



Valid from 05 August 2024
to 04 August 2028
Issued on 05 September 2024

As an accredited laboratory, this laboratory is entitled to
use the following accreditation symbol.



ISO 15189
ML 049-01

Schedule of Accreditation

Accreditation Scheme for Medical/Clinical Laboratories
Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: ML 049-01

Hemas Hospitals Laboratory Services-Wattala
No. 389, Negombo Road
Hendala, Wattala

Scope of Accreditation: Performing Medical/Clinical testing under the fields of Clinical Biochemistry/ Chemical Pathology, Clinical Pathology, Haematology and Microbiology.

The laboratory is accredited for the following tests.

Sl	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
1	Haematology	ESR	Westergren method	Manual method (Set with Westergren tube)	
		FBC Whole blood			
		Haemoglobin	Colorimetric Determination	Celldyn Ruby Analyser	0.0-19.9g/dl
		PCV	Computed from RBC & MCV		13.0-60.0%
		RBC count	Flow Cytometry		0.00-7.16 x10 ⁶ /μl
		Platelet			11 -1903 x10 ³ /gl

SI	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
1	Haematology	MCV	The Mean Cell Volume is the average volume of the individual red blood cells. The MCV is derived from the RBC size distribution data on the 0 ^o , 100, and 90 ^o histograms, and is expressed in femtoliters	Celldyn Ruby Analyser	50 - 139 fL
		MCH	Computed from Hb and RBC		-
		MCHC	Computed from Hb and PCV		-
		RDW	Computed from RBC histogram		8.0-29.8 %
		WBC count	Flow Cytometry		0.02 - 246 x10 ³ /μl
		WBC/ DC count	MAPSS (Multi Angle polarized scatter separation) Manual Method (Microscopy of stained smear)	Celldyn Ruby Analyser Microscope- Olympus Model: CX31RBSFA	-
		Haemoglobin	Colorimetric Determination	Celldyn 3200 Analyser	0.0-25 g/dl
		PCV	Computed from RBC & MCV		13.0-60.0%
		RBC count	Flow Cytometry		0.00-8.00 x10 ⁶ /μl
		Platelet			11 -1750 x10 ³ /μl

Sl	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
1	Haematology	MCV	The Mean Cell Volume is the average volume of the individual red blood cells. The MCV is derived from the RBC size distribution data on the 0°, 100°, and 90° histograms, and is expressed in femtoliters	Celldyn 3200 Analyser	34-172 fL
		MCH	Computed from Hb and RBC		-
		MCHC	Computed from Hb and PCV		-
		RDW	Computed from RBC histogram		8.0-29.8%
		WBC count	Flow Cytometry		0.0 - 250 x10 ³ /μl
		WBC/ DC count	MAPSS (Multi Angle polarized scatter separation) Manual Method (Microscopy of stained smear)		
2	Clinical Biochemistry/ Chemical Pathology	Alanine Aminotransferase (ALT) (serum)	(Simens /Dade standard non IFCC correlated UV with P5P) IFCC with pyridoxal-5-phosphate	Dimension EXL 200 Dimension EXL 200	5-1000 U/L
		Albumin (serum)	Bromocresol Purple (Albumin BCP complex) BCP		0.6-8.0 g/dL
		Alkaline Phosphatase (serum)	p-NPP+ANP (AMP optimized to IFCC) p-NPP+ AMP		10-1000 U/L
		Aspartate Aminotransferase (AST) (serum)	IFCC with pyridoxal-5phosphate (P5P) (Simen/Dade standard IFCC) IFCC with pyridoxal-5-phosphate		0- 1000 U/L
		Total Bilirubin (serum)	Diazo with Sulphanilic Acid Diazo		0.1-25mg/dL
		Blood Urea Nitrogen (BUN) (serum)	Urease, end point Urea Nitrogen Method		0 -150 mg/dL

Sl	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
2	Clinical Biochemistry/ Chemical Pathology	C Reactive Protein (CRP) (serum)	particle enhanced turbidimetric immunoassay (PETIA)		0.5 -250 mg/L
		Calcium (serum)	Calcium o cresolphthalein complexone (OCPC)		5.0-15 mg/dL
		Chloride (serum)	ISE		50-200 mmol/L
		Cholesterol – HDL (serum)	Cholesterol esters convert to quinonimine after the several enzymatic reactions.		3-150 mg/dL
		Total Cholesterol (serum)	Oxidation and Peroxidation reaction		50-600 mg/dL
		Creatinine (serum)	modification of the kinetic Jaffe reaction		0.15-20 mg/dL
		Gamma Glutamyl Transferase (GGT) (serum)	Gamma glut'3-carb'4-nitro-IFCC IFCC		0-800 U/L
		Glucose Plasma (Fasting, Postprandial, Random, Glucose Challenge, Glucose Tolerance 75 g, Glucose Tolerance 100 g, Glucose Tolerance Extended & Blood Glucose Series)	Glucose oxidation - Peroxidation	BA 400	0-500 mg/dL
		Glycosylated Hemoglobin (HbA1c) whole blood	Ion-exchange high performance liquid chromatography (HPLC)	BIO Rad D-10	3.9-18.8%
		Potassium (serum)	ISE	Dimension EXL 200	1-10 mmol/L
		Uric Acid (serum)	Uricase Method – Uricase Perox. With absorb. Ox Uricase Method		0-20 mg/dL
		Phosphorus (serum)	Phosphomolibdate method		0.5-9.0 mg/dL
		Total Protein (serum)	Modified Biuret		2-12 g/dL
		Sodium (serum)	ISE		50-200 mmol/L
		Triglycerides (serum)	Lipase/Glycerol Dehydrogenase enzymatic procedure		15-1000 mg/dL

S1	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
2	Clinical Biochemistry/ Chemical Pathology	Lipid profile (Total Cholesterol, HDL, LDL, Triglyceride, Cho/HDL Ratio)	-	Dimension EXL 200	
		Renal Profile (Sodium, Potassium, Chloride, Urea, Cratinine, Calcium, Phosphorus, Uric acid)	-		
		Electrolytes Profile (Sodium, Potassium, Chloride)	-		
		Troponin I (serum)	CMIA	ARCHITECT 1000i	0.003-25.00 ng/mL
		Beta HCG (Quantitative) (serum)			<1.20-15,000 mIU/mL
		TSH (serum)			<0.005 -100.0000 mIU/mL
		Free Tetraiodothyronine FT4 (serum)			<0.3 – 7.77 ng/dL
		Free Triiodothyronine FT3 (serum)			<0.31- 38.80 pg/mL
		FSH (serum)			<0.100 -200.00 mIU/mL
		LH serum			<0.100 -200.00 mIU/mL
		Prolactin serum			<0.047 - 470 ng/mL
		Total PSA (serum)			0.008 -100 ng/mL
		CA 125 serum			1.0 -1000 U/mL
		Urine - Pregnancy Test	Rapid chromatographic immunoassay	hCG pregnancy strip	Negative / Positive

Sl	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
3	Clinical Pathology	Stool Full Report Colour Consistency Pus cells RBC Epithelial Cells Macrophages Amoebae Ova Round Worm Hook Worm Whip worm Pin worm Cysts Giardia lamblia Charcot Leyden Fatty Acids Mucus Undigested Food Particles	Manual & Microscopic Examination	Microscope	-
		Urine full report Colour	Urine Reagent Strip Manual & Microscopic Examination Urine Reagent Strip	Centrifuge & Microscope	Pale Yellow, Straw Yellow, Yellow, Dark Yellow, Brownish Yellow, Dark Brown, Slightly Blood Stained, Colourless
		Appearance			Clear, Slightly Turbid, Turbid
		Specific gravity			1.000 – 1.030
		pH			5 - 7
		Protein			1-14mg/dL
		Glucose			100mg/dL
		Ketone			5-10mg/dL
		Bilirubin			0.4-0.8mg/dL
		Urobilinogen			0.2-1.0EU/dL
		Microscopy Pus Cells Red Cells Epithelial Cells Casts Crystals Organisms			Per field

SI	Field of Testing	Test	Test Method	Test Instrument	Reference range (Linearity range)
4	Microbiology	Stool Culture	Culture & Preliminary Identification	Validated manual method	Positive/Negative
		Throat Swab Culture			Positive/Negative
		Urine Culture			Positive/Negative
		ABST Stokes Method	Joan Stokes Method		Sensitive/Moderately Sensitive/Resistant
		Sputum For AFB	Ziehl Nielsen Stain		AFB seen(with grading)or AFB not seen
		Smear For Gram Stain	Gram Stain		Positive/Negative

Approved List of Sample Collection Centers

No	Sample Collection Facility	Address	Matrix of the sample
1	Hemas Hospital Laboratory Sample Collection Centre	No. 389, Negombo Road, Wattala	Plain, EDTA, Urine, Stool
2	Heamas Hospital Collecting Centre Ja Ela	No. 08, Old, Negombo Road Ja Ela	Plain, EDTA, Urine, Stool

Chairman

Sri Lanka Accreditation Board for Conformity Assessment
Colombo, Sri Lanka