

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 Christine 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 Direct : +264 64 216 47 Cell : +264 81 341 3866 Email : uusikum@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) Ms L Shikongo (All methods, except TM/M/33)</p> <p>Nominated Representative : Ms M Uusiku :</p> <p>Issue No : 02 Date of Issue : 11 September 2025 Expiry Date : 11 December 2029</p>
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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, Poultry and Poultry Products, Cereals including Seeds and Grains, Fruits and Vegetables, Fish Meal and Animal Feeds</p>	Enumeration of Total Viable Colony Count	TM/M/01 based on ISO 4833-1
	Enumeration of β -glucuronidase-positive <i>Escherichia coli</i>	TM/M/04 based on ISO 16649-2
<p>Fish and Fishery Products, Meat and Meat Products, Egg and Egg Products, Poultry and Poultry Products, Ready-to-eat Foods, Environmental Hygiene Swabs, Cereals including Seeds and Grains, Fruits and Vegetables, Fish Meals and Animal Feeds</p>	Detection and enumeration of Enterobacteriaceae	TM/M/02 based on ISO 21528-2
	Enumeration of Coliforms	TM/M/03 based on SANS 4832
	Enumeration of coagulase-positive Staphylococci including <i>Staphylococcus aureus</i>	TM/M/05 based on ISO 6888-1

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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, Poultry and Poultry Products, Ready-to-eat foods, Egg and Egg Products</p> <p>Fish and Fishery Products, Meat and Meat Products, Ready-to-eat foods, Egg and Egg Products, Poultry and Poultry Products, Fruits and Vegetables, Environmental Hygiene Swabs, Cereals including Seeds and Grains, Fish Meals, Animal Feeds, Canned and Pouched Products</p> <p>Shellfish</p> <p>Environmental Hygiene Swabs</p> <p>Potable Water (Tap water, RO₃ Water, Borehole water, Bottled water, Retort water and Ice), Sea Water (Treated/ Untreated and Ice), Effluent water (Treated and Untreated)</p>	<p>Detection of <i>Vibrio</i> spp. Including <i>Vibrio parahaemolyticus</i>, <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i></p> <p>Detection of <i>Shigella</i> spp.</p> <p>Detection of <i>Salmonella</i> spp.</p> <p>Enumeration of <i>Clostridium perfringens</i></p> <p>Detection of <i>Listeria monocytogenes</i></p> <p>Enumeration of <i>Escherichia coli</i> by MPN</p> <p>Enumeration of Total Viable Colony Count</p> <p>Detection of Faecal coliforms and <i>Escherichia coli</i></p> <p>Enumeration of Total Viable Colony Count</p> <p>Enumeration of Total Coliforms</p> <p>Enumeration of Faecal coliforms and <i>Escherichia coli</i></p> <p>Enumeration of Intestinal Enterococci</p> <p>Detection and Enumeration of <i>Pseudomonas aeruginosa</i></p> <p>Enumeration of <i>Clostridium perfringens</i></p>	<p>TM/M/06 based on ISO 21872-1</p> <p>TM/M/07 based on ISO 21567</p> <p>TM/M/08 based on ISO 6579-1</p> <p>TM/M/09 based on ISO 15232-2</p> <p>TM/M/10 based on ISO 11290-1</p> <p>TM/M/11 based on ISO 16649-3</p> <p>TM/M/12 based on SANS 5763</p> <p>TM/M/13 based on VC 8031</p> <p>TM/M/14 based on SANS 5221</p> <p>TM/M/15 based on SANS 5221 using Membrane Filtration</p> <p>TM/M/16 based on SANS 5221 using Membrane Filtration</p> <p>TM/M/17 based on SANS 7899 using Membrane Filtration</p> <p>TM/M/23 based on ISO 16266</p> <p>TM/M/26 based on ISO 14189 using Membrane Filtration</p>

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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 Count at 22°C	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
Fish and Fishery Products, Meat and Meat Products, Poultry and Poultry Products, Ready-to-eat foods, Egg and Egg Products and Environmental Hygiene Swabs	Identification of Bacterial & Yeast Cultures	TM/M/21 using Vitek MS
Canned / Pouched Fish and Fishery Products, Canned / Pouched Meat and Meat Products, Canned / Pouched Poultry and Poultry Products, Canned / Pouched Fruits and Fruit Products, Canned / Pouched Vegetables and Vegetable Products	Enumeration of <i>Bacillus cereus</i>	TM/M/24 based on SANS 7932
Fish and Fishery Products, Meat and Meat Products, Ready-to-eat Foods, Egg and Egg Products, Fruits and Vegetables, Poultry and Poultry Products, Dairy and Dairy Products, Spices, Environmental Hygiene Swabs, Cereals including Seeds and Grains, Fish Meals and Animal Feeds	Commercial Sterility Test	TM/M/25 based on SANS 6257
Alcohol- based hand sanitizer and Disinfectants	Enumeration of Yeasts and Moulds	TM/M/32 based on ISO 21527-1 & 2
	Evaluation of antimicrobial and bactericidal efficacy in alcohol-based disinfectants	TM/M/33 based on SANS 5261

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Fish & Fishery Products, Poultry and Poultry Products, Egg and Egg Products, Ready-to-eat Food, Meat and Meat Products, Fruits and Vegetables, Environmental Hygiene Swabs, Cereals including Seeds and Grains, Canned / Pouched Products	Enumeration of <i>Vibrio parahaemolyticus</i>	TM/M/35 based on adopted methods ISO 21872-1 and Bacteriological Analytical Manual (BAM)
Fish & Fishery Products, Poultry and Poultry Products, Ready-to- Eat Food, Egg and Egg Products, Meat and Meat Products, Fruits and Vegetables, Environmental Hygiene Swabs, Dairy and Dairy Products, Cereals including seeds/grains; Fish Meals; Animal Feeds, Spices, Canned/Pouched Products	Enumeration of <i>Listeria</i> spp. Including <i>Listeria monocytogenes</i>	TM/M/36 based on SANS 11290-2
Potable Water (Tap water, RO ₃ Water, Borehole water, Bottled water, Retort water and Ice), Subsurface Water (Rivers, Dams, Seaside, Lakes, Streams, Swimming Pools, Effluent/ Wastewater, Ocean), Seawater (treated and untreated including Ice, Environmental Hygiene 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