

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:-

TALBOT LABORATORIES A DIVISION OF TALBOT & TALBOT (PTY) LTD

Co. Reg. No.: 2000/021732/07

PIETERMARITZBURG

Facility Accreditation Number: **T0122**

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 17025:2005

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: 01 August 2016
Certificate Expires: 31 July 2021**

ANNEXURE A
SCHEDULE OF ACCREDITATION

Facility Number: **T0122**

Permanent Address of Laboratory:

Talbot Laboratories
 A Division of Talbot & Talbot (Pty) Ltd
 20 Pentrich Road
 Pietermaritzburg
 3200

Technical Signatories:

Ms V Talbot (Only Chemistry Methods)
 Dr AA Khan (Only Chemistry Methods)
 Ms S Dlamini (Methods 1A, 2, 3, 83, All AAS)
 Ms J Winchester (Only Microbiology Methods)
 Ms T Kubheka (Only Microbiology Methods)

Postal Address:

PO Box 3391
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 3200

Nominated Representative:

Ms J Winchester

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Issue No.: 14

Date of Issue: 12 July 2016

Expiry Date: 31 July 2021

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMICAL		
Raw, Potable and Waste Water	Determination of pH at 25°C - Electrometric	1 (Based on SANS 5011)
	Determination of pH at 25°C - Electrometric	1A (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 20 th Edition)
	Determination of Electrical Conductivity at 25°C - Conductimetric	2 (Based on SANS 7888)
	Determination of Suspended Solids at 105°C - Gravimetric	5 (Based on SANS 6049)
	Determination Total Solids at 105°C - Gravimetric	59 (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 20 th Edition)
	Determination of Total Dissolved Solids at 180°C - Gravimetric	41 (Based on SANS 5213)
	Determination of Turbidity - of Nephelometric	4 (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF 20 th Edition)
	Determination of Chemical Oxygen Demand - Titrimetric (Dichromate Reflux)	3 (Based on Government Gazette 2512)
	Determination of Oxygen Absorbed -	39 (Based on SANS 5220)

Titrimetric

Determination of Chloride - Titrimetric (Argentometric)	16 (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF 20 th Edition)
Determination of Alkalinity- Titrimetric	10 (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF 20 th Edition)
Determination of Sodium by AAS	6A (Based on Standard Methods for
Determination of Potassium by AAS	7A (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF 20 th Edition)
Determination of Calcium by AAS	8A (Based on SANS 6265)
Determination of Magnesium by AAS	9A (Based on SANS 6265)
Determination of Copper by AAS	24A (Based on SANS 5203)
Determination of Zinc by AAS	23A (Based on SANS 5214)
Determination of Iron by AAS	20A (Based on SANS 5207)
Determination of Manganese by AAS	19A (Based on SANS 5209)
Determination of Nickel by AAS	55A (Based on SANS 6171)
Determination of Lead by AAS	26A (Based on SANS 5208)
Determination of Fluoride- Colourimetric (SPADNS)	18A (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 20 th Edition)
Determination of Ammonia as N by FIA	64 (Quickchem method 10-107-06-2-J)
Determination of Nitrate/Nitrite as N by FIA	65 (Quickchem method 10-107-04-1-A)
Determination of Orthophosphate as P by FIA	66 (Quickchem method 10-115-01-1-O and 10-115-01-1-A)
Determination of Sulphate as SO ₄ by FIA	67 (Quickchem method 10-116-10-1-A)

Determination of Hexavalent Chromium as Cr by FIA	68 (Quickchem method 10-124-13-1-A)
Determination of Li, Be, B, Al, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Sr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U, Hg by ICP-MS	83 (Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 20 th Edition and EPA 200.8

MICROBIOLOGY

Raw, Potable and Waste Water	Enumeration of Total Coliforms, Faecal Coliforms and <i>Escherichia coli</i>	31 (Membrane Filtration – Based on SANS 5221:2007)
	Standard Plate Count	31 (Pour Plate – Based on SANS 5221:2007)

Original Date of Accreditation: 01 August 2001

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Acting Accreditation Manager