



CERTIFICATE OF ACCREDITATION

This is to certify that

LABORATOIRE INTERNATIONALE DE BIO ANALYSE (LIBA) LTEE

Testing Laboratory No.: T015

is accredited by the ***Mauritius Accreditation Service (MAURITAS)***
for the following Testing fields:

CHEMICAL

and

BIOLOGICAL

as per scope of schedule of accreditation

THIS LABORATORY MEETS THE REQUIREMENTS OF ISO/IEC 17025:2017

This accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system and shall remain in force subject to continuing compliance with MAURITAS accreditation criteria, ISO/IEC 17025:2017 and any further requirements specified by MAURITAS

Issue Date: 11 February 2020

Director of MAURITAS

This certificate is valid only when accompanied by its schedule of Accreditation.



Schedule of Accreditation
Laboratory No.: T015
(accredited to ISO/IEC 17025:2017)

Permanent Address of Laboratory:
Laboratoire International de Bio Analyse
(LIBA) Ltee.
Floreal Business Park
La Hausse de la Louviere Street
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Issue No: 05

Expiry Date: 10 February 2024

	<i>Materials/Products Tested</i>	<i>Types of tests/Properties Measured Range of Measurement</i>	<i>Specification/Standard methods or techniques used</i>
I.	Chemical		
1.	Water	Alkalinity	APHA 2320 B, 23 rd Ed
		Appearance	APHA 2110, 23 rd Ed
		BODn	NF EN 1899-1 (Mai 1998)
		Chloride	APHA 4500-Cl ⁻ B, 23 rd Ed (Argentometric Method)
		Chlorine free/total	ISO 7393-2: 1985 (Colorimetry)
		COD	APHA 5220 C, 23 rd Ed
		Conductivity	APHA 2510 B, 23 rd Ed
		Dissolved Oxygen	ISO 5813: 1983 (E)

	Nitrate	ISO 7890-3: 1988 (Spectrometric Method)
	Ammonia as NH ₃ -N	APHA 4500-NH ₃ B/C, 23 rd Ed
	Oil and Grease	APHA 5520 B, 23 rd Ed
	pH Value	APHA 4500-H ⁺ B, 23 rd Ed (Electrometry)
	Phosphorus as Orthophosphate	ISO 6878 : 2004 (E) Clause 4
	Total Suspended Solids	NF EN 872 : 2005
	Total Dissolved Solids	APHA 2540 C, 23 rd Ed
	Sulphate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed
	Anionic Surfactants as MBAS	APHA 5540 C, 23 rd Ed
	Kjeldahl Nitrogen	NF EN 25663 :1994
	Total Hardness (EDTA) as CaCO ₃	APHA 2340C, 23 rd Ed (EDTA Titrimetric Method)
	Calcium Hardness as CaCO ₃	APHA 3500 – Ca, 23 rd Ed (EDTA Titrimetric Method)
	Magnesium Hardness	APHA 2340C & 3500-Ca, 23 rd Ed (EDTA Titrimetric Method) – By Calculation
	Calcium	APHA 3500-Ca B, 23 rd Ed (EDTA Titrimetric Method) – By Calculation
	Magnesium	APHA 2340C & 3500-Ca, 23 rd Ed (EDTA Titrimetric Method) – By Calculation

II.	Biological		
1.	Water	<p>Coliform group (Membrane Filtration)</p> <p>Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria - Part 1: Membrane filtration method</p> <p>Enumeration of <i>Escherichia coli</i> and coliform bacteria - Part 2: Most probable number method</p> <p>Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium</p> <p>Detection of <i>Salmonella</i> spp.</p> <p>Detection and Enumeration of the spores of sulphite-reducing anaerobes (<i>Clostridium</i>) Part 2: Method by membrane filtration</p> <p>Recherche et Dénombrement des <i>Staphylocoques</i> Pathogènes – Méthode par filtration sur membrane.</p> <p>Enterococci</p> <p>Faecal Coliforms</p> <p>Detection of <i>Legionella</i> spp.</p> <p>Enumeration and Detection of <i>Legionella</i> spp.</p> <p>Enumeration of <i>Pseudomonas aeruginosa</i></p>	<p>APHA 9222 B, 23rd Ed</p> <p>ISO 9308-1:2014/Amd. 1:2016</p> <p>ISO 9308-2:2012</p> <p>ISO 6222 :1999</p> <p>ISO 19250 :2010</p> <p>ISO 6461-2 :1986</p> <p>XPT90-412</p> <p>LQP 504-04 Section 40 - MPN</p> <p>LQP 504-04 Section 36 - MPN</p> <p>LQP 504-04 Section 50 - Rapid test</p> <p>ISO 11731 :2017E</p> <p>LQP 504-04 Section 44 - MPN</p>

2.	Food	<p>Detection of <i>Shigella</i> spp.</p> <p>Enumeration of <i>Clostridium perfringens</i></p> <p>Detection and Enumeration of Coliforms (MPN)</p> <p>Enumeration of Coliforms</p> <p>Detection and Enumeration of Presumptive <i>E. coli</i> (MPN)</p> <p>Enumeration of Micro-organisms Colony Count @ 30°C</p> <p>Enumeration of <i>Coagulase positive staphylococci</i> (BP medium)</p> <p>Enumeration of <i>Coagulase positive staphylococci</i> (MPN)</p> <p>Enumeration of Presumptive <i>Bacillus cereus</i> (count)</p> <p>Detection and Enumeration of <i>L. monocytogenes</i></p> <p>Detection and Enumeration of <i>L. monocytogenes</i></p> <p>Enumeration of <i>Pseudomonas</i> spp.</p> <p>Yeast count: Horizontal method for the enumeration of yeasts and moulds – Part 1: Colony count technique in products with water activity greater than 0.95</p> <p>Moulds count: Horizontal method for the enumeration of yeasts and moulds – Part 1: Colony count technique in products with water activity greater than 0.95</p>	<p>ISO 21567 :2004 (F)</p> <p>ISO 7937:2004 (E)</p> <p>ISO 4831:2006 (E)</p> <p>ISO 4832:2006 (E)</p> <p>ISO 7251:2005 (E)</p> <p>ISO 4833-1:2013 (E)</p> <p>ISO 6888-1:2021</p> <p>ISO 6888-3 :2003 (E)</p> <p>ISO 7932 :2004 (E)</p> <p>ISO 11290-1 :2017</p> <p>ISO 11290-2 :2017</p> <p>ISO 13720 :2010 (E)</p> <p>ISO 21527-1:2008</p> <p>ISO 21527-1:2008</p>
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		Yeast & Moulds count: Horizontal method for the enumeration of yeasts and moulds – Part 1: Colony count technique in products with water activity greater than 0.95	ISO 21527-1:2008
		Yeast count: Horizontal method for the enumeration of yeasts and moulds – Part 2: Colony count technique in products with water activity less than or equal to 0.95	ISO 21527-2:2008
		Moulds count: Horizontal method for the enumeration of yeasts and moulds – Part 2: Colony count technique in products with water activity less than or equal to 0.95	ISO 21527-2:2008
		Yeast & Moulds count: Horizontal method for the enumeration of yeasts and moulds – Part 2: Colony count technique in products with water activity less than or equal to 0.95	ISO 21527-2:2008
		Horizontal method for the enumeration of mesophilic Lactic Acid Bacteria – Colony count at 30°C.	ISO 15214:1998
3.	Food and animal feeding stuffs	Horizontal method for the detection of <i>E.coli</i> O157	ISO 16654:2001 /Amendment 1:2017
		Horizontal method for detection and enumeration of <i>Campylobacter</i> spp. – Part 1: Detection method	ISO 10272-1: 2006
		Horizontal method for the determination of <i>Vibrio</i> spp. – Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>	ISO 21872-1: 2017

	Horizontal method for the detection of presumptive pathogenic <i>Yersinia enterocolitica</i> .	ISO 10273: 2003
	Horizontal method for the detection and enumeration of <i>Enterobacteriaceae</i> – Part 2: Colony count method	ISO 21528-2: 2004
	Horizontal method for the detection and enumeration of <i>Enterobacteriaceae</i> – Part 1: Detection and Enumeration by MPN technique with pre-enrichment.	ISO 21528-1: 2004
	Horizontal method for the determination of low numbers of presumptive <i>Bacillus cereus</i> – MPN technique and detection method.	ISO 21871:2006
	Horizontal method for the enumeration of β -glucuronidase-positive <i>Escherichia coli</i> . – Part 2: Colony Count technique at 44°C using 5-bromo-4-chloro-3 indolyl β -D-glucoronide.	ISO 16649-2: 2001
	Detection of <i>Salmonella</i> spp.	ISO 6579-1 :2017 /Amendment 1 :2020

Issued by the Mauritius Accreditation Service (MAURITAS)

Date: 22 May 2023

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Director of MAURITAS