



## 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 2024

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  
Floreal

**Postal Address:**

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**Issue No.:** 06

**Expiry Date:** 28 November 2027

|           | <i>Items, Materials or Products Tested</i> | <i>Types of tests/Properties Measured<br/>Range of Measurement</i>   | <i>Specification/Standard methods or techniques used</i>  |
|-----------|--|--|---|
| <b>I.</b> | <b>Chemical</b>                            |  |   |
| A.        | Water                                      | 1. Alkalinity<br>2. Appearance<br>3. BODn<br>4. Chloride<br>5. COD<br>6. Conductivity<br>7. Dissolved Oxygen<br>8. Nitrate | APHA 2320 B, 24 <sup>th</sup> Ed<br>APHA 2110, 24 <sup>th</sup> Ed<br>NF EN 1899-1 (Mai 1998)<br>APHA 4500-Cl <sup>-</sup> B, 24 <sup>th</sup> Ed<br>(Argentometric Method)<br>APHA 5220 C, 24 <sup>th</sup> Ed<br>APHA 2510 B, 24 <sup>th</sup> Ed<br>ISO 5813: 1983 (E)<br>ISO 7890-3: 1988<br>(Spectrometric Method) |

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|  | 9. Ammonia as NH <sub>3</sub> -N                  | APHA 4500-NH <sub>3</sub> B/C, 24 <sup>th</sup> Ed   |
|  | 10. Oil and Grease                                | APHA 5520 B, 24 <sup>th</sup> Ed   |
|  | 11. pH Value                                      | APHA 4500-H <sup>+</sup> B, 24 <sup>th</sup> Ed<br>(Electrometry)                          |
|  | 12. Phosphorus as<br>Orthophosphate               | ISO 6878 : 2004 (E) Clause 4   |
|  | 13. Total Suspended Solids                        | NF EN 872 : 2005   |
|  | 14. Total Dissolved Solids                        | APHA 2540 C, 24 <sup>th</sup> Ed   |
|  | 15. Sulphate                                      | APHA 4500-SO <sub>4</sub> <sup>2-</sup> E, 24 <sup>th</sup> Ed                             |
|  | 16. Anionic Surfactants as<br>MBAS                | APHA 5540 C, 24 <sup>th</sup> Ed   |
|  | 17. Kjeldahl Nitrogen                             | NF EN 25663 :1994  |
|  | 18. Total Hardness (EDTA) as<br>CaCO <sub>3</sub> | APHA 2340C, 24 <sup>th</sup> Ed<br>(EDTA Titrimetric Method)                               |
|  | 19. Calcium Hardness as CaCO <sub>3</sub>         | APHA 3500 – Ca, 24 <sup>th</sup> Ed<br>(EDTA Titrimetric Method)                           |
|  | 20. Magnesium Hardness                            | APHA 2340C & 3500-Ca, 24 <sup>th</sup> Ed<br>(EDTA Titrimetric Method) –<br>By Calculation |
|  | 21. Calcium                                       | APHA 3500-Ca B, 24 <sup>th</sup> Ed (EDTA<br>Titrimetric Method) –<br>By Calculation       |
|  | 22. Magnesium                                     | APHA 2340C & 3500-Ca, 24 <sup>th</sup> Ed<br>(EDTA Titrimetric Method) –<br>By Calculation |

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| <b>II.</b> | <b>Biological</b> |  |  |
| A.         | Water             | <ol style="list-style-type: none"> <li>1. Coliform group (Membrane Filtration)</li> <li>2. Detection and enumeration of Escherichia coli and coliform bacteria – Part 1: Membrane filtration method</li> <li>3. Enumeration of Escherichia coli and coliform bacteria - Part 2: Most probable number method</li> <li>4. Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium</li> <li>5. Detection of Salmonella spp.</li> <li>6. Detection and Enumeration of the spores of sulphite-reducing anaerobes (Clostridium) Part 2: Method by membrane filtration</li> <li>7. Recherche et Dénombrement des Staphylocoques Pathogènes – Méthode par filtration sur membrane.</li> <li>8. Enterococci</li> <li>9. Faecal Coliforms</li> <li>10. Detection of Legionella spp</li> <li>11. Enumeration and Detection of Legionella spp.</li> <li>12. Enumeration of Pseudomonas aeruginosa</li> </ol> | <p>APHA 9222 B, 24<sup>th</sup> 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> |

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| B. | Food | <ol style="list-style-type: none"> <li>1. Enumeration of <i>Clostridium perfringens</i></li> <li>2. Detection and Enumeration of Coliforms (MPN)</li> <li>3. Enumeration of Coliforms</li> <li>4. Detection and Enumeration of Presumptive <i>E. coli</i> (MPN)</li> <li>5. Enumeration of Micro-organisms Colony Count @ 30°C</li> <li>6. Enumeration of Coagulase positive staphylococci (BP medium)</li> <li>7. Enumeration of Coagulase positive staphylococci (MPN)</li> <li>8. Enumeration of Presumptive <i>Bacillus cereus</i> (count)</li> <li>9. Detection and Enumeration of <i>L. monocytogenes</i></li> <li>10. Detection and Enumeration of <i>L. monocytogenes</i></li> <li>11. Enumeration of <i>Pseudomonas</i> spp.</li> <li>12. 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</li> <li>13. 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</li> </ol> | <p>ISO 7937:2004</p> <p>ISO 4831:2006 (E)</p> <p>ISO 4832:2006 (E)</p> <p>ISO 7251:2005 / Amd 1: 2023</p> <p>ISO 4833-1:2013/Amd1:2022</p> <p>ISO 6888-1:2021</p> <p>ISO 6888-3 :2003 (E)</p> <p>ISO 7932:2004/Amd 1:2020</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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|    |                                | 14. Yeast & Moulds count:<br>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          |
|    |                                | 15. 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          |
|    |                                | 16. 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          |
|    |                                | 17. Yeast & Moulds count:<br>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          |
|    |                                | 18. Horizontal method for the enumeration of mesophilic Lactic Acid Bacteria – Colony count at 30°C   | ISO 15214:1998            |
| C. | Food and animal feeding stuffs | 1. Horizontal method for the detection of <i>E.coli</i> O157  | ISO 16654:2001/Amd 1:2017 |
|    |                                | 2. Horizontal method for detection and enumeration of <i>Campylobacter</i> spp. – Part 1: Detection method  | ISO 10272-1:2006          |

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|  |  | <p>3. 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></p> <p>4. Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony count method</p> <p>5. Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 1: Detection and Enumeration by MPN technique with pre-enrichment</p> <p>6. Horizontal method for the determination of low numbers of presumptive <i>Bacillus cereus</i> – MPN technique and detection method</p> <p>7. Horizontal method for the enumeration of <math>\beta</math>-glucuronidase-positive <i>Escherichia coli</i>. – Part 2: Colony Count technique at 44°C using 5-bromo-4-chloro-3 indolyl <math>\beta</math>-D-glucuronide</p> <p>8. Detection of <i>Salmonella</i> spp.</p> | <p>ISO 21872-1:2017/Amd 1:2023</p> <p>ISO 21528-2:2004</p> <p>ISO 21528-1:2004</p> <p>ISO 21871:2006</p> <p>ISO 16649-2:2001</p> <p>ISO 6579-1 :2017/Amd 1:2020</p> |
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Issued by the Mauritius Accreditation Service (MAURITAS)

Date: 14 May 2026

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 Director of MAURITAS