



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:-

MICROCHEM LABORATORY SERVICES (PTY) LTD

Co. Reg. No.: 2007/010539/07

Facility Accreditation Number: T0393

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

A handwritten signature in black ink, appearing to read 'T Baleni', is written over a horizontal line.

Mr T Baleni

Acting Chief Executive Officer

Effective Date: 09 April 2023

Certificate Expires: 10 April 2028



ANNEXURE A
SCHEDULE OF ACCREDITATION

Facility Number: **T0393**

Permanent Address of Laboratory:

Microchem Laboratory Services (Pty) Ltd
5 Dairy Street
Stikland Industria
Cape Town
7580

Technical Signatories:

Ms I Liedemann (All Microbiology Methods)
Mr JG Esterhuizen (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 27, 29, 33, 36, 41, 53, 54, 45)
Mr S Moses (Microbiology: All Methods)
Mr K Stungu (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 27, 29, 33, 36, 52, 53, 54, 73, 45, 55, 65, 66, 67, 72, 79, 56, 83, 84)
Mr R van Kerpel (Pesticides: S.O.P.C 57,63,64, 80, 81, 82)
Mr W May (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 29, 33, 36, 52, 53, 54, 73, 45, 55, 65, 67, 72, 79, 56, 27, 66, 83, 84)
Mr R Andrews (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 27, 29, 33, 36, 52, 53, 54, 73, 45, 55, 65, 66, 67, 72, 79, 56, 79, 83, 84)
Mr N Moydien (Microbiology: All Methods)
Ms K Ipeleng (Microbiology : All Methods)
Mr A Reynard (Pesticides: S.O.P.C 57, 63, 64, 80, 81, 82)
Mr A Mhlola (SOPC 57, 64, 63, 80, 81 & 82)
Ms A Stemmers (Microbiology: All Methods)
Mr Z Abrahams (SOP 45, 83)
Ms R Rawoot (SOP 45, 83)
Ms G Jansen (SOP 55, 66, 67, 72, 84, 65)

Postal Address:

P O Box 164
Soneike
7583

Nominated Representative:

Mr L Louw

Tel: (021) 465-6996

Fax: (021) 465-6983

E-mail: luaan.louw@microchem.co.za

Issue No.: 33

Date of Issue: 09 April 2023

Expiry Date: 10 April 2028

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMISTRY		
Meat and meat products, Poultry and Poultry products, Fish and Fish products, RTE/Multi-component foods, Dairy products, Produce (fruit and vegetable products), Beverages, Cereal, Nuts and nut products, edible fats and oils,	Determination of % Moisture	S.O.P.C No.1: AOAC 950.46 Method: Oven Drying

Vitamins, Sugar and sugar products, spices

	Determination of % Ash	S.O.P.C No.2: AOAC 923.0 Method: Ashing by Furnace
	Determination of % Salt as Sodium Chloride	S.O.P.C No.14: AOAC 971.27& Metrohm Application Method: Potentiometric
	Determination of % Acidity	S.O.P.C No.19: AOAC 942.15 Method: Titration
	Determination of Total Dietary Fibre	S.O.P.C No.20: AOAC 991.43 Method: Enzyme gravimetric analysis
	The Determination of Total Fat; Saturated Fat; Mono-unsaturated Fat; Poly un-saturated Fat; Trans Fat	S.O.P.C No.25: AOAC 996.06 Method: GC
	The Determination of Cholesterol	S.O.P.C No.26: AOAC 996.06 Method: GC
	Determination of Vitamin A & Vitamin E	S.O.P.C No.29: AACC Method: 86-06 Method: HPLC
	Determination of Vitamin C	S.O.P.C No.33: AOAC 984.26 Method: HPLC
	Determination of % Nitrogen & % Protein	S.O.P.C No.36 Method: Dumas combustion method, AOAC 958.06
	Determination of Total Sugar by GC; % Fructose, % Glucose, % Sucrose, % Maltose; % Lactose; % Trehalose; % Galactose	S.O.P.C No.52 Method: GC, AOAC 982.14
	Determination of % Starch	S.O.P.C No.53: AOAC 996.11 Method: HPLC
	Calculation of Glycaemic Carbohydrates	S.O.P.C No.54
	Determination of Total Sugar & Alcohols in Foods	S.O.P.C No. 73: Method: Gas Chromatography
	Determination of Vitamin B1, Vitamin B2 Vitamin B3 and Vitamin B6	S.O.P.C No.56 Method: HPLC, AOAC 957.17
Meat and meat products, Poultry and Poultry products, Fish and Fish products, RTE/Multi-component foods, Dairy products, Produce (fruit and vegetable products), Beverages, Cereal, Nuts and nut products, edible fats and oils, Vitamins, Sugar and sugar products, spices, water	Determination of Elemental Content Na, Mg, K, P, Zn, Ca, Cu, Fe, As, Cd, Pb	S.O.P.C No.45 Method: ICP OES; AOAC 984.27
	Determination of Elemental Content by ICP-MS, Na, Mg, K, P, Zn, Ca, Cu, Fe, As, Cd, Pb, Cu, As, Cd, Hg, Pb, Na, Mg, P, K, Ca, Mn, Fe, Zn, B, Al, V, Cr, Co, Ni, Se, Mo, Sn, Sb, Ba, U	S.O.P.C 83 Determination of Elemental Content by ICP-MS: AOAC 2015.01

Water (Potable, Domestic and Industrial Purpose)

Determination of Ammonium, Chloride, Cyanide, Fluoride, Nitrate, Nitrite, Phenol, Monochloramine, Free Chlorine, Sulphate and Total Organic Carbon

S.O.P.C No.55 Method: Spectrophotometer

Determination of Ammonium, Chloride, Cyanide, Fluoride, Nitrate, Nitrite, Phenol, Monochloramine, Free Chlorine, Sulphate

S.O.P.C 84 Determination of Selected Ions in Water by Spectrophotometry using Easychem Discreet Analyzer: SANS 241:201

Determination of Conductivity and Total Dissolved Solids

S.O.P.C No.65 Method: Conductivity meter

Determination of pH

S.O.P.C No. 66 Method: pH meter

Determination of Turbidity

S.O.P.C No.67 Method: Turbidity meter

Determination of Colour

S.O.P.C No.72 Method: Spectrophotometer

Residues in Foods and Agricultural Products: Pome Fruit, Stone Fruit, Citrus Fruit, Grapes and Small Berries, Tropical and Subtropical Fruit,-Edible and Inedible Peel, Water Tea and High Oil Fruit and Grain

Quantitative Determination of Pesticide Residues by GC-MS/MS and LC-MS/MS

S.O.P.C No. 57: EN 15662 QuEACHERS Method: GC-MSMS and LC-MSMS

Quantitative Determination of CS2 by Headspace GC-MS

S.O.P No 63 Method: GC-MS

Quantitative Determination of Ethephon Residues in Fresh Fruit by LC-MS/MS

S.O.P.C No.64: Quppe Method: LC-MSMS

Quantitative determination of Glyphosate and Aminomethylphosphonic Acid residues in Fresh Fruit by LC-MSMS

S.O.P.C No. 80 Glyphosate and Aminomethylphosphonic Acid by LC-MSMS

Quantitative determination of Fosetyl-Aluminium and Phosphonic acid residues in Fresh Fruit by LCMSMS

S.O.P.C No. 81 Fosetyl Aluminium and Phosphonic acid by LC-MSMS

Quantitative determination of Chlorates and Perchlorates residues in Fresh Fruit by-LC-MSMS

S.O.P.C No. 82 Chlorates and Perchlorates residues by LCMSMS

MICROBIOLOGY

Meat and meat products, Poultry and Poultry products, Fish and Fish products, RTE/Multi-component foods, Dairy products, Produce (fruit and vegetable products), Beverages, Low water activity products, Environmental samples, Water

Detection of *Salmonella* spp

S.O.P.M 9F: AFNOR BRD 07/11-12/05

Determination of Virulence Genes in Shiga Toxin Producing *Escherichia coli* (STEC) using PCR

S.O.P.M 33: ISO /TS 13136:2012

Detection of *Listeria* spp.

S.O.P.M 7H: AFNOR BRD 07/04-09/98

	Detection of <i>Listeria</i> spp.	S.O.P.M 7I: AFNOR BRD 07/16-01/09
	Detection of <i>Listeria monocytogenes</i> organisms	S.O.P.M 7B: AFNOR BRD 07/04-09/98
	Enumeration of Yeast and Mould	S.O.P.M 5A ISO 21527-7
	Enumeration of Yeasts and Moulds, Colony Technique at 25°C	S.O.P.M 5B: AOAC 6.1:1997
	Enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species)	S.O.P.M 4F: ISO 6888-2
	Detection of <i>Shigella</i> spp.	S.O.P.M 34 ISO 21567:2004
	Enumeration of <i>Enterobacteriaceae</i> without resuscitation, colony count technique at 37°C	S.O.P.M 6A: ISO 21528
	Quantitative Enumeration of viable <i>Listeria monocytogenes</i> organisms	S.O.P.M 7C: AFNOR BRD 07/05-09/01
	Enumeration of presumptive <i>Bacillus cereus</i> , colony count	S.O.P.M 12B Oxoid
	Enumeration of <i>Clostridium perfringens</i> , colony count technique at 35°C	S.O.P.M 16 Oxoid
	Enumeration of Mesophilic Lactic Acid Bacteria	S.O.P.M 10A: ISO 15214:1998€
	Enumeration of <i>Pseudomonas</i> species, colony count technique at 25°C	S.O.P.M 11A: ISO 13720
	Determination of <i>Vibrio</i> species, <i>Vibrio parahaemolyticus</i> and <i>Vibrio cholera</i>	S.O.P.M 18 ISO 21872-1:2017
	Detection of <i>Salmonella</i> spp. Using VIDAS	S.O.P.M 9G: AFNOR BIO 12/32-10/11
	Detection of <i>Listeria monocytogenes</i> using VIDAS	S.O.P.M 7J AFNOR BIO 12/27-02/10
Meat and meat products, Poultry and Poultry products, Fish and Fish products, RTE/Multi-component foods, Dairy products, Produce (fruit and vegetable products), Beverages, Low water activity products, Environmental samples	Enumeration of Total Viable Mesophilic Aerobic Organisms in Foods, Colony Count Technique at 35°C	S.O.P.M 1C: MFHPB-18
	Enumeration of Coliforms, Colony Count Technique at 37°C	S.O.P.M 2C: ISO 4832
	Enumeration of viable <i>Escherichia coli</i>	S.O.P.M 3F: ISO 16649-2
Water (Drinking , Raw)	The Determination of the Heterotrophic Total Bacteria Bacterial Count in at 35°C	S.O.P.M 1F: APHA 9215
	Enumeration of Coliforms in, Membrane Filtration Method at 37° C, without further confirmation	S.O.P.M 2F: AFNOR BRD 07/20-03/11
	Enumeration of <i>Escherichia coli</i> , Membrane Filtration Method at 37° C, without further confirmation	S.O.P.M 3H: AFNOR BRD 07/20-03/11

Enumeration of Thermotolerant
(faecal) Coliforms, Membrane
Filtration method: at 44°C
Without further confirmation

S.O.P.M 28: AFNOR BRD 07/20-
03/11

Original Date of Accreditation: 11 April 2008

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



Accreditation Manager