

# CERTIFICATE OF ACCREDITATION

## GABORONE PRIVATE HOSPITAL PATHOLOGY – LANCET LABORATORY

*Registration/Identity No: 1996/1770*

**Facility Accreditation Number: MED 043**

is a SADCAS accredited Medical Laboratory  
provided that all SADCAS conditions are complied with

This certificate is valid as per the scope stated in the accompanying schedule of accreditation,  
Annexure "A", bearing the above accreditation number for

**MEDICAL TESTING LABORATORY  
CLINICAL CHEMISTRY, ENDOCRINOLOGY, HAEMATOLOGY, MICROBIOLOGY,  
MOLECULAR BIOLOGY AND SEROLOGY,**

*The facility is accredited in accordance with the recognized International Standard*

**ISO 15189:2022**

*The accreditation demonstrates technical competency for a defined scope and the operation  
of a laboratory quality management system*

*SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and  
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States  
as a multi-economy accreditation body*

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**Eve Christine Gadzikwa  
SADCAS Chief Executive Officer**

**Date of Renewal of Accreditation: 16 January 2025  
Effective Date (Issue No: 1): 16 January 2025  
Certificate Expires: 15 January 2030**

## ANNEXURE A

### SCHEDULE OF ACCREDITATION

Laboratory Accreditation Number: **MED 043 (ISO 15189:2022)**

<p><b>Permanent Address of Laboratory</b> Gaborone Private Hospital Pathology - Lancet Laboratory Gaborone Private Hospital, Plot 8448, Mica Way Broadhurst, Gaborone Botswana</p> <p><b>Postal Address</b> Private Bag BR130 Gaborone Botswana</p> <p><b>Tel</b> : +267 3685706 <b>Cell</b> : +267 74600762 <b>Fax</b> : +267 3904912 <b>Email</b> : <a href="mailto:ananyang.makuku@lancet.co.bw">ananyang.makuku@lancet.co.bw</a></p>	<p><b>Technical Signatories</b> : As Authorized by the Head of Laboratory</p> <p><b>Nominated Representative</b> : Ms Ananyang Makuku</p> <p><b>Issue No</b> : 01 <b>Date of Issue</b> : 16 January 2025 <b>Expiry Date</b> : 15 January 2030</p>
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DISCIPLINE/SAMPLE TYPE	TYPES OF TESTS	EQUIPMENT/METHOD
<b><u>CLINICAL CHEMISTRY</u></b>		
Serum	Albumin	Cobas 6000
Serum	Alanine Aminotransferase (ALT)	Cobas 6000
Serum	Alkaline Phosphatase (ALP)	Cobas 6000
Serum	Amylase	Cobas 6000
Serum	Aspartate Aminotransferase (AST)	Cobas 6000
Serum	Bicarbonate (CO2)	Cobas 6000
Serum	C-Reactive Protein (CRP)	Cobas 6000
Serum	Bilirubin Direct	Cobas 6000
Serum	Bilirubin Total	Cobas 6000
Serum	Calcium Total	Cobas 6000
Serum	Cholesterol Total	Cobas 6000
Serum	Creatine Kinase (CK)	Cobas 6000
Serum	Creatinine	Cobas 6000
Serum	Gamma Glutamyl Transferase (YGT)	Cobas 6000
Serum	Iron	Cobas 6000
Serum	Lactate Dehydrogenase (LDH)	Cobas 6000
Serum	Magnesium	Cobas 6000
Serum	Phosphate	Cobas 6000
Serum	Potassium	Cobas 6000
Serum	Total Protein	Cobas 6000
Serum	Sodium	Cobas 6000
Serum	Transferrin	Cobas 6000

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Issue No: 01

Date of Issue: 16 January 2025

Date of Expiry: 15 January 2030

DISCIPLINE/SAMPLE TYPE	TYPES OF TESTS	EQUIPMENT/METHOD
<b><u>CLINICAL CHEMISTRY cont'd</u></b>		
Serum	Triglycerides	Cobas 6000
Serum	Urea	Cobas 6000
Serum	Uric Acid	Cobas 6000
Serum/CSF	Chloride	Cobas 6000
Plasma/CSF	Glucose	Cobas 6000
Whole Blood	HBAIC	Cobas 6000
CSF/Urine	Protein	Cobas 6000
Urine	Creatinine	Cobas 6000
Whole Blood	CKMB Mass	Cobas h232
Whole Blood	Troponin T	Cobas h232
<b><u>ENDOCRINOLOGY</u></b>		
Serum	Estradiol	Cobas 6000
Serum	Ferritin	Cobas 6000
Serum	Follicle Stimulating Hormone (FSH)	Cobas 6000
Serum	Free T4	Cobas 6000
Serum	Free T3	Cobas 6000
Serum	Beta - Human Chorionic Gonadotropin ( $\beta$ HCG)	Cobas 6000
Serum	Luteinizing Hormone (LH)	Cobas 6000
Serum	Progesterone	Cobas 6000
Serum	Prolactin	Cobas 6000
Serum	Prostate Specific Antigen (PSA) Total	Cobas 6000
Serum	Thyroid Stimulating Hormone (TSH)	Cobas 6000
Serum	Testosterone	Cobas 6000
<b><u>HAEMATOLOGY</u></b>		
Whole Blood	Activated Partial Thromboplastin Time (APTT)	Manual Method
Whole Blood	Blood Grouping (ABO) and Rh(D)	Manual Method
Whole Blood	Direct Coombs Test	Manual Method
Whole Blood	Indirect Coombs Test	Manual Method
Whole Blood	International Normalised Ratio (INR)	Manual Method
Whole Blood	Malaria Antigens	Manual Method
Whole Blood	Malaria Smears	Manual Method
Whole Blood	Reticulocyte Count	Manual Method
Whole Blood	D-Dimer	Cobas h232
Whole Blood	FBC	Sysmex XN 2000
Whole Blood	ESR	Alifax Roller 20 PN
Whole Blood	ESR	Manual Westergren Method
Plasma	CD4	Facs Count

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DISCIPLINE/SAMPLE TYPE	TYPES OF TESTS	EQUIPMENT/METHOD
<b><u>MICROBIOLOGY</u></b>		
Urine	Wet Preparations; - cells, casts, crystals, parasites	Manual Method - Microscopy
Stool	Wet Preparation; - cells, yeasts Modified Ziehl Neelsen: Cryptosporidium	Manual Method - Microscopy
Genital Swabs	Wet Preparation	Manual Method
Fluids	Wet Preparation - Identification of Crystals Gram Stain	Manual Method - Polarizing Microscopy Manual Method – Brightfield Microscopy
CSF, Blood culture, Fluids (Ascitic, Abdominal, Chest, Blood, Lungs, Joints, Pleural, Peritoneal, Ovarian, Breast, Gastric, Wound Drainage, Ovarian, Breast), Pus Swabs, Ear/Nose/Throat Swabs, Genital Swabs, Sputum		
Urine, Stool, CSF, Fluids (Ascitic, Abdominal, Chest, Lung, Pleural, Joint, Peritoneal, Sputum)	Macroscopy	Manual Method
Sputum	Q Score – Adequacy	Manual Method
Stool	Adenovirus Rotavirus	Manual CORIS Combi – Strips
CSF, Fluids (Ascitic, Abdominal, Chest, Lung, Pleural, Joint, Peritoneal, Sputum)	Ziehl Neelsen	Microscopy
CSF	India Ink	Manual Method
Urine	Wet Preparation: RBC & WBC Cell Count Chemistry	Manual Method
CSF, Fluids (Ascitic, Abdominal, Chest, Lung, Pleural, Joint, Peritoneal)	Differential Count	Manual Method
Stool	Serotyping: Salmonella species and Shigella species Occult Blood	Manual Method Manual method Manual Method - CROMA TEST

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DISCIPLINE/SAMPLE TYPE	TYPES OF TESTS	EQUIPMENT/METHOD
<b><u>MICROBIOLOGY cont'd</u></b>		
CSF	Bacterial Antigen	Manual Method
CSF	Cryptococcal Antigen	Manual Method
CSF, Blood culture, Fluids (Ascitic, Abdominal, Chest, Blood, Lungs, Joints, Pleural, Peritoneal, Ovarian, Breast, Gastric, Wound Drainage)	Culture Antimicrobial Sensitivity Testing Bacterial Identification Testing; Oxidase, Catalase, DNase	Manual Method Manual Method – Kirby Bauer
Pus Swabs, Ear/Nose/ Throat Swabs, Genital Swabs, Sputum	PASTOREX Staph-Plus Streptococcal grouping API 10s, 20E Bile Aesculin Pyruvate 6.5% Salt broth B-Lactamase (Nitrocefin)	PASTOREX Staph -Plus Streptex Manual Method
Blood Culture	Incubation and detection of Microbial growth	Manual Method
<b><u>MOLECULAR BIOLOGY</u></b>		
Plasma	HIV Viral Load	Cobas 4800
<b><u>SEROLOGY</u></b>		
Serum	Rheumatoid Factor (RF)	Manual Method
Serum	Rapid Plasma Reagin (RPR)	Manual Method
Serum	Treponema Pallidum Haemagglutinin (TPHA)	Manual Method
Serum	Helicobacter Pylori	Manual Method
Serum	Hepatitis A IgM	Cobas 6000
Serum	Hepatitis B Core Ab	Cobas 6000
Serum	Hepatitis B Surface Antigen (HBsAg)	Cobas 6000
Serum	HIV ELISA	Cobas 6000
Serum	Rubella IgG	Cobas 6000
Serum	Rubella IgM	Cobas 6000
Serum	Rapid HIV	Manual Method
Serum/Urine	Qualitative $\beta$ HCG	Manual Method

Original date of accreditation: 16 January 2020

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**Mrs Pinkie J Malebe**  
**SADCAS Technical Manager**