



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.: 2006/021928/07

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 R Josias

Chief Executive Officer

Effective Date: 12 February 2020
Certificate Expires: 11 February 2025



ANNEXURE A

SCHEDULE OF ACCREDITATION

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

1 Zandwyk Park
Old Paarl Road (R101)
Paarl
7646

Technical Signatories:

Mr N van Kooten (All Methods)
Mr R Baron (M1, M4, M6 & M7 only)
Ms S Mhlauli (M16 & M18 Only)
Ms M Adams (M16, M18 & M44 Only)
Mr S Philander (M2, M20, M16 & M18 Only)
Ms F Clayton (M44, M17 & M12 only)
Ms J Don (M4, M6, M7 & M31 only)
Ms I van Wyk (Full Chemical Scope)
Mr P Robyn (M21, M22, M23, M24, M26 & M27 only)
Mr P Titus (Full Microbiological Scope)

Postal Address:

P O Box 394
Stellenbosch
7599

Nominated Representative:

Mr N van Kooten

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Issue No.: 08

Date of Issue: 12 February 2020

Expiry Date: 11 February 2025

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 mg/L	M8 (Gravimetric)
	Determination of Turbidity NTU	M12 (Nephthelometer)
	Determination of Colour	M14 (Spectrophotometric)

Determination of Metals by ICP (Al, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Sr, Zn) M16 (ICP-OES)

Determination of Major Anions (F^- , Cl^- , NO_3^- , SO_4^{2-} , PO_4^{3-}) mg/L M17 (Ion Chromatography)

Determination of Major Cations (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 ($\mu g/L$) M31 (GC - ECD)

Determination of (NH_4^+ -N, Cl^- , CR^{6+} , F^- , NO_3^- -N, NO_2^- -N, PO_4^{3-} -P, Si, SO_4^{2-} - and $NO_2^-+NO_3^-$ as N mg/L by Discrete Photometric Analyser M44 (Gallery)

Wine and other beverages

Determination of Alcohol - Pycnometer % M21 (Pycnometer)

Determination of Sulphur dioxide (free and total) mg/L M22 (Aspiration/titration)

Determination of Volatile Acidity g/L M23 (Distillation/titration)

Determination of pH and Titratable acidity pH units & g/L M24 (Electrometric/titration)

Determination of Reducing sugars – Fehling's method g/L M26 (Titration)

Determination of (Ethanol, Total Acidity, Volatile Acidity, pH) M27 (Fourier Transform Infrared Spectrometer - Winescan)

MICROBIOLOGY

Waters: Potable, Domestic, Raw, Waste, Surface and Effluent

Determination of Faecal coliform CFU/100mL M19 (Membrane Filtration)

Determination of Total coliform and *Escherichia coli* CFU/100mL M10 (Membrane Filtration)

Determination of Heterotrophic Plate Count M13 (Pour Plate)

Original Date of Accreditation: 12 February 2010

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM


Accreditation Manager