## Survey on laboratory capacity



Survey complexity				
Select	the laboratory complexity			
$\bigcirc$	Simple			
$\bigcirc$	Average			
ledow	Complex			
Laboratory profile				
» General Information				
Date				
уууу-	mm-dd			

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## Country

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**Laboratory Name** 

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City /District	
Other	
Facility Name/ Address	
Laboratory address	

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GPS coordinates		
GPS: The Global Positioning System  latitude (x.y°)	DSYCY DHOTO	D.A.R. Sahara
longitude (x.y°)	onanes St. Vohanes St.	
altitude (m)	Wenelik II	THY TO LE CONTROL OF THE CONTROL OF
accuracy (m)	ium shan shows a sharp s	
Laboratory Contact Name		
Title of contact person		
Qualification of contact person		
Telephone work		
Telephone personal		
Contact email address		

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Blood l	bank		
$\bigcirc$	Yes		
$\bigcirc$	No		
Center	of HIV voluntary and testing		
	Yes		
	No		
Labora	tory Affiliation		
	Public	Private	Academic
	NGO/Religious		
	ration number ration is the identification of the facility in the n	ational registry	
$\bigcirc$	Yes		
$\bigcirc$	No		
	Not applicable		

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**Specify Registration number** 

Registration number issued by the MOH
Licence Number  The license is the authorization to practice  Yes  No  No  Not applicable
Specify Licence Number  Licence Number issued by the MOH for operation
Valid Until
yyyy-mm-dd
Laboratory days of service
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
Laboratory usual opening time (Monday)
hh:mm
Laboratory usual closing time (Monday)
hh:mm
Laboratory usual opening time (Tuesday)
hh:mm

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Laboratory usual closing time (Tuesday)
hh:mm
Laboratory usual opening time (Wednesday)
hh:mm
Laboratory usual closing time (Wednesday)
hh:mm
Laboratory usual opening time (Thursday)
hh:mm
Laboratory usual closing time (Thursday)
hh:mm
Laboratory usual opening time (Friday)
hh:mm
Laboratory usual closing time (Friday)
hh:mm
Laboratory usual opening time (Saturday)
hh:mm
Laboratory usual closing time (Saturday)
hh:mm
Laboratory usual opening time (Sunday)
hh:mm

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Laboratory usual closing time (Sunday)
hh:mm
On-call Services
<ul><li>✓ Yes</li><li>✓ No</li></ul>
Child Care
Yes
○ No
Laboratory Staffing Information
» Category of laboratory staff
How many pathologists work in the lab?
Pathologist: A physician who identifies diseases and conditions by studying abnormal cells and 'tissues.
How many microbiologists work in the lab?
Microbiologist: a scientist who studies microscopic life forms and processes.
How many lab technologists/scientists work in the lab?  Laboratory technologist: is a healthcare professional who works in all areas of the clinical laboratory (BSc level)
How many lab technicians work in the lab?
Laboratory technicians: is a healthcare professional who works in the clinical laboratory and performs technical or diagnostic tests in medical or scientific laboratories (Diploma level).
How many lab assistants /microscopists work in the lab?
Laboratory assistance: is a healthcare professional who works directly with other health care providers and patients and in the exciting laboratory setting. Microscopist: works in medical laboratory setting and identifies infections and species of parasites by microscopic examination.
How many phlebotomists work in the lab?
Phlebotomist: is medical professional who draws blood from patients for various lab tests and procedures

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How many healthcare staff work in the lab?				
e.g : Nurse, health assistance, etc.				
Infrastructure				
» Physical Structure and Space				
Laboratory in a dedicated area				
Dedicated area: Assigned to laboratory only				
Yes				
○ No				
Energy source				
Public Network Generator Solar energy				
Public Network & Generator Group Public & Solar Network				
Public Network & Generator & Solar Group Generator & Solar Group				
Gas				
Ventilation				
Only for sputum microscopy laboratory				
Working Windows Functional air conditioning				
Functional humidifier Fan (Floor / Ceiling) functional				
Functional air extractors				
Tunctional all extractors				
Staff toilet				
Yes				
○ No				
Patient's toilet				
Yes				
○ No				
Adequate storage area for:				
Yes				
○ No				

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Lab rea	agents and consumables				
	Yes				
	No				
Biologi	cal materials				
Biologic domain	al materials: Items such as pathogen, host, and	vecto	or specimens; molecular reagents; and o	lisease	models belong in the public
	Yes				
	No				
Dangei	ous chemicals				
e.g Acid etc	: hydrochloric acid, nitric acid, sulfuric acid, ace	tic aci	d, phosphoric acid. Bases—sodium hydr	oxide,	potassium hydroxide, ammonia,
	Yes				
	No				
Water	supply				
	Public network		Drilling / Chateau		Well Cemented
	Traditional well				
Hand v	vash basin				
$\bigcirc$	Yes				
$\bigcirc$	No				
Fire ex	tinguisher				
$\bigcirc$	Yes				
$\bigcirc$	No				
Safety	cabinet or a dead-end safety box for har	ndline	s highly infectious samples		
	Yes		, mgmy mreedlous sumples		
	No				
Waitin	g area for suspected Tuberculosis patien	ts			
	Yes				
$\bigcirc$	No				
Assess	ment of the general condition of the bui	lding	s		
	Roof		walls		benching
	Ground		Doors		Windows
	furniture		Cleanliness of the premises		

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How would you rank the roof qu	ality?		
$\bigcirc$	<del></del>	<del></del>	$\overline{}$
Good	Fair	Bad	Not Present
How would you rank the walls q	uality?		
Good	Fair	Bad	Not Present
How would you rank the benchi	ng quality?		
O			<del></del>
Good	Fair	Bad	Not Present
How would you rank the ground	quality?		
Good	Fair	Bad	Not Present
How would you rank the doors o	quality?		
$\bigcirc$	$\overline{}$	<del></del>	
Good	Fair	Bad	Not Present
How would you rank the window	vs quality?		
$\bigcirc$			
Good	Fair	Bad	Not Present
How would you rank the furnitu	re quality?		
<u> </u>			
Good	Fair	Bad	Not Present
How would you rank theCleanlin	ness of the premises quality	?	
$\bigcirc$	<del></del>	<del></del>	
Good	Fair	Bad	Not Present
Laboratory departments and te	sting menu		

» Laboratory tests (serology & molecular assays)

## » » HIV diagnostics

Rapid HIV antibody tests

Yes No

Number of test /year

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HIV serology (enzyme-linked immunosorbent assay (ELISA) linked immunosorbent assay,( LIA) / western blot (WB)  Yes  No
Number of test /year
Line immunoassay ( LIA) / western blot (WB)
Yes
○ No
Number of test /year
Early Infant diagnosis (EID); preparation of dried blood spot (DBS) for Early infant diagnostic testing
Yes
○ No
Number of test /year
Human Immunodeficiency Virus (HIV ) Polymerase chain reaction( PCR) for Early Infant diagnosis (EID)  Yes  No
Number of test /year
Viral load
Yes
○ No
Number of test /year
Genotypic ARV resistance testing
Yes
○ No

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Number of test /year		
» » Diagnostic of hepatitis viruses		
Diagnosis of Hepatitis B		
serology	quick test	viral load
genotyping	not available	
Diagnosis of Hepatitis C		
serology	quick test	viral load
genotyping	not available	
Diagnosis of Hepatitis E		
serology	quick test	viral load
genotyping	not available	
» » » Viral Hemorrhagic Fevers (VHF)		
Diagnosis of the Ebola virus		
serology	quick test	viral load
genotyping	not available	
Diagnosis of Rift Valley fever virus		
serology	quick test	viral load
genotyping	not available	
Diagnosis of Congo Crimean Hemorrhagic Feve	er	
serology	quick test	viral load
genotyping	not available	

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Diagnosis of Lassa fever		
serology genotyping	quick test not available	viral load
Diagnosis of the Dengue virus		
serology genotyping	quick test not available	viral load
Diagnosis of the Zika virus		
serology genotyping	quick test not available	viral load
Diagnosis of the Chikungunya virus		
serology genotyping	quick test not available	viral load
Diagnosis of yellow fever virus		
serology genotyping	quick test not available	viral load
» » Other viral infections		
Diagnosis of rabies virus		
serology	quick test	viral load
genotyping	not available	
Diagnosis of influenza virus		
serology	quick test	viral load
genotyping	not available	

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Rapid Influenza Antigen Test for Diagnosis of Pandem	nic (H1N1)	
serology	quick test	viral load
genotyping	not available	
Diagnosis of the SARS-CoV virus		
Polymerase chain reaction (PCR); Antibody tests: IgM	and IgG	
serology	quick test	viral load
genotyping	not available	
Diagnosis of the Nile Valley virus		
serology	quick test	viral load
genotyping	not available	
Diagnosis of Avian Flu ( H5N1)		
serology	quick test	viral load
genotyping	not available	
Diagnosis of the polio virus		
serology	quick test	viral load
genotyping	not available	
Diagnosis of cytomegalovirus (CMV)		
serology	quick test	viral load
genotyping	not available	
Diagnosis of rotavirus		
serology	quick test	viral load
genotyping	not available	

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Diagnosis of measles virus		
serology genotyping	quick test not available	viral load
Diagnosis of mumps virus		
serology genotyping	quick test not available	viral load
Diagnosis of the rubella virus		
serology genotyping	quick test not available	viral load
» » » Diagnostic of other infectious bacterial	diseases	
Diagnosis of brucellosis (BMAT)		
PCR	serology	quick test
Microscopy  not available	Culture	antibiogramme
Diagnosis of leptospirosis		
PCR	serology	quick test
Microscopy  not available	Culture	antibiogramme
Bacterial Meningitis		
PCR	serology	quick test
Microscopy	Culture	antibiogramme
not available		

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Diagnosis of hemolytic beta streptococcus gr	oup A	
PCR Microscopy not available	serology Culture	quick test antibiogramme
Diagnosis of cholera		
PCR Microscopy not available	serology  Culture	quick test antibiogramme
Diagnosis of salmonellosis		
PCR Microscopy not available	serology  Culture	quick test antibiogramme
Diagnosis of shigellosis		
PCR Microscopy not available	serology Culture	quick test antibiogramme
Diagnosis of diphtheria		
PCR Microscopy not available	serology Culture	quick test antibiogramme
Diagnosis of anthrax		
PCR Microscopy not available	serology  Culture	quick test antibiogramme

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Diagnosis of the plague
PCR serology quick test  Microscopy Culture antibiogramme  not available
» » TB diagnostics
Screening
Rapid blood test  Tuberculin skin test  not available
Identification
Acid Fast Bacilli (AFB) smear- Ziehl Neelsen  Light Emitting Diode (LED) Fluorescent Microscopy  Rapid speciation for M tuberculosis  Tuberculosis (TB)-Lamp
lateral flow urine lipoarabinomannan assay (LF-LAM)  Culture –Solid media
Culture-Liquid media Tuberculosis Polymerase chain reaction (TB PCR)
GeneXpert Mycobacterium tuberculosis (MTB)  MTBDRplus line probe assay (LPA)  not available
Resistance testing
Drug Susceptibility Testing (DST)-First Line
Drug Susceptibility Testing (DST) –Second Line not available
» » Parasitology
Malaria diagnostics
thin smear and / or thick blood dropRapid Tests of Malaria-Ag (RDT not available
Surveillance of antimalarial resistance  Yes  No

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Number of test /year		
Diagnosis of trypanosomes  Yes  No  Number of test /year		
·		
Diagnosis of intestinal parasites		
Direct examination Ritchie	Scotch Test  KATO -Katz	Belenger not available
» » Diagnosis of other parasitic infections		
Cryptococosis		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test
Trichomoniasis		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test
Toxoplasmosis		
Latex test  quick test  TPHA	Microscopy  Culture  Filamentation test	serology PCR Agglutination test
IDR at the leishmanine	not available	

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Urinary schistosomiasis		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test
Candidiasis		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test
Syphilis		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test
Chlamydia		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test
Leishmaniasis		
Latex test quick test TPHA IDR at the leishmanine	Microscopy  Culture  Filamentation test  not available	serology PCR Agglutination test

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serology

Agglutination test

PCR

Filariasis	
Latex test	Microscopy
quick test	Culture
ТРНА	Filamentation test
IDR at the leishmanine	not available
» » Immuno-Hematology and blood banking	
Blood group and rhesus factor determination	
Yes	
○ No	
Phenotype Rhesus (RH)-KEL	
Yes	
○ No	
Irregular Agglutinin test	
Yes	
○ No	
Hemoglobin electrophoresis	
Yes	
○ No	
Hemoglobin concentration	
Yes	
○ No	
Cluster of Differentiation 4 (CD4) absolute cou	nt / percentage
Yes	
No	
Full blood count with differentials	
Yes	
○ No	
Erythrocytes Sedimentation Rate(ESR)	

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Prothr	ombin Time (PT) and INR
$\bigcirc$	Yes
$\bigcirc$	No
Partial	Thromboplastin (PTT)
$\bigcirc$	
$\bigcirc$	No
Coomb	es test
$\bigcirc$	
$\bigcirc$	No
	ocyte count
0	Yes
$\bigcirc$	No
Bleedi	ng and clotting time
$\bigcirc$	Yes
$\bigcirc$	No
Lupus	Erythematous test
$\bigcirc$	Yes
$\circ$	No
Myelog	gram test
$\bigcirc$	Yes
$\bigcirc$	No
» » Ser	ology diagnostic
C-react	tive protein (CRP)
$\bigcirc$	Yes
$\bigcirc$	No
Procal	citonin (PCT)
$\bigcirc$	Yes
$\bigcirc$	No
Anti-N	uclear Antibodies (ANA)
$\bigcirc$	Yes
$\bigcirc$	No

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Prosta	te Specific Antigen (PSA)
$\bigcirc$	
$\bigcirc$	No
	luman chorionic gonadotropin (HCG)
$\bigcirc$	
$\bigcirc$	No
Cytom	egalovirus (CMV)
$\bigcirc$	Yes
$\bigcirc$	No
Rheum	atoid Factor (RF)
$\bigcirc$	
$\bigcirc$	No
Anti-St	reptolysin-O (ASLO)
$\bigcirc$	Yes
$\bigcirc$	No
Serolog	gy of infectious mononucleosis
$\bigcirc$	Yes
$\bigcirc$	No
» » Bio	chemistry
Glycen	
Glucose	
$\bigcirc$	
$\bigcirc$	No
Glycos	uria and albuminuria
$\bigcirc$	Yes
$\bigcirc$	No
Microa	lbumin
$\bigcirc$	Yes
$\bigcirc$	No
Urine o	dipstick for glycosuria and proteinuria
$\bigcirc$	Yes
$\bigcirc$	No

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Alanine	Aminotransferase(ALT) test
$\bigcirc$	No
Asparta	te Aminotransferase (AST) test
$\bigcirc$	No
Alkaline	e Phosphatase(ALP)
	Yes
$\bigcirc$	No
Bilirubi	n (Total)
	Yes
$\bigcirc$	No
Bilirubi	n (Direct)
$\bigcirc$	No
Gamma	-Glutamyl Transferase(γ-GT)
$\bigcirc$	No
Serum o	creatinine
	Yes
$\bigcirc$	No
Urine cı	reatine
	Yes
$\bigcirc$	No
Creatin	e Kinase(CK)
	Yes
$\bigcirc$	No
Creatin	e Clearance
	Yes
$\bigcirc$	No

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Lipase	
$\bigcirc$	Yes
$\bigcirc$	No
Proteir	n – total
$\bigcirc$	Yes
$\bigcirc$	No
Album	in
$\bigcirc$	Yes
$\bigcirc$	No
Amyla	se
$\bigcirc$	Yes
$\bigcirc$	No
Lactic	acid
$\bigcirc$	Yes
$\bigcirc$	No
Blood	urea nitrogen
Blood	
$\bigcirc$	
$\bigcirc$	Yes No
$\bigcirc$	Yes No
$\bigcirc$	Yes No nia
$\bigcirc$	Yes No nia Yes No
Azoten	Yes No nia Yes No
Azoten O Uric Ac	Yes No nia Yes No
Azoten O Uric Ac	Yes No nia Yes No tid Yes
Azoten O Uric Ac	Yes No nia Yes No sid Yes No holesterol
Azoten  Uric Ac  Total C	Yes No nia Yes No sid Yes No holesterol Yes
Azoten  Uric Ac  Total C	Yes No nia Yes No sid Yes No holesterol Yes
Azoten  O  Uric Ac  O  Total C  High-d	Yes No nia Yes No cid Yes No holesterol Yes No

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Low-density lipoprotein (LDL)- Cholesterol
Yes
○ No
Triglycerides
Yes
○ No
D-Dimer
Yes
○ No
Thyroid function Triiodothyronine (T3) Thyroxine (T4) and Thyroid Stimulating Hormone (TSH)
Yes
○ No
O NO
Hormonal tests (fertility)  Follicle Stimulating Hormone (FSH) Luteinizing Hormone (LH) Estradiol (E2) prolactin Testosterone (T) Progesterone (P4) 17-Hydroxyprogesterone (17-OHP)
Yes
○ No
Cortisol
Yes
○ No
Calcium ( total and free)
Yes
○ No
Electrolytes -Sodium ( Na+) , Potassium (K+) , Chloride ( Cl-)
Yes
○ No
Cerebrospinal fluid (CSF)
Yes
○ No
Other (s) to be specified)

» » Mycology/ Bacteriology

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Fungal culture		
conventional other	Bact Alert not available	Vitek (biomérieux)
Basal identification techniques for fungi		
Dying	Microscopic examination	
other	not available	
Blood culture		
conventional	Bact Alert	Vitek (biomérieux)
other	not available	
Routine bacterial culture		
conventional	Bact Alert	Vitek (biomérieux)
other	not available	
Identification of bacterial strains		
conventional	Bact Alert	Vitek (biomérieux)
other	not available	
Antibiotic sensitivity test		
Antibiogram (Kirby-Bauer)	Minimal inhibitory concent	ration (MIC)
other	not available	
» » Pathology / Histological tests		
Human papillomavirus (HPV)		
Yes		
No		
Skin snips biopsy -Onchocerciasis		
Yes		
○ No		

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Tumou	ır Marker test
$\bigcirc$	Yes
$\bigcirc$	No
Alpha-	Feto protein ( AFP)
$\bigcirc$	
$\bigcirc$	No
B-cell i	mmunoglobulin
$\bigcirc$	Yes
$\bigcirc$	No
Beta-2	microglobulin( B2M)
$\bigcirc$	Yes
$\bigcirc$	No
Cancer	antigen 15-3( CA 15-3)
$\bigcirc$	
$\bigcirc$	No
Cancer	antigen 19-9 ( CA 19-9)
$\bigcirc$	Yes
$\bigcirc$	
	No antigen 125( CA-125)
Cancer	No antigen 125( CA-125)
Cancer	No  r antigen 125( CA-125)  Yes  No
Cancer	No  r antigen 125( CA-125)  Yes  No onin
Cancer	No  r antigen 125( CA-125)  Yes  No  onin  Yes
Cancer	No  r antigen 125( CA-125)  Yes  No  onin  Yes
Cancer	r antigen 125( CA-125) Yes No nin Yes No mma-carboxy prothrombin( DCP)
Cancer Calcito Des-ga	Yes No nin Yes No mma-carboxy prothrombin( DCP) Yes
Cancer Calcito Des-ga	Yes No nin Yes No mma-carboxy prothrombin( DCP) Yes
Cancer Calcito Des-ga	rantigen 125( CA-125) Yes No nin Yes No mma-carboxy prothrombin( DCP) Yes No

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Monoclonal Immunoglobulins		
Yes		
○ No		
Cyto-puncture  Yes  No		
Fine Needle Aspiration Cytology (FNAC)		
Yes		
○ No		
Laboratory Quality Management System		
» Quality Management		
<b>Is there a Quality Management System (QMS)</b> <i>QMS: The application of the principles of QMS in the application of the application of QMS in the ap</i>		
Good Laboratory Practice(GLP)	ISO 15189	
☐ ISO 17025	ISO 9001	other
not available		
Is the laboratory using a laboratory quality m  QMS tools for process improvement	anagement tool?	
SLIPTA	SLMTA	LQMS
LQSI	other	not available
	other	Hot available
Score SLIPTA		
0 star	1 star	2 stars
3 stars	4 stars	5 stars
on applicable		
Is the laboratory certified?		
Yes		
○ No		

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Is the laboratory accredited?		
EGAG SADCAS TUNAC ISO	ENAO  KENAS  JCI  Other	SANAS NiNAS CAP not available
Designated focal point for quality?  Yes No  No  Quality manual available?  Yes No		
Is the laboratory enrolled in External quality a  EQA :A system for objectively checking the laboratory  Yes  No  Which ones?		cility.
Internal quality controls		
Slides Serology not available	Hematology Bacteriology	Biochemistry Other
Periodic and up-to-date temperature readings  Yes  No	;	
Laboratory connectivity		
<ul><li>» Types of connection</li><li>Telephone</li><li>Yes</li></ul>		
O No		

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Linkages to laboratory networks

A data backup: copying or archiving files and folders

» Laboratory network

Yes

No

which one?

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» » Surveillance network		
Pediatric Meningitis		
Yes		
No		
Trypanosomiasis		
Yes		
No		
Flu		
swine flu	abvian flu	human flu
SARS	not available	
Leprosy		
Yes		
○ No		
Hemorrhagic fevers		
Rift Valley Fever	Ebola	Dengue
Lassa fever	Zika	Chinkungunya
Fever of the Nile Valley	Congo Crimean Fever	
none		
Filariasis		
Yes		
○ No		
9		
Cholera or other Gastro enteritis		
Yes		
○ No		
Animal diseases		
Yes		
No		
Please specify		

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Antibiotic resistance of common bacterial infections
Yes
○ No
Antibiotic resistance of M tuberculosis
Yes
○ No
Resistance of Plasmodium to anti malaria drugs
Yes
○ No
Quality control of pharmaceutical products
Yes
○ No
» » Sample Referral network for disease diagnostic
Type of sample referral system
postal services professional courier
road network train
air (drones and planes) Other
not available
Tuberculosis diagnostic
Yes
○ No
Human Immunodeficiency Virus (HIV) viral load (plasma or Dried blood spot testing (DBS)
Yes
○ No
Human Immunodeficiency Virus (HIV) drug resistance (Plasma or Dried blood spot testing (DBS )
Yes
○ No
Identification of bacteria and antibiotic susceptibility testing
Yes
○ No

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Pathology testing services	
Yes	
○ No	
» » Collaboration with national, regional and international networks	
National tiered Laboratory network	
Yes	
○ No	
Network of public health laboratories (national)	
Yes	
○ No	
Regional (African regions) laboratory network	
Yes	
○ No	
Which ones?	
International laboratory network	
Yes	
Yes No.	
<ul><li>✓ Yes</li><li>✓ No</li></ul>	
○ No	
○ No	
No Which ones?	
Which ones?  Clinical research network	
Which ones?  Clinical research network  Yes	
No Which ones?  Clinical research network  Yes  No	
No Which ones?  Clinical research network  Yes  No	
No Which ones?  Clinical research network  Yes  No	
Which ones?  Clinical research network  Yes  No  No  Which ones?	٦
Which ones?  Clinical research network  Yes  No  No  Which ones?  Training and education	٦

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» » Integrated tiered network
Laboratory is supervised in the last 12 months
Yes
○ No
By which unit?
Laboratory supervises lower level of laboratories in the last 12 months
Yes
○ No
Communication
Institutional, structured communication established with the national public health laboratory
Institutional, structured communication established with the Directorate of laboratory or equivalent
Institutional, structured communication established with regional lab
The laboratory sends the specimens to other laboratories
Yes
○ No
List the number of labs sending the specimens
The laboratory receives specimens from other laboratories
Yes
○ No
List the number of labs receiving specimens
Reporting testing result to a higher level
Yes
○ No
List the number of labs reporting testing result

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Laboratory receives testing results from higher laboratories
Yes
○ No
List the number of labs receiving testing result
Biosafety and Biosecurity
Biosafety (BS) Level
BS: The safe handling and containment of infectious microorganisms and hazardous biological materials
BSL 1
BSL 2
BSL 3
BSL 4
Not applicable
Class of Biosafety Cabinet in use
Class I
Class II
Class III
Are all Biological Safety Cabinets (BSCs) certified?:
Yes
○ No
Is there a focal point for biosafety and biosecurity?
Yes
○ No
Adequate access control system in place?
Yes
○ No
Is there a biosafety training programme with regular training?
Yes
○ No
Date of last biosafety / biosecurity training?
vvvv-mm-dd

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Method for of solid waste elimination
access to a burner access to a locally made incinerator
access to a modern incinarator sending waste to centralized location
Is a doctor available for accidental harmful exposure?  Yes No
Is there a standardized clinical management for harmful accidental exposure?
<ul><li>✓ Yes</li><li>✓ No</li></ul>
Are all staff manipulating biological material vaccinated against hepatitis B?
Yes
○ No
Functional and up to date fire extinguishers in place in all desirable areas?  Yes  No
Training for the utilization of fire extinguisher provided  Yes
○ No
U NO
» Major equipment
» » Microscopy
Microscopy
Binocular stereoscopic microscope Fluorescent microscope
Electron Microscope Polarizing Microscope
camera microscope
» » Material characterization and testing
GeneXpert
Yes
( ) No

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/6/2018	
Number	
Number that function	
Thermocycler and accessories	
Yes	
No	
Number	
Number that function	
Sequencer	
Yes	
No	
Number	
Number that function	
Flow cytometry (FAcScan, FAcs	Calibur, other)
Yes	
No	
Number	
Number that function	

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Enzyme-linked immunosorber	nt assay (ELISA) chair
Yes	
O No	
Number	
	-
Number that function	
Electrophoresis	
Yes	
No	
<b>Biochemistry Analyser</b>	
Yes	
No	
Number	
Number that function	
Hematology analyzer	
Yes	
○ No	
Number	
Number that function	
Glucometer	
Yes	

No

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Automatic Identifier (Vitek II o	r Biolog)
Yes	
○ No	
Number	
Number that function	
Coagulometer	
Yes	
○ No	
Number	
Number that function	
Colorimeter	
Yes	
No	
Number	
Number that function	
Fluorometer	
Yes	
O No	
Number	

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Number that function	
	_
Microtome with accessories	
Yes	
No	
Number	
	_
Number that function	
	_
» » Cold Storage	
Freezer -20C	
Yes	
No	
Number	
	_
Number that function	
	_
Deep freezer -80C	
Yes	
O No	
Number	
Number	
	_
Number that function	
Refrigerator - 4C	_
Yes	
○ No	

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Number

Number	
Number that function	
Liquid nitrogen storage	
Yes	
○ No	
Production of liquid nitrogen	
Yes	
○ No	
Ice machine	
Yes	
No	
Production of dry ice	
Yes	
O No	
» » Hoods	
Fume Hoods	
Yes	
No	
Number	
Number that function	
Laminar flow	
Yes	
No	

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Number that function		
Biosafety cabinet		
Number that function		
Tissue culture room		
Yes No		
○ No		
» » Liquid handling		
Water Distiller		
Yes		
O No		
Water baths and chiller	'S	
O Yes		
O No		
Shaker		
Yes		
O No		
Roller mixer		
Yes		
No		
Vortex		
Yes		

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Automatic pipettes	
Micropipette 1-5 μl  Micropipette 5- 50μl  Micropipette 200- 1000μl	Micropipette 2-20 μl Micropipette 50- 200μ
Turbidimeter  Yes  No	
» » Incubators and other heating equip	oment
Autoclave Yes No Number	
Number that function	
Carbon dioxide (CO2) Incubator	
Yes	
No	
Number	
Number that function	
Hot air oven	
Yes	
○ No	
Number	

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Number that function	
	-
Dry heat blocks	
Yes	
No	
Number	
Number that function	-
Water bath	-
Yes	
○ No	
Number	
Number that function	-
» » Centrifugation	-
Bench top centrifuge	
Yes No	
Number	
Number that function	-
(refrigerated) High speed cent	rifuge (15 000-20 000rpm

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Number
Number that function
(refrigerated) Ultra centrifuge (up to 65 000)  Yes  No
Number
Number that function
Microtome with accessories  Microtome accessories: Blades, holders, and supplies  Yes  No  Number
Number that function
» » Others  Analytical Balance  Yes  No
Thermometer  Yes  No

» Equipment maintenance

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system for ti	ne regular maintenance of at least one	e major equipment in place
	maintenance contract	life sheets
	maintenance log books	SOP for preventive and curative maintenance books
	equipment are regularly maintained	
Yes No		
System for tl	ne routine calibration of pipetts in pla	ce
O Yes		
O No		
Replacement	t parts or important components for f	unctional equipment available?
Yes		
○ No		
Supply chain	management	
System to tra	ack laboratory consumption and stock	data
Yes		
O No		
Mechanism f	for laboratory reagents and supplies q	uantification
Yes		
O No		
	anagement system in this laboratory	
○ Yes		
O No		
Inspector / F	ield Data Representative Name	
Date		
yyyy-mm-do	d	

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