can be requested individually) - Serum Creatinine - Sodium - Potassium - Chloride - Urea - eGFR (CDK-EPI 2021 Update)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
6	Serum Electrolytes (Can be requested individually) - Sodium - Potassium - Chloride)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
7	Calcium	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
8	Corrected Calcium - Serum Albumin - Corrected Calcium)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
9	Phosphorous	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
10	Uric Acid	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
11	Magnesium	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
12	Lipase	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
13	Amylase	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
14	Creatine Kinase (CK/CPK)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
15	Fasting Lipid Profile (Can be requested individually) - Total Cholesterol - Triglycerides - HDL Cholesterol	Serum	SST/Plain (Yellow/ Red Top)	2 Hours

S No.	Test Name	Sample	Container Type	TAT
	<ul style="list-style-type: none"> <li>- LDL Cholesterol</li> <li>- T Cholesterol/HDL Ratio)</li> </ul>			
16	Random Lipid Profile	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
17	Fasting Blood Glucose	Fluoride Plasma	Grey Top	2 Hours
18	Random Blood Glucose	Fluoride Plasma	Grey Top	2 Hours
19	Post Prandial Blood Sugar (PPBS)	Fluoride Plasma	Grey Top	2 Hours
20	Oral Glucose Tolerance Test (OGTT)	Fluoride Plasma (0, 1hr, 2hr)	Grey Top	2 Hours
21	Lactate Dehydrogenase (LDH)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
22	C-Reactive Protein (CRP)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
23	Highly Sensitive CRP (hsCRP)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
24	D-Dimers	Citrate Plasma	Blue Top (Filled to the Mark)	3 Hours
25	Iron	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
26	Transferrin	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
27	Ferritin	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
28	Iron Studies <ul style="list-style-type: none"> <li>- Transferrin,</li> <li>- Ferritin,</li> <li>- UIBC (Unbound Iron Binding Capacity),</li> <li>- TIBC (Total Iron Binding Capacity)</li> <li>- Iron,</li> <li>- Transferrin saturation)</li> </ul>	Serum	SST/Plain (Yellow/ Red Top)	3 Hours

S No.	Test Name	Sample	Container Type	TAT
29	Transferrin Saturation - TIBC (Total Iron Binding Capacity) - Iron, - Transferrin saturation, - Transferrin)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
30	Urine Albumin Creatinine Ratio - Urine Creatinine, - Urine Microalbumin, - A/C Ratio)	Urine	Plain Urine Container	2 Hours
31	Urine Microalbumin	Urine	Plain Urine Container	2 Hours
32	Fluid Biochemical Analysis (Fluid Routine) - Glucose - LDH - Proteins	Body fluid	Sterile container/Plain tube	2 Hours
<b>Serology</b>				
1	Rheumatoid Factors (RF)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
2	VDRL - VDRL, - RPR)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
3	ASOT (Anti streptolysin O titre)	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
<b>Immunology</b>				
1	Thyroid Function Tests (Can be requested individually) - Free T3 (Triiodothyronine, - Free T4 (Thyroxine) - TSH (Thyroid Stimulating Hormone)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
2	Thyroglobulin Antibody (Anti TG)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours

S No.	Test Name	Sample	Container Type	TAT
3	Thyroid Peroxidase Antibody (Anti TPO, Microsomal TPO Ab)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
4	Thyroid Antibodies (Anti TG, Anti TPO)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
5	Total PSA	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
6	Free PSA	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
7	Free PSA/Total PSA Ratio	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
8	Total Testosterone	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
9	Anti-Mullerian Hormone (AMH)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
10	Prolactin	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
11	Follicle Stimulating Hormone (FSH)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
12	Luteinizing Hormone (LH)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
13	Oestradiol (E2)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
14	Parathyroid Hormone (PTH)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
15	HIV 1&2	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
16	Anti – HCV (Hepatitis C Virus Antibodies)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
17	Hepatitis B Surface Antigen (HbSAg)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
18	Troponin T highly sensitive	Serum	SST/Plain (Yellow/ Red Top)	2 Hours
19	Serum Pro – B type natriuretic peptide (Pro – BNP)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours

S No.	Test Name	Sample	Container Type	TAT
20	Human Chorionic Gonadotrophin beta subunit ( $\beta$ -HCG)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
21	CA 15-3	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
22	CA 125	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
23	CA 19-9	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
24	CEA (Carcinoembryonic Antigen)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
25	Alpha Fetoprotein (AFP)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
26	Serum Folate	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
27	Vitamin B12	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
28	25-OH Vitamin D3	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
29	Cortisol (AM) (8 AM (7-9AM))	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
30	Cortisol (PM) (4 PM (3-5 PM))	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
31	Cortisol (Random)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
32	Procalcitonin	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
33	Anti-Cyclic Citrullinated Peptide antibodies (Anti-CCP)	Serum	SST/Plain (Yellow/ Red Top)	3 Hours
<b>Microbiology and Molecular Biology</b>				
1	Urinalysis/Urine routine analysis (Urine Biochemistry and Microscopy) - <i>Bilirubin</i> - <i>Blood</i> - <i>Glucose</i> - <i>Ketones</i>	Urine	Sterile Urine Container	2 Hours

S No.	Test Name	Sample	Container Type	TAT
	<ul style="list-style-type: none"> <li>- <i>Leucocytes</i></li> <li>- <i>Nitrite</i></li> <li>- <i>pH</i></li> <li>- <i>Protein</i></li> <li>- <i>Specific Gravity</i></li> <li>- <i>Urobilinogen</i></li> </ul>			
2	Urine Pregnancy Diagnostic Test (PDT)	Urine	Sterile Urine Container	2 Hours
3	Urine Culture and Sensitivity	Urine (Sterile Midstream, preferably first morning sample)	Sterile Urine Container	24-72 Hours
4	Stool Routine Analysis	Stool	Clean Stool Container	2 Hours
5	Stool Rotavirus/Adenovirus	Stool	Clean stool container	2 Hours
6	Stool Helicobacter pylori (H. pylori)	Stool	Clean stool container	2 Hours
7	Stool Salmonella antigen	Stool	Clean stool container	2 Hours
8	Stool cryptosporidium	Stool	Clean stool container	3 Hours
9	Stool culture and sensitivity	Stool	Clean stool container	48-72 Hours
10	HVS (High Vaginal Swab) Routine	HVS	Swab in Amie's transport media	2 Hours
11	HVS (High Vaginal Swab) Culture	HVS	Swab in Amie's transport media	48-72 Hours
12	ZN Staining	Sputum, Sterile body Fluids	Sterile container	3 Hours
13	Gram staining	Sputum, Sterile body fluids	Sterile container	3 Hours
14	KOH	Skin scrapings, Nail Clippings	Sterile container	3 Hours
15	TB Gene-xpert	Sputum,	Sterile container	3 Hours



S No.	Test Name	Sample	Container Type	TAT
		Body fluids		
S No.	Test Name	Sample	Container Type	TAT
<b>Cytology</b>				
1	Pap Smear Collection and Interpretation	PAP Smear	PAP Smear	7 Working Days
2	Fine Needle Aspiration Cytology (Procedure and Interpretation)	FNA	FNA	7 Working Days
3	Fluid Cytology	Body Fluid	Sterile Container	7 Working Days
4	Histology (Large Specimen)	Tissue Biopsy	10% NBF/Formalin	7 Working Days
5	Histology (Small Specimen)	Tissue Biopsy	10% NBF/Formalin	7 Working Days
6	Special Stains – fungal (PAS, GMS)	Tissue Biopsy	10% NBF/Formalin	7 Working Days
7	Gastric biopsy histology	Gastric Biopsy	10% NBF/Formalin	7 Working Days
8	Colon mucosal biopsy histology	Colon Mucosa Biopsy	10% NBF/Formalin	7 Working Days
9	ZN stain for histology	Tissue Biopsy	10% NBF/Formalin	7 Working Days

## 2. List of outsourced Tests (Call the Laboratory for Prices)

S No.	Test	TAT
1	ACE (angiotensin converting enzyme) serum	7 Working Days
2	Acetylcholine receptors antibodies	7 Working Days

S No.	Test	TAT
3	ACTH	7 Working Days
4	Adenosine deaminase (ADA)	7 Working Days
5	AFB-DNA detection by real time PCR	7 Working Days
6	Allergy panel - food non-vegetarian panel (11 parameters)	7 Working Days
7	Allergy screening (Phadiatop)	7 Working Days
8	ANA screen by IFA	7 Working Days
9	ANA profile	7 Working Days
10	Anticardiolipin antibodies (IgG)	7 Working Days
11	Anticardiolipin antibodies (IgM)	7 Working Days
12	Anti-ds DNA	7 Working Days
13	Anti HBeAg	7 Working Days
14	Anti-mitochondrial antibodies (AMA)	7 Working Days
15	Antiphospholipid antibodies (IgG and IgM)	7 Working Days
16	Anti-phospholipid profile (ACL IgG/M, $\beta$ 2 IgG/M)	7 Working Days
17	Apolipoprotein a	7 Working Days
18	Apolipoprotein a1	7 Working Days
19	Apolipoprotein b	7 Working Days
20	Aspergillosis IgG antibodies, serum	7 Working Days
21	Aspergillosis IgM antibodies, serum	7 Working Days
22	$\beta$ 2 microglobulin	7 Working Days
23	Bence jones proteins-urine	7 Working Days
24	Beta 2 glycoprotein IgG	7 Working Days
25	Beta 2 glycoprotein IgM	7 Working Days
26	Brucella agglutination test	7 Working Days
27	C3 compliment	7 Working Days
28	C4 compliment	7 Working Days
29	C-ANCA (PR3 ANCA)	7 Working Days
30	Carbamazepine levels	7 Working Days

S No.	Test	TAT
31	CD3/CD4/cd8 count	7 Working Days
32	Chlamydia trachomatis DNA detection by PCR, urine	7 Working Days
33	Chromogranin a	7 Working Days
34	CK-MB	7 Working Days
35	Clostridium difficile-stool(A/b)	7 Working Days
36	CMV IgG	7 Working Days
37	CMV IgM	7 Working Days
38	Colon mucosal biopsy histology	7 Working Days
39	Copper reflex ceruloplasmin, serum	7 Working Days
40	COVID 19 RT PCR	7 Working Days
41	C-peptide	7 Working Days
42	Cryptococcus antigen detection, serum	7 Working Days
43	Dehydroepiandrosterone sulphate(DHEAS)	7 Working Days
44	Dengue Antigen (NS1)	7 Working Days
45	Dengue IgG	7 Working Days
46	Dengue IgM	7 Working Days
47	Environmental monitoring	7 Working Days
48	Erythrocyte sedimentation rate (ESR)	7 Working Days
49	Erythropoietin CLIA	7 Working Days
50	Fecal calprotectin	7 Working Days
51	Free light chain assay (Kappa & Lambda)	7 Working Days
52	Free testosterone	7 Working Days
53	Fungal stain culture and identification	7 Working Days
54	GAD65(anti GAD) antibodies by EIA (Type 1 Diabetes)	7 Working Days
55	GAD65 antibodies by IFA (Neuronal Antibody)	7 Working Days
56	Galactomannan	7 Working Days
57	Gamma interferon (tb gold QuantiFERON)	7 Working Days

S No.	Test	TAT
58	Growth hormone (HGH)	7 Working Days
59	Haemoglobin electrophoresis	7 Working Days
60	HAV IgG antibodies	7 Working Days
61	HAV IgM antibodies	7 Working Days
62	HbcAg (total antibody to hepatitis - b core antigen)	7 Working Days
63	HbeAg (hepatitis b envelope antigen)	7 Working Days
64	Hepatitis B viral load (quantitative)	7 Working Days
65	HBV-DNA detection, serum or plasma	7 Working Days
66	HCV viral load -plasma	7 Working Days
67	Hepatitis B surface antibody (anti Hbs)	7 Working Days
68	Hepatitis B virus - core antibody IgM	7 Working Days
69	Herpes simplex type 1 IgM	7 Working Days
70	Herpes simplex type 2 IgM	7 Working Days
71	HEV-IgM, serum	7 Working Days
72	HIV 1 viral load	7 Working Days
73	HLA B27 studies	7 Working Days
74	Homocysteine	7 Working Days
75	HPV DNA detection PCR	7 Working Days
76	Immunoglobulin profile (IgG IgM IgA)	7 Working Days
77	Insulin like growth factor 1(IGF-1)	7 Working Days
78	Intrinsic factor antibodies	7 Working Days
79	Jak II mutation	7 Working Days
80	Lipoprotein (a)	7 Working Days
81	LKM-1(liver-kidney microsomes)	7 Working Days
82	Lupus anticoagulant	7 Working Days
83	Methyl malonic acid	7 Working Days
84	Myoglobin, serum	7 Working Days
85	P-ANCA (MPO-ANCA)	7 Working Days
86	PAP smear	7 Working Days

S No.	Test	TAT
87	Plasma lactate	7 Working Days
88	Plasma metanephrine	7 Working Days
89	Rubella virus IgG	7 Working Days
90	Rubella virus IgM	7 Working Days
91	Schistosoma IgM	7 Working Days
92	Serum aldolase	7 Working Days
93	Serum copper levels	7 Working Days
94	Serum cotinine levels	7 Working Days
95	Serum IgE levels	7 Working Days
96	Serum protein electrophoresis (SPEP)	7 Working Days
97	Sex hormone binding globulin (SHBG)	7 Working Days
98	Smooth muscle antibody (ASMA)	7 Working Days
99	Thyroglobulin	7 Working Days
100	Tissue transglutaminase IgA	7 Working Days
101	Tissue transglutaminase IgG	7 Working Days
102	Total serum immunoglobulin IgA	7 Working Days
103	Toxicology screen (drugs of abuse 9 panel)	7 Working Days
104	Toxoplasma IgG	7 Working Days
105	Toxoplasma IgM	7 Working Days
106	TSH receptor antibody	7 Working Days

### 3. Interfering substances, Analyte stability in sample, and measurement ranges

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
<b>BIOCHEMISTRY</b>					
Urea Kinetic with urease and glutamate dehydrogenase	7 D	7 D	1 Y	Icterus>60i Haemolysis>1000H (dilute sample) Lipemia>1000 Ammonium heparin	0.5-40mmol/l

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
Uric Acid Enzymatic colorimetric	3 D	7 D	6 Mo	I>40 H>1000 L>1500 Calcium dobesilate (low ua) Etamsylate (low UA) Ascorbic acid Uricase and purine derivatives Gammopathy may cause unreliable results Metamizole	11-9-1487umol/l
Total Protein Colorimetric assay(biuret rxn)	6 D	4 W	1 Y	I>60 H>500 L>2000 Dextran>30mg/ml Gammopathy may cause unreliable results	2-120g/l
RF Immuno-turbidimetry	1 D	8 D	3 Mo	I>60 H>1000 L>2000 Gamma globulin	30-130IU/ml
Phosphate (Inorganic) Molybdate UV	24H	4 D	1 Y	I>51 H>420 L>1000 Phospholipids contained in liposomal drugs.	0.1-6.46mmol/l
Lipase Enzymatic colorimetric assay with 6methylsorufin ester as substrate	7D	7D	1y	I>60 H>100 L>2000	3-300U/l
Lactate Dehydrogenase UV-assay	7D	4D	6w	I>60 H>10 L>2000	10-1000U/l
Iron	7D	3w	1y	I>60	5-1000ug/dL

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
Ferozine method				H>200 L>2000 Complexing anticoagulants (EDTA, oxalate, Citrate) Iron supplements and metal binding drugs(drug-bound iron may lead to falsely low results)	
Glucose Enzymatic reference method with hexokinase	8H (s) 3D (f) CSF 5H	72H  3D	1mo	I>60 H>1200 L>1900	0.11-40mmol/l
Calcium NM-BAPTA	7d	3w	8mo	I>60mg/dL H>1000mg/dl Urea>1600mmol/l Omniscan(gadolinium containingMRI contrast media at higher concentrations, Optimark contrast at therapeutic and higher concentrations	0.20-5.0mmol/l
Γ-Glutamyltransferase (GGT) Enzymatic colorimetric assay	7d	7D	1y	I>48 H>550	3-1200U/l
C-reactive Protein Particle enhanced immunoturbidimetric assay	2w	3w	12mo	I>60 H>1000 L>1000 RF>1200IU/ml Tircacillin>225mg/l HAMA	06-350mg/l
Creatinine Kinetic colorimetric assay based on Jaffe method	7D  Urine 2D	7D  6d	3mo  6mo	H>800 HbF>60mg/dl I>5 L>250	18-300umol/l

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
				Pyruvate >0.4mmol/l Ascorbate>4mmol/l Cephalosporins lead to false positive results Cefoxitin leads to artificially high creatinine Cyanokit(hydroxocobalamin) leads to falsely low results Ketone bodies lead to artificially high results	
Creatine Kinase UV-test	2D	7D	4w	I>60 H>100 L>1000 Cyanokit (Hydroxocobalamin)	7-2000
Total Bilirubin Colorimetric diazo method	1D	7D	6mo	H>800 Cyanokit (hydroxocobalamin) Indican>3mg/dl Indocyanine green	2.5-650umol/l
Direct Bilirubin Diazo method	2D	7D	6mo	H>25 L>750 Phenylbutazone Indocyanine green	1.5-291umol/l
Aspartate Aminotransferase IFCC with pyridoxal phosphate	4D	7D	3mo	I>60 H>25 L>150 Citrate and fluoride Calcium dobesilate Doxycycline HCL Cyanokit (hydroxocobalamin) Sulfasalazine Sulfapyridine	2-700u/l
Alanine Aminotransferase	3D	7D	-	I>60 H>130 L>150 Citrate and fluoride	5-700u/l



Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
IFCC optimized for performance and stability				Calcium dobesilate Doxycycline HCL Cyanokit (hydroxocobalamin) Sulfasalazine Sulfapyridine	
Urine Albumin Immunoturbidimetric assay	7d	1mo	6mo	I>60 H>1000 L>1500 RF>1200iu/ml High dose hook effect	16-1642umol/l
Transferrin Immunoturbidimetric assay	8d	8d	6mo	I>60 H>1000 L>1500 RF>1200iu/ml	10-520mg/dl
HDL-Cholesterol Homogenous enzymatic colorimetric test	72H	7D	12mo	I>60 H>1200 L>2000 Ascorbate >2.84mmol/l Abnormal liver function(leads to abnormal lipid distribution due to abnormal lipoproteins) N- Acetylcystein >2.76mmol/l Metamizole	0.08-3.88mmol/l
Sodium	14D	14D		Haemolysis	20-250mmol/l
Potassium	14D	14D		Haemolysis	0.2-30mmol/l
Chloride	7D	7D		Haemolysis, Acetylsalicylic acid, Perchlorate medication	20-250mmol/l
Triglycerides	2D	10D	3mo	I>10 H>700 Endogenous unesterified glycerol Ascorbate Calcium dobesylate Intralipid Dicynone(Etamsylate) N-acetylcysteine Metamizole	0-1-10mmol/l

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
Magnesium Colorimetric endpoint	7D	7D	1y	I>60 H>800 L>2000	0.10-2.0mmol/l
LDL-Cholesterol Homogenous enzymatic colorimetric assay	-	7D	12mo	I>60 H>1000 L>1000 HDLC>3.03mmol/l VLDLC>3.63mmol/l Chylomicrons>22.6mmol/l Triglycerides>22.6mmol/l	0.10-14.2mmol/l
Cholesterol Enzymatic colorimetric method	7D	7D	3mo	I>16 H>810 L>2000 Metamizole	0.1-20.7mmol/l
Amylase Enzymatic colorimetric assay	7D	1mo	-	I>52 H>260 L>2200 Icodextrin based drugs Citrate and fluoride anticoagulants	3-2000U/l
<b>SPECIAL CHEMISTRY</b>					
Troponin T hs Sandwich-ECLIA	-	24h	12mo	Haemolysis >0.1g/dl	3-10000ng/l
Estradiol Competition ECLIA	24h	2D	6mo	High dose Biotin (allow 8 hours after last dose) Fulvestrant Steroid drugs	5-3000pg/ml
CEA Sandwich ECLIA	7D	14D	6mo	High dose Biotin (allow 8 hours after last dose)	0.2-1000ng/ml
LH Sandwich ECLIA	5D	14D	6mo	High dose Biotin (allow 8 hours after last dose)	0.100-200 miu/ml
CA 19-9 Sandwich ECLIA	5D	14D	3mo	High dose Biotin (allow 8 hours after last dose)	0.6-1000u/ml
HCG+β Sandwich ECLIA	-	3D	12mo	High dose Biotin (allow 8 hours after last dose)	

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
Prolactin Sandwich ECLIA	5D	14D	6mo	High dose Biotin (allow 8 hours after last dose)	0.0470-470ng/ml
Progesterone Competition ECLIA	1D	5D	6mo	High dose Biotin (allow 8 hours after last dose). Phenylbutazone	0.05-60ng/ml
Parathyroid Hormone (PTH) Sandwich ECLIA	8H	2D	6mo	Haemolysis>150mg/dl High dose Biotin (allow 8 hours after last dose)	1.2-5000pg/ml
Alpha 1-fetoprotein (AFP) Sandwich ECLIA	5D	14D	6mo	High dose Biotin (allow 8 hours after last dose)	0.5-1000u/ml
Thyroid Stimulating Hormone (TSH) Sandwich ECLIA	8D	14D	24mo		0.05-100uiu/ml
Vitamin B12 Competition ECLIA	2H	48H	56D	High dose Biotin (allow 8 hours after last dose) Hyperproteinemia Immunoglobulin b12 complexes leading to high B12 values. Cross reactivity: Cobinamide dicyanide	50-2000pg/ml
Free Triiodothyronine (fT3) Competition ECLIA	5D	7D	30D		0.3906-32.55 pg/ml
CA 15-3 Sandwich ECLIA	48H	5D	90D	High dose Biotin (allow 8 hours after last dose)	1-300u/ml
Anti-cyclic citrullinated peptides (Anti CCP) IgG-capture ECLIA	3D	8D	12m	High dose Biotin (allow 8 hours after last dose) IgG Hypergammaglobulinemia	7-500u/ml
Free Thyroxine (fT4) Competition ECLIA	5D	7D	30D	Furosemide, Carbamazepine, phenytoin, levothyroxine sodium,  D-T4 – Discontinue therapy for 4-6weeks to allow physiological state to be reestablished	0.039-7.77ng/dl
Testosterone Competition ECLIA	-	1w	6mo	Nandrolone, Steroid drugs, Testosterone drugs	0.025-15.0

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
Cortisol Competition ECLIA	24H	4D	12mo	High dose Biotin (allow 8 hours after last dose) RF above 600 Pregnancy, Contraceptives and estrogen therapy. Methylprednisolone and prednisolone 21hydroxylase deficiency	1.5-1750nmol/l
CA 125 Sandwich ECLIA	8H	5D	24w	High dose Biotin (allow 8 hours after last dose)	0.6-5000u/ml
Hepatitis B Surface Antigen Sandwich ECLIA	7D	14D	6mo		Negative Positive
Human Immunodeficiency Virus (HIV) Sandwich ECLIA	7D	4w	3mo		Antigen detection<2IU/ml
Folate Competition ECLIA	2H	48H	28D	Haemolysis High dose Biotin (allow 8 hours after last dose), Methotrexate, Leucovorin(Folate binders) Hyperproteinemia	0.9-20ng/ml
Prostate Specific Antigen (total)PSA Sandwich ECLIA	24H	5D	24w	Presence of PSA isoforms	0.06-100ng/ml
Ferritin Sandwich ECLIA	24H	7D	12mo	High dose Biotin (allow 8 hours after last dose)	0.5-2000ug/l
Vitamin D total Competition ECLIA	8H	4D	24w	Haemolysis High dose Biotin (allow 8 hours after last dose)	3-70ng/ml
<b>HEMATOLOGY</b>					
White Blood Cells	72H			Leucocyte aggregation Platelet aggregation Poor haemolysis Erythroblasts	0.03-440×10 <sup>3</sup> /μL

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
				Cold agglutinins Chyloemia Cryoproteins Fibrin Giant Platelets	
Red Blood Cells	72H			Cold agglutinin Microerythrocytes Fragmented red blood cells	0.01-8.60×10 <sup>3</sup> /μL
Haemoglobin	72H			Leucocytosis (>100,000/ul) Lipemia Abnormal protein	0.1-26g/dL
Hematocrit	8H	24H		Cold agglutinin Microerythrocytes Fragmented red blood cells Leucocytosis (>100,000/ul) Severe diabetes Uremia Spherocytes	0.1-75%
MCV	8H	24H			fL
MCH					Pg
MCHC					g/dl
Platelets	48H			Platelet aggregation Pseudothrombocytopenia Giant platelets Fragmented red blood cells Fragmented leucocytes Cryoprotein Cryoglobulin	2-500×10 <sup>3</sup> /μL
RDW SD					fL
RDW CV					%
PDW					fL
MPV					fL
P-LCR					%
PCT					%
Neutrophils#	48H			See White Blood Cells	0.03-440×10 <sup>3</sup> /μL
Lymphocytes#	48H			See White Blood Cells	0.03-440×10 <sup>3</sup> /μL

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
Monocytes#	48H			See White Blood Cells	0.03-440×10 <sup>3</sup> /μL
Eosinophils#	48H			See White Blood Cells	0.03-440×10 <sup>3</sup> /μL
Basophils#	12H	24H		See White Blood Cells	0.03-440×10 <sup>3</sup> /μL
Neutrophils%	48H			See White Blood Cells	0.00-100%
Lymphocytes%	48H			See White Blood Cells	0.00-100%
Monocytes%	48H			See White Blood Cells	0.00-100%
Eosinophils%	48H			See White Blood Cells	0.00-100%
Basophils%	12H	24H		See White Blood Cells	0.00-100%
<b>MICROBIOLOGY</b>					
Urinalysis (Automated and Manual – Reflectance Photometry)	2H				
Specific Gravity	2H				
pH	2H				
Leucocytes	2H				
Nitrites	2H			<b>Ascorbic acid &gt;1000 mg/L</b> false negative results <b>Phenazopyridine &gt;120 mg/L</b> false positive results	
Proteins	2H			<b>Gabapentin &gt;4800 mg/L</b> false positive results <b>Salicylic acid &gt; 5000 mg/L</b> false negative results	
Glucose	2H			<b>Ascorbic acid &gt;400 mg/L</b> false normal results	
Ketones	2H			<b>N -Acetylcysteine &gt;40 mg/L</b> false positive results and elevated positive results <b>Levodopa &gt;50 mg/L</b> false positive results and elevated positive results <b>Methyldopa 50 mg/L</b> false positive results and elevated positive results	
Urobilinogen	2H			<b>Gabapentin &gt;4800 mg/L</b> false normal results	

Analyte	Analyte Stability in Sample			Interferents (Haemolysis(H), Icterus(I) and Lipemia (L) are given as index)	Measurement Range
	15-25	2-8	-20		
				Phenazopyridine >60 mg/L elevated positive results Salicylic acid >3000 mg/L false normal results	
Bilirubin	2H			Amoxicillin >8000 mg/L false negative results Ascorbic acid >600 mg/L false negative results Furosemide >800 mg/L false negative results Levodopa >250 mg/L false positive results and elevated positive results	
Erythrocytes	2H			Amoxicillin >5333 mg/L false negative results Ascorbic acid >750 mg/L false negative results Furosemide >1000 mg/L false negative results Gabapentin >4000 mg/L false negative results Ibuprofen >500 mg/L false negative results Levodopa >325 mg/L false positive results and elevated positive results Methyldopa >500 mg/L false positive results and elevated positive results	
Colour	2H				

## References

1. ISO 15189-2022 Medical laboratories - requirements for quality and competence.
2. Laboratory Quality Manual
3. Kit inserts.