



Laboratory: National Public Health Laboratory, Teku

Discipline: Clinical Chemistry, Immunology, Serology, Molecular Testing & Hematology

Issue Date: 11/05/2020

Certificate no. MLS 004

Expiry Date: 10/05/2023

### Annexure: Scope

The clinical laboratories under the scope of AERSSC accreditation (ISO 15189:2012) are:

SE	Medical Field	Biological Sample Type	Components / Analytes	Examination Methodology
1	Clinical Chemistry	Serum	Glucose (mg/dl)	Hexokinase
2	Clinical Chemistry	Serum	Urea (mg/dl)	Urease
3	Clinical Chemistry	Serum	Creatinine (mg/dl)	Jaffe kinetic
4	Clinical Chemistry	Serum	Uric Acid (mg/dl)	Uricase colorimetric
5	Clinical Chemistry	Serum	Ca (mg/dl)	Arsenazo
6	Clinical Chemistry	Serum	Phosphorus (mg/dl)	Phosphomolybdate colorimetric endpoint
7	Clinical Chemistry	Serum	T. Bilirubin (mg/dl)	JendrassikDiazo
8	Clinical Chemistry	Serum	D. Bilirubin (mg/dl)	JendrassikDiazo
9	Clinical Chemistry	Serum	ALP (U/L)	PNP kinetic
10	Clinical Chemistry	Serum	GOT/AST(U/L)	IFCC – with P5P
11	Clinical Chemistry	Serum	GPT/ALT (U/L)	IFCC – with P5P
12	Clinical Chemistry	Serum	GGT (U/L)	IFCC
13	Clinical Chemistry	Serum	LDH (U/L)	KINETIC – NADH
14	Clinical Chemistry	Serum	T. Protein (g/dl)	Biuret Method
15	Clinical Chemistry	Serum	Albumin (g/dl)	Bromocresol Green
16	Clinical Chemistry	Serum	T. Cholesterol (mg/dl)	Enzymatic CHOD-PAP
17	Clinical Chemistry	Serum	HDL (mg/dl)	Enzymatic direct
18	Clinical Chemistry	Serum	LDL (mg/dl)	Calculated

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19	Clinical Chemistry	Serum	Triglyceride (mg/dl)	Enzymatic – Lipase
20	Clinical Chemistry	Serum	CK (U/L)	IFCC
21	Clinical Chemistry	Serum	Amylase (U/L)	CNP Triose/ CNPG3
22	Clinical Chemistry	Serum	Iron (µg/dl)	TPTZ without precipitation
23	Clinical Chemistry	Serum	UIBC(µg/dl)	Nitroso- PSAP
24	Clinical Chemistry	Serum	Na+ (mEq/L)	Direct ISE
25	Clinical Chemistry	Serum	K+(mEq/L)	Direct ISE
26	Clinical Chemistry	Whole blood	HbA1c	HPLC
27	Clinical Chemistry	Urine/CSF	Protein (mg/dl)	Pyrogallol red
28	Clinical Chemistry	Urine	Creatinine(mg/dl)	Jaffe Kinetic
29	Immunology	Serum	Free tri-iodothyronine(FT <sub>3</sub> ) (pmol/l)	ECLIA
30	Immunology	Serum	Free thyroxine (FT <sub>4</sub> ) (pmol/l)	ECLIA
31	Immunology	Serum	Thyroid stimulating hormone (TSH) (µIU/ml)	ECLIA
32	Immunology	Serum	Anti-thyroid peroxidase (A-TPO) (IU/ml)	ECLIA
33	Immunology	Serum	Thyroglobulin (TG) (ng/ml)	ECLIA
34	Immunology	Serum	Vitamin D-total (ng/ml)	ECLIA



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35	Immunology	Serum	Vitamin B <sub>12</sub> (pg/ml)	ECLIA
36	Immunology	Serum	Folate (ng/ml)	ECLIA
37	Immunology	Serum	Ferritin (ng/ml)	ECLIA
38	Immunology	Serum	Human growth hormone (hGH) (ng/ml)	ECLIA
39	Immunology	Serum	Cortisol (nmol/L)	ECLIA
40	Immunology	Serum	Estradiol (E <sub>2</sub> ) (pg/ml)	ECLIA
41	Immunology	Serum	Testosterone (ng/ml)	ECLIA
42	Immunology	Serum	Luteinizing hormone (LH) (IU/ml)	ECLIA
43	Immunology	Serum	Follicle-stimulating hormone (FSH) (IU/ml)	ECLIA
44	Immunology	Serum	Prolactin (ng/ml)	ECLIA
45	Serology	Serum	Anti HCV quick test (antibody test)	Immunochromatography
46	Serology	Serum	HBsAg quick	Immunochromatography
47	Serology	Serum	HIV spot quick -Antibody Test a. Alere Determine HIV 1 and 2 b. Unigold HIV 1 and 2 c. Statpack HIV 1 and 2	Immunochromatography
48	Molecular Testing	Dried blood spot, EDTA/Whole Blood	HIV-I qualitative test	HIV-1 Total nucleic acid detection, Real time PCR

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49	Molecular Testing	EDTA - Plasma	HIV-1 Viral load –(copies/ml)	HIV-1 RNA Detection, Real time PCR
50	Hematology	Whole Blood	WBC	Flow cytometry/ Impedance
51	Hematology	Whole Blood	RBC	DC sheath flow detection/ Impedance
52	Hematology	Whole Blood	HGB	Cyanide free- SLS method/ Photometry
53	Hematology	Whole Blood	HCT	Cumulative pulse height detection/ Numeric integration
54	Hematology	Whole Blood	PLT	DC sheath flow detection/ Impedance
55	Hematology	Whole Blood	MCV	Calculation
56	Hematology	Whole Blood	MCH	Calculation
57	Hematology	Whole Blood	MCHC	Calculation
58	Hematology	Whole Blood	RDW-CV%	Calculation
59	Hematology	Whole Blood	Neutrophil	Flow cytometry with Cytochemical reaction/ DHSS (Double hydrodynamic sequential system)Cytometry and Cytochemical association)
60	Hematology	Whole Blood	Lymphocyte	low cytometry with Cytochemical reaction/ DHSSCytometry and Cytochemical association
61	Hematology	Whole Blood	Eosinophil	low cytometry with Cytochemical reaction/ DHSSCytometry and Cytochemical association
62	Hematology	Whole Blood	Monocyte	low cytometry with Cytochemical reaction/ DHSSCytometry and Cytochemical association
63	Hematology	Whole Blood	Basophil	Flow cytometry with Cytochemical reaction/ Impedance
64	Hematology	Whole Blood	HbA1 HbA2 HbF HbS	Capillary electrophoresis

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