

CERTIFICATE OF ACCREDITATION

NAMIBIAN STANDARDS INSTITUTION - TESTING CENTRE LABORATORY

Standards Act of 2005 No.18

Facility Accreditation Number: TEST-1 0020

is a SADCAS accredited Testing 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

MICROBIOLOGICAL ANALYSIS

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

*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*

Eve C Gadzikwa
SADCAS Chief Executive Officer

Date of Renewal of Accreditation 24 August 2024
Effective Date (Issue No: 1): 12 December 2024
Certificate Expires: 11 December 2029

ANNEXURE A
SCHEDULE OF ACCREDITATION
MICROBIOLOGICAL ANALYSIS

Laboratory Accreditation Number: TEST-1 0020 (ISO/IEC 17025:2017)

<p>Permanent Address of Laboratory Namibian Standards Institution – Testing Centre Light Industrial Area Langer Heinrich Crescent ERF No. 4466 Walvis Bay Namibia</p> <p>Postal Address: P O Box 123 Walvis Bay Namibia</p> <p>Tel : +264 64 216 600 Cell : +264 81 147 5386 Direct : +264 64 216 609 Email : Nseua@nsi.com.na</p>	<p>Technical Signatories: Ms S Shiindi (All methods) Mr D Shipena (All methods, except TM/M/33) Mr S W Shityeni (All methods, except TM/M/33) Mr A Hashoongo (All methods) Ms R Hamunyela (All methods, except TM/M/33) Ms A Haukongo (All methods, except TM/M/33) Ms J Kapalanga (All methods, except TM/M/33, TM/M/35 & TM/M/36)</p> <p>Nominated Representative : Ms A Nseu</p> <p>Issue No : 01 Date of Issue : 12 December 2024 Expiry Date : 11 December 2029</p>	
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
<p>Food Products Fish and Fishery Products, Meat and Meat Products, Ready-to-eat foods, Egg and Egg Products, Chicken and Chicken Products, Flour, Fruits and Vegetables, Fish Meal and Animal Feed</p> <p>Fish and Fishery Products, Meat and Meat Products, Egg and Egg Products, Chicken and Chicken Products, Ready-to-eat Foods, Swabs, Flour, Fruits and Vegetables, Fish Meal and Animal Feed</p>	<p>Enumeration of Total Viable Colony Count Enumeration of β-glucuronidase-positive <i>Escherichia coli</i> Enumeration of coagulase-positive Staphylococci including <i>Staphylococcus aureus</i></p> <p>Detection and enumeration of Enterobacteriaceae Enumeration of Coliforms</p>	<p>TM/M/01 based on ISO 4833-1 TM/M/04 based on ISO 16649-2</p> <p>TM/M/05 based on ISO 6888-1</p> <p>TM/M/02 based on ISO 21528-2 TM/M/03 based on SANS 4832</p>

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<p>Food Products Fish and Fishery Products, Shellfish, Meat and Meat Products, Chicken and Chicken Products, Ready-to-eat foods, Egg and Egg Products</p> <p>Fish & Fishery Products, Chicken And Chicken Products, Ready-to-eat Food, Meat and Meat Products, Environmental Hygiene, Swabs and Shellfish</p> <p>Fish and Fishery Products, Meat and Meat Products, Ready-to-eat foods, Egg and Egg Products, Chicken and Chicken Products</p> <p>Fish and Fishery Products, Meat and Meat Products, Egg and Egg Products, Chicken and Chicken Products, Ready-to-eat Foods, Swabs</p> <p>Fish and Fishery Products, Meat and Meat Products, Chicken and Chicken Products, Ready-to-eat foods, Egg and Egg Products, Fruits and Vegetables, Flour, Fish Meal and Animal Feed</p> <p>Fish & Fishery Products, Chicken, and Chicken Products, Ready-to-Eat Food, Egg and Egg Products, Meat and Meat Products, Fruits and Vegetables, Fish Meal Animal Feeds, Environmental Hygiene Swabs, Spices, Dairy Products, Grains, Cereals Canned/ Pouched products (Meat, Fish, Chicken, Fruits and Vegetables)</p>	<p>Detection of <i>Vibrio</i> spp. Including <i>Vibrio parahaemolyticus</i>, <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i></p> <p>Enumeration of <i>Vibrio parahaemolyticus</i></p> <p>Detection of <i>Shigella</i> spp. Enumeration of <i>Clostridium perfringens</i></p> <p>Detection of <i>Salmonella</i> spp.</p> <p>Detection of <i>Listeria monocytogenes</i></p> <p>Enumeration of <i>Listeria</i> spp. Including <i>Listeria monocytogenes</i></p>	<p>TM/M/06 based on ISO 21872-1</p> <p>TM/M/35 based on adopted methods ISO 21872-1 and Bacteriological Analytical Manual (BAM)</p> <p>TM/M/07 based on ISO 21567 TM/M/09 based on ISO 15232-2</p> <p>TM/M/08 based on ISO 6579-1</p> <p>TM/M/10 based on ISO 11290-1</p> <p>TM/M/36 based on SANS 11290-2</p>

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Shellfish	Enumeration of <i>Escherichia coli</i> by MPN	TM/M/11 based on ISO 16649-3
Swabs	Enumeration of Total Viable Colony Count Detection of Faecal coliforms and <i>Escherichia coli</i>	TM/M/12 based on SANS 5763 TM/M/13 based on VC 8031
Potable Water – Tap water, RO ₃ Water Borehole water, Bottled Water, Retort Water and Ice, Sea Water (Treated/ untreated and Ice), Effluent Water (Treated and Untreated)	Enumeration of Total Viable Colony Count Enumeration of Total Coliforms using Membrane Filtration Enumeration of Faecal coliforms and <i>Escherichia coli</i> using Membrane Filtration Enumeration of Intestinal Enterococci using Membrane Filtration Detection and Enumeration of <i>Pseudomonas aeruginosa</i> Enumeration of <i>Clostridium perfringens</i> using Membrane Filtration Enumeration of Total Viable Count at 22°C	TM/M/14 based on SANS 5221 TM/M/15 based on SANS 5221 TM/M/16 based on SANS 5221 TM/M/17 based on SANS 7899 TM/M/23 based on ISO 16266 TM/M/26 based on ISO 14189 TM/M/30 adapted from Microbiology of Drinking water (2012) Part 7- Environmental Agency
Microbial Cultures	Enumeration of Total Viable Count at 37°C	TM/M/31 adapted from Microbiology of Drinking water (2012) Part 7- Environmental Agency
	Identification of Bacterial & Yeast Cultures	TM/M/21 using Vitek MS
Fish and Fishery Products, Meat and Meat Products, Chicken and Chicken Products, Ready-to-eat foods, Egg and Egg Products, Vegetables and Swabs	Enumeration of <i>Bacillus cereus</i>	TM/M/24 based on SANS 7932
Canned / Pouched Products (Meat, Fish, Chicken, Fruits and Vegetables)	Commercial Sterility Test	TM/M/25 based on SANS 6257

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Fish and Fishery Products, Meat and Meat Products, Ready-to-eat Foods including dried products, Egg and Egg Products, Cereals, Poultry and Poultry Products, Dairy and Dairy Products, Spices, Swabs, Flour, Dried Seeds and Grains, Animal Feed including Pet Food, Fruits and Vegetables, Fish Meal	Enumeration of Yeasts and Moulds	TM/M/32 based on ISO 21527-1 & 2
<u>Water and Disinfectants Products</u>		
Alcohol- based Hand Sanitizer and Disinfectants	Evaluation of antimicrobial and bactericidal efficacy in alcohol-based disinfectants	TM/M/33 based on SANS 5261
Potable Water (Tap, RO ₃ Borehole, Bottled Water and Ice), Subsurface Water (Rivers, Dams, Seaside, Lakes, Streams, Swimming Pool, Wastewater) Seawater including Ice, Effluent Water and Swabs	Sampling	SOP/M/04 based on SAN 5763, VC8031, V6V-1H4, Examination water and wastewater, American water works association

Original date of accreditation: 12 December 2019

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Pinkie J Malebe
SADCAS Technical Manager