


KMLTTB/LABS/01



**KENYA MEDICAL LABORATORY TECHNICIANS AND TECHNOLOGISTS BOARD
KMEDICAL LABORATORY CLASSIFICATION SCHEDULE**

Pursuant to the Medical Laboratory Technicians and Technologists Board Act (CAP 253A Laws of Kenya)

 <p>KENYA MEDICAL LABORATORY TECHNICIANS AND TECHNOLOGISTS BOARD <i>Make Testing a Safe Reality</i></p>	KMEDICAL LABORATORY CLASSIFICATION SCHEDULE		DOCUMENT CONTROL Serial: KMLTTB/LAB/01 Version No. 001 Date: 19 th April 2024
	OWNER OF THE FORM	REGISTRAR	

S/No	Laboratory Class	Level of Health Facility	Tests	Techniques	Staffing Level	Basic Requirements
1	CLASS B	LEVEL II (Dispensary/medical Clinic)	Sample Collection Strip Based Tests VDRL HIV Testing Blood Glucose Rapid Malaria H. Pylori stool antigen Salmonella stool antigen Hemoglobin Estimation Pregnancy Testing Strip Urinalysis Any other test as may prescribed by the KMLTTB Hemoglobin Estimation Blood Grouping: ABO and Rh grouping Bacteriology: Gram Stain Urine Microscopy Urine Chemistry Parasitology: Stool Microscopy Stool occult blood Blood Slide For Malaria And Other Blood Parasites Serology: Hepatitis B Hepatitis C Rheumatoid Factor any other test as prescribed by the KMLTTB	Rapid tests Immunochromatography Microscopy Centrifugation Rocking and shaking	a minimum of 2 medical ab technicians /Technologist, - Support staff (1) Data Clerk (1)	Working Bench. Fridge Binocular Microscope Centrifuge LIMS Store And any other as may be prescribed by KMLTTB from time to time.

2	CLASS C	LEVEL III (HEALTH CENTRE CLINICS/Medical Centre)	<p>In addition to Class B: Total Blood Count Differential White Blood Cell Count Peripheral Blood Film Bleeding Time Sickle Test Screening Blood Transfusion Crossmatch Coombs Test Blood Banking, Bacteriological testing, gram stain Ziehl Neelsen Stain Mycological tests (KOH among others) HVS, Pus Stool and Urine Culture Clinical Chemistry Parasitology Stool Antigen- Salmonella Spp Stool Antigen- HIV Testing (Long Elisa) Hepatitis C, HBV CD4 Counts CD8 Counts CD45 Counts Full hemogram Coagulation profile HB Electrophoresis and any other test that may be prescribed by the Board</p>	<p>Additional Techniques to CLASS B include; Chemiluminescence Spectrophotometry Culture and sensitivity Electric impedance Digital microscopy with Artificial Intelligence (AI) Immunoagglutination Neutralization tests Flow cytometry Hemagglutination</p>	<p>A minimum of four Medical lab technicians /Technologist, - Support staff (2) Data Clerk (2)</p>	<p>Working Bench. Fridge Binocular Microscope Centrifuge LIMS Store</p> <p>And any other as may be prescribed by KMLTTB from time to time</p>
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3	CLASS D	Level IV (District Hospital/ Nursing Homes) Class	In addition to Class C, Add Hematology Prothrombin Time Reticulocyte Count Platelet Count Blood Transfusion Bacteriology Indian Ink Culture And Sensitivity- Blood, CSF Semen Analysis Clinical Chemistry Stool Occult Blood Liver Function Tests Alkaline Phosphatase Aspartate Aminotransferase (ASAT) Alanine Aminotransferase (ALAT) Total And Direct Bilirubin Total Protein- Albumin And Globulin Renal Function Tests Blood Urea Blood Electrolytes (Na+, K+, Cl-) Creatinine Clearance Test Blood Uric Acid Blood Calcium Total Cholesterol Parasitology Skin Snip For mycology and Leprosy Immunology/Virology ASOT	In additional Techniques to CLASS C to include; Simple molecular tests Immunoassays ELISAs Flocculation tests Complement-fixation tests Amperometry Immuno turbidometry / turbidometry Chemiluminescence	A minimum of 6 Medical lab technicians /Technologist, - Support staff (3) Data Clerk (2)	Working Bench. Fridge Binocular Microscope Centrifuge LIMS Store And any other as may be prescribed by KMLTTB from time to time
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			<p>Cd4/Cd8 PSA Serum HCG Histopathology/ Cytopathology Cervical Smears (Pap Smears)As Cytological Examination Of Fluids, Aspirates, Tissues, Bone Marrow Frozen Sections Biopsies Autopsies *Laboratories That Have Focused On Special Disciplines such as Histology, Microbiology, Molecular Full hemogram Clinical chemistry Coagulation profile HB Electrophoresis Lipid profile and any other test that may be prescribed by the Board</p>			
4	CLASS E	Level V (County Hospital/Primary)	<p>In addition to Class D, Add Hematology Hb Electrophoresis Blood Transfusion Bacteriology Culture And Sensitivity- Blood, Stool, Urine, CSF, Aspirates/Fluid, Tb,</p>	<p>In addition to class E, add Specialized Tests Oncology, Immunological Histochemistry, Molecular (sequencing and genotyping) Tumor Maker Torch Profile- Toxoplasma, Rubella, Cytomegalovirus, Herpes</p>	<p>Minimum of 12 Medical lab technicians /Technologist, - Support staff (6) Data Clerk (4)</p>	<p>Working Bench. Fridge Binocular Microscope Centrifuge LIMS Store</p>

			<p>Fungal ETC Tb Molecular Diagnosis Clinical Chemistry Alcohol Determination Cardiac Function Test Creatine Phosphokinase Lactic Dehydrogenase CEA Parasitology Kato Technique Harada Mori Technique Immunology/Virology Resistance Studies Allegrgy Tests Cloning Tumor Marker Torch Profile- Toxoplasma, Rubella, Cytomegalovirus, Herpes Histopathology/ Cytopathology and research to generate evidence and any other test that may be prescribed by the Board</p>	Histopathology/ Cytopathology		<p>And any other as may be prescribed by KMLTTB from time to time</p>
5	CLASS F	Level VI (Referral ,Teaching and Research Hospitals)	<p>In addition to Class E, These laboratory perform specialized diagnosis for diseases such as. SARS, Yellow Fever, Polio Molecular techniques- real time PCR, Genotyping, sequencing They are also used for disease surveillance and</p>	<p>In addition to Class E, include National recognition in EQA Provision and confirmatory tests</p>	<p>A minimum of 18 Medical lab technicians /Technologist, - Support staff (6) Data Clerk (6)</p>	<p>Working Bench. Fridge Binocular Microscope Centrifuge LIMS Store And any other</p>

			monitoring of disease trends emerging and reemerging and research and any other test that may be prescribed by the Board			as may be prescribed by KMLTTB from time to time
6	CLASS G	International and National Referral and Clinical Research Laboratory	In addition to Class F, include Biosafety Level facilities to deal with hemorrhagic fever viruses and other infectious agents of national and international public health concerns	International Recognition In EQA Provision and confirmatory tests	A minimum of 25 Medical lab technicians /Technologist, - Support staff (6) Data Clerk (6)	Working Bench. Fridge Binocular Microscope Centrifuge LIMS Store And any other as may be prescribed by KMLTTB from time to time

LIMS-Laboratory Information Management System

EQA-External Quality Assessment