



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

INTEGRAL LABORATORIES (PTY) LTD

Co. Reg. No.: 2006/02128/07

Facility Accreditation Number: T0417

is a South African National Accreditation System accredited facility
provided that all conditions and requirements are complied with

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

CHEMICAL AND MICROBIOLOGICAL ANALYSIS

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

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

While this certificate remains valid, the Accredited Facility named above is authorised to
use the relevant accreditation symbol to issue facility reports and/or certificates

Mr F Osman

Acting Chief Executive Officer

Effective Date: 12 February 2025
Certificate Expires: 11 February 2030



ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0417****Permanent Address of Laboratory:**

Integral Laboratories (Pty) Ltd
1 Zandwyk Park
Old Paarl Road
Paarl
7646

Technical Signatories:

Mr N van Kooten (All Methods)
Mr N Africa (All Methods)
Mr R Baron (All Chemistry Methods)
Mr P Titus (All Microbiology Methods)
Mr B Jephtha (M54 method only)
Mr S Salie (All Methods)

Postal Address:

1 Zandwyk Park
Old Paarl Road
Paarl
7646

Nominated Representative:

Mr N van Kooten

Tel: (021) 863-1238

Issue No.: 11

Fax:

Date of Issue: 12 February 2025

E-mail: neilvk@integrallabs.co.za

Expiry Date: 11 February 2030

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMICAL Waters (Potable, Domestic, Raw, Waste, Surface, Effluent and Sea Water)	Determination of Ammonia as N Mg/L	M1 (Spectrophotometric)
	Determination of Chemical Oxygen Demand as O ₂ mg/L	M2 (Spectrophotometric)
	Determination of Chloride as CL mg/L	M3 (Spectrophotometric)
	Determination of Electrical Conductivity	M4 (Electrode)
	Determination of Nitrate as N mg/L	M5 (Spectrophotometric)
	Determination of pH @ 25°C	M6 (Electrode)
	Determination of Total Alkalinity as Ca CO ₃ mg/L	M7 (pH Titration)
	Determination of Total Suspended Solids, Volatile Suspended Solids and Total Dissolved Solids mg/L	M8 (Gravimetric)
	Determination of Turbidity NTU	M12 (Nephthelometer)

Determination of Colour	M14 (Spectrophotometric)
Determination of Major Cartons (Ca ⁺⁺ , K ⁺ , MG ⁺⁺ , Na ⁺) mg/L	M18 (ICP-OES)
Determination of Total Organic Carbon and Dissolved Organic Carbon mg/L	M20 (High Temperature Combustion)
Trihalomethanes (µg/L)	M31 (GC-ECD)
Determination of (NH ₄ ⁺ N, Cl ⁻ , CR ⁶⁺ , F ⁻ , NO ₃ ⁻ N, NO ₂ ⁻ N, PO ₄ ⁻⁻ P, SI, SO ₄ ²⁻ and NO ₂ +NO ₃ as N mg/L by Discrete Photometric Analyser	M44 (Gallery)
Determination of Metals by ICP-MS (Al, As, Ag, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, HG, Mo, Ni, Sb, Se, Sr, V and Zn)	M181 (ICP-MS)

Calculations:

- Total Hardness
- Calcium Hardness
- Magnesium Hardness
- Sodium Absorption Ratio
- Langelier Saturation
Index
- Ryznar Stability Index
- Bicarbonate as CaCO₃
- Carbonate as CaCO₃
- Total Dissolved Solids

MICROBIOLOGY

Waters (Potable, Domestic, Raw, Waste, Surface, Effluent and Sea Water)	Determination of Faecal coliform CFU/ 100mL	M19 (Membrane Filtration)
	Determination of Total coliform and <i>Escherichia coli</i> CFU/ 100mL	M10 (Membrane Filtration)
	Determination of Heterotrophic Plate Count	M13 (Pour Plate)
	Detection of <i>Cryptosporidium</i> and <i>Giardia Oocytes</i> in Water	M54 (rtPCR)

Original Date of Accreditation: 12 February 2010

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM


Accreditation Manager