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

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Mr F Osman
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, Flexible scope)

Mr K Stungu (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 27, 29, 33, 36, 52, 53, 73, 55, 65, 66, 67, 72, 79, 56 , 84, 92, 93, 94, 97, 98, 99 100, 101, Flexible Scope)

Mr R van Kerpel (Pesticides: Flexible Scope)

Mr W May (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 29, 33, 36, 52, 53, 54, 73, 55, 65, 67, 72, 79, 56, 27, 66, 84, Flexible Scope)

Mr R Andrews (Chemistry: S.O.P.C 1, 2, 14, 19, 20, 25, 26, 27, 29, 33, 36, 52, 53, 54, 73, 55, 65, 66, 67, 72, 79, 56, 79, 84 , 92, 93, 94, 97, 98, 99, 100, 101, Flexible Scope)

Mr N Moydien (All Microbiology Methods)

Ms K Ipeleng (All Microbiology Methods)

Mr A Reynard (Pesticides: Flexible Scope only)

Mr Z Abrahams (S.O.P.C 92, 101, Flexible Scope-ICP only)

Ms R Rawoot (S.O.P.C 95, 92, 93, 94, 96, 97, 98,99, 100, 101 Flexible Scope ICP only)

Mr A Cook (S.O.P.C 90, 91)

Ms Z Booi (S.O.P.C 92, 93, 94, 96, 97, 98, 99, 100, 101)

Ms L Lufuta (S.O.P.C 96)

Ms S Els (Pestcides: Flexible Scope)

Mr S Newborn (Pesticides: Flexible Scope)

Mr R Mabindisa (Pesticides: Flexible Scope)

Ms S Nntwanambi (SOP 97.98, 99, 100)

Postal Address:

P O Box 164
Soneike
7583

Nominated Representative:

Mr L Louw

Tel: (021) 465-6996
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E-mail: luaan.louw@microchem.co.za

Issue No.: 37
Date of Issue: 15 November 2024
Expiry Date: 10 April 2028

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used

CHEMICAL

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, pet and animal feeds	Determination of % Moisture	S.O.P.C No.1: AOAC 950.46 Method: Oven Drying
	Determination of % Ash	S.O.P.C No.2: AOAC 923.03 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
	Determination of Sulfites (SO2)	S.O.P.C No 92 AOAC 990.28
	Determination of Crude Fat	S.O.P.C No 93 AOAC 2003.05
	Determination of Crude Fibre	S.O.P.C No 94 AOCS Ba 6a-05
	Determination of % Acidity by OMNIS	S.O.P.C No 97 AOAC 942.15 (2005)
	Determination of % Free Fatty Acids by OMNIS	S.O.P.C No 98 EN ISO 660

	Determination of Peroxide Value by OMNIS	S.O.P.C No 99 AOAC 965.33
	Determination of % Salt as Sodium Chloride by OMNIS	S.O.P.C No 100 AOAC 971.27
Fish and Fish Products	Determination of Histamine	S.O.P.C No 96 AOAC 977.13
	Determination of TVBN	S.O.P.C No 101 Conway and Byrne method (1933)
Water (Potable, Domestic and Industrial Purpose)	Determination of Ammonia, Chloride, Cyanide, Fluoride, Nitrate, Nitrite, Phenol, Monochloramine, Free Chlorine, Sulphate and Total Organic Carbon	S.O.P.C No.55 Method: Spectrophotometer
	Determination of Ammonia, 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
	FLEXIBLE SCOPE:	
Meat and meat products, Poultry and Poultry products, Fish and Fish products/RTE Multi-component foods, Dairy products, Produce (fruit and vegetables products), Beverages, Cereal, Nuts and nuts products, edible fats and oils, Vitamins, Sugar and sugar products, spices, water	ICP-OES Technique ICP-MS Technique	Publish, International and in house method
Residues of pesticides, mycotoxins/biotoxins and related organic contaminants/adulteration in agriculture materials, processed fruit products, dairy, animal feed and pet food, water and other foodstuff	GC-MS/MS Techniques LC-MS/MS Techniques HS-GC-MS (Headspace) Technique	Publish, International and in house method

[Refer to Flexible Scope Register (FS-001) for more details on materials/products and methods]

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: AOAC 121203
	Detection of *Salmonella* spp. (375g)	S.O.P.M 9F: AFNOR BDR 07/11-12/05
	Detection of *Listeria* spp.	S.O.P.M 7H: AFNOR BRD 07/04-09/98
	Detection of *Listeria* spp.	S.O.P.M 7I: AFNOR BRD 07/16-01/09
	Detection of *Listeria monocytogenes* organisms	S.O.P.M 7B: AFNOR BRD 07/04-09/98
	Enumeration of Yeast and Mould	S.O.P.M 5A ISO 21527-1
	Enumeration of Yeasts and Moulds, Colony Technique at 25°C	S.O.P.M 5B: AOAC 6.1:1997
	Enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species)	S.O.P.M 4F: ISO 6888-2
	Detection of *Shigella* spp.	S.O.P.M 34 ISO 21567:2004
	Enumeration of *Enterobacteriaceae* without resuscitation, colony count technique at 37°C	S.O.P.M 6A: ISO 21528
	Quantitative Enumeration of viable *Listeria monocytogenes* organisms	S.O.P.M 7C: AFNOR BRD 07/05-09/01
	Enumeration of presumptive *Bacillus cereus*, colony count	S.O.P.M 12B Oxoid
	Enumeration of *Clostridium perfringens*, 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 *Pseudomonas* species. colony count technique at 25°C	S.O.P.M 11A: ISO 13720
	Determination of *Vibrio* species, Vibrio *parahaemolyticus* and *Vibrio cholera*	S.O.P.M 18 ISO 21872-1:2017
	Detection of *Salmonella* spp. Using VIDAS	S.O.P.M 9G: AFNOR BIO 12/32-10/11
	Detection of *Listeria monocytogenes* using VIDAS	S.O.P.M 7J AFNOR BIO 12/27-02/10

	Enumeration of *Clostridium perfringens*	S.O.P.M 16B SANS 7937
	Detection of *Escherichia coli* 0157 using Solus ELISA	S.O.P.M 8C:AFNOR SOL 37/03-10/15
	Bacterial Identification using Biolog	S.O.P.M 35A: Biolog
	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 *Escherichia coli*	S.O.P.M 3F:ISO 16649-2
Meat and meat products, Poultry and Poultry products, Fish and Fish products, RTE/Multi-component food, Dairy products, Produce (Fruit and vegetable products), Beverages, Low water activity products	Enumeration of *Campylobacter*	S.O.P.M 20E: ISO 10272-2-2006
Processed fruit and vegetables, beverages and environmental samples (water)	Thermotolerant Acidophilic Bacteria (TAB) Count	S.O.P.M 22A: Standard IFU Method 12:2019
Low water activity, spices and seafood (Raw and RTC fish and seafoods)	*Escherichia coli* MPN Count in Foodstuffs	S.O.P.M. 3E: SANS 16649-3:2017
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 sample	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 *Escherichia coli*	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 *Escherichia coli*, 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
Enumeration of Coliform using Colilert 18 (MPN)	S.O.P.M 2G SANS: 9308
Enumeration of *Escherichia coli* using Colilert 18 (MPN)	S.O.P.M 3G: SANS 9308
Enumeration of Faecal coliforms using Colilert-18 (MPN)	S.O.P.M 28B: EPA Colilert -18 Standard
Enumeration of Total Plate Count using PCA	S.O.P.M 1A: SANS 5221

Original Date of Accreditation: 11 April 2008

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager