

KMLTTB/LABS/01



KENYA MEDICAL LABORATORY TECHNICIANS AND TECHNOLOGISTS BOARD

MEDICAL 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>	MEDICAL LABORATORY CLASSIFICATION SCHEDULE		DOCUMENT CONTROL Serial: KMLTTB/LAB/01 Version No. 001 Date: 19 th April 2024
	OWNER THE FORM	REGISTRAR	

S/N	Laboratory Class	Level of Health Facility	Tests	Techniques	Staffing Level	Basic Requirements
1	CLASS B	LEVEL II (Dispensary/medical Clinic)	<ul style="list-style-type: none"> • Specimen Collection Center • Strip Based Tests e.g <ul style="list-style-type: none"> ○ Syphilis Rapid test ○ HIV Rapid Testing ○ Blood Glucose ○ Rapid Malaria ○ H. Pylori stool antigen ○ Salmonella stool antigen ○ Stool Occult Blood ○ Hemoglobin Estimation ○ Pregnancy Testing Strip ○ Urinalysis to be deleted, coz its repeated ○ Hemoglobin Estimation • Blood Grouping: <ul style="list-style-type: none"> ○ ABO and Rhesus (Rh) grouping • Bacteriology: <ul style="list-style-type: none"> ○ Gram Stain ○ Urine Microscopy 	Rapid tests,Q Immunochromatography Microscopy Centrifugation Rocking and shaking Precipitation & Agglutination Glucose oxidation/Calorimetry/Glucometry	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.

			<ul style="list-style-type: none"> ○ Urine Chemistry ● Parasitology: <ul style="list-style-type: none"> ○ Stool Microscopy ○ Stool occult blood ○ Stool for Kato Haramadori ○ Blood Slide For Malaria And Other Blood Parasites ● Serology: <ul style="list-style-type: none"> ○ Hepatitis B Rapid Diagnostic Test ○ Hepatitis C Rapid Diagnostic Test ○ Prostatic Specific Antigen (PSA) Rapid Diagnostic Test ○ Rheumatoid Factor ● Peripheral Blood Film Reporting ● Erythrocyte Sedimentation Rate (ESR) ● Differential White Blood Cell Count ● Semen Analysis ● any other test as 			
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			prescribed by the KMLTTB			
2	CLASS C	LEVEL III (HEALTH CENTRE CLINICS/Medical Centre)	<p>In addition to the test menu of Class B above:</p> <ul style="list-style-type: none"> • Total Blood Count • Bleeding Time • Sickle Test Screening • Blood Transfusion: <ul style="list-style-type: none"> ○ Donor Identification & recruitment ○ Blood donation ○ Blood Banking, ○ Transfusion Transmissible Infections Screening (TTIs) ○ Blood Screening ○ Crossmatch ○ Coombs Tests • Bacteriological testing, <ul style="list-style-type: none"> ○ Gram stain ○ Ziehl Neelsen Stain ○ Culture & Sensitivity - Stool,Urine HVS , Pus etc • Mycological tests <ul style="list-style-type: none"> ○ KOH ○ Indian Ink test ○ CrAg Tests • HIV Testing (Long Elisa) 	<p>Additional Techniques to CLASS B include;</p> <p>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. Separate Fridges for reagents,specimens, and blood for transfusion and blood components, freezer Binocular Microscope Centrifuge Biosafety Cabinet II LIMS Store</p> <p>And any other as may be prescribed by KMLTTB from time to time</p>

			<ul style="list-style-type: none"> • Hepatitis C (long eliza) • Hepatitis B (long eliza) • CD4/CD8 Counts • CD45 Counts • Coagulation profile • HB Electrophoresis • any other test that may be prescribed by the Board 			
3	CLASS D	Level IV (District Hospital/ Nursing Homes) Class	<p>In addition to the test menu in Class C above,</p> <ul style="list-style-type: none"> • Clinical Chemistry <ul style="list-style-type: none"> ○ Liver Function Tests <ul style="list-style-type: none"> ▪ Alkaline Phosphatase ▪ Aspartate Aminotransferase (ASAT) ▪ Alanine Aminotransferase 	<p>In additional Techniques to CLASS C to include;</p> <p>Flocculation tests Complement-fixation tests Amperometry Immuno turbidometry / turbidometry Chemiluminescence</p>	<p>A minimum of 6 Medical lab technicians /Technologist, -Support staff (3) 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>

			<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> e (ALAT) ▪ Total And Direct Bilirubin ▪ Total Protein-Albumin And Globulin • Renal Function Tests <ul style="list-style-type: none"> ○ Blood Urea ○ Blood Electrolytes (Na+, K+, Cl-) ○ Creatinine • Blood Uric Acid • Total Cholesterol • Bone Chemistry <ul style="list-style-type: none"> ○ Magnesium ○ Phosphorus ○ Calcium • Histopathology/ Cytopathology <ul style="list-style-type: none"> ○ Cervical Smears (Pap Smears)As ○ Cytological Examination Of Fluids, Aspirates, Tissues, Bone 			
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			<ul style="list-style-type: none"> ○ Marrow ○ Frozen Sections ○ Biopsies ○ Autopsies ● any other test that may be prescribed by the Board 			
4	CLASS E	Level V (County Hospital/Primary)	<p>In addition to the tests menu in Class D above,</p> <ul style="list-style-type: none"> ● Lipid Profile (Complete Profile) ● Alcohol Determination ● Cardiac Function Test ● Creatine Phosphokinase ● Lactic Dehydrogenase ● Tumour Markers <ul style="list-style-type: none"> ○ CEA ○ CA19-9 ○ CA 125 ○ AFP ○ PSA Total ● Immunology/Virology <ul style="list-style-type: none"> ○ Thyroid Function Tests ○ Thyroid Antibodies Test ● Resistance Studies ● Allergy Tests <ul style="list-style-type: none"> ○ IGE ○ IgG ○ IgM ○ IgA 	<p>In addition to class E, add Specialized Tests Oncology, Immunoassay techniques, Immunological Histochemistry, Tumor Marker Torch Profile- Toxoplasma, Rubella, Cytomegalovirus, Herpes Histopathology/ Cytopathology</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>And any other as may be prescribed by KMLTTB from time to time</p>

			<ul style="list-style-type: none"> • Cloning tests • Torch Profile <ul style="list-style-type: none"> ○ Toxoplasma, ○ Rubella, ○ Cytomegalovirus, ○ Herpes <p>any other test that may be prescribed by the Board</p>			
5	CLASS F	Level VI (Referral ,Teaching and Research Hospitals)	<p>In addition to tests menu in Class E above,</p> <ul style="list-style-type: none"> • SARS, Yellow Fever, Polio • Molecular techniques <ul style="list-style-type: none"> ○ real time PCR, ○ Genotyping, ○ sequencing <p>They are also used for disease surveillance and monitoring of disease trends emerging and reemerging and research any other test that may be prescribed by the Board</p>	In addition to Class E, include National recognition in EQA Provision and confirmatory tests, Molecular Techniques, PCR, HLA Typing, LPA, Gene Sequencing, e.t.c.	A minimum of 18 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
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
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NOTE: *Gene Xpert is a class F categorise equipment for molecular tests, it may be allowed to conduct TB investigations in other medical laboratory classes at the discretion of the board.*

LIMS-Laboratory Information Management System

EQA-External Quality Assessment