

# **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:-*

## **SWIFT SILLIKER (PTY) LTD**

**Co. Reg. No.: 2000/025067/07**

**MIDRAND**

Facility Accreditation Number: **T0350**

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 R Josias**  
**Chief Executive Officer**

**Effective Date: 10 March 2020**  
**Certificate Expires: 31 July 2021**

ANNEXURE A  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0350**

**Permanent Address of Laboratory:**

Swift Silliker (Pty) Ltd  
 Stellenryk Building, Constantia Square Office Park  
 526 16th Road  
 Midrand  
 1685

**Technical Signatories:**

Mr LN Mmushi (All Microbiology Methods)  
 Mr RC Neluvhalani (All Microbiology Methods Excl. SWM.MIC 015 & 017)  
 Ms SP Siyaya (All Microbiology Methods)  
 Ms LP NemaKanga (All Microbiology Methods)  
 Mrs L Qomoyi (All Microbiology Methods)  
 Ms S Bila (All Microbiology Methods Excl. SWM.MIC.006, 015 & 017)  
 Ms K Mhlongo (All Microbiology Methods Excl. SWM.MIC.006, 015 & 017)  
 Mr MKL Ndlovu (All Chemistry Methods Excl. SWM-MLK-001, 002, 006 & 010)  
 Ms O Nyamunda (All Chemistry Methods Excl. (SWM-MLK-001, 002, 006 & 010)  
 Ms AA Nedohe (All Chemistry Methods Excl. SWM-MLK-001, 002, 006 & 010)  
 Ms M Malatji (SWM-MLK-001, 002, 006 & 010)  
 Ms R Jakarasi (All Chemistry Methods Excl. SWM-MLK-001, 002, 006 & 010)  
 Mr T Maposa (All Chemistry Methods Excl. SWM-MLK-001, 002 & 006)  
 Ms C Murimira (All Chemistry Methods Excl. SWM-MLK-001, 002, 006 & 010)  
 Ms A Pretorius (SWM-MLK-001, 002, 006 & 010)

**Postal Address:**

Postnet Suite #64, Private Bag X121  
 Halfway House  
 Midrand  
 1685

**Nominated Representative:**

Ms D Williams

**Tel:** (011) 805-4310

**Fax:** (011) 805-7930

**E-mail:** deidre.williams@mxns.com

**Issue No.:** 25

**Date of Issue:** 30 June 2020

**Expiry Date:** 31 July 2021

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
<b>MICROBIOLOGY</b>		
Dairy Products, Meat & Meat products, Poultry, Egg & Egg products, Fish and Seafood products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood	Enumeration of <i>Lactobacillus</i>	SWJM 08 (Ref. ISO 15214)

and Animal Feed, Multi-Component Food or Meal Components, Beverage and Environmental Samples (Swabs and Water)

Dairy Products, Meat & Meat products, Poultry, Egg & Egg products, Fish and Seafood products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components, Beverage and Environmental Samples (Swabs and Water)	Enumeration of Lactic acid bacteria	SWJM 10 (Ref. ISO 15214)
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Dairy Products, Meat & Meat products, Poultry, Egg & Egg products, Fish and Seafood products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components, Beverages and Environmental Samples (Swabs and Water)	Detection of <i>Listeria</i> species. (incl. <i>Listeria monocytogenes</i> )	SWJM 23 (Ref. ISO 11290-1)
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Pharmaceutical, Cosmetic and Personal Care products	Antimicrobial Preservative Efficacy testing	SWJM 25 (Ref. USP)
	Disinfectant Efficacy testing of QAC based disinfectants / sanitizers	SWJM 30 (Ref. SANS 636)

Dairy Products, Meat & Meat products, Poultry, Egg & Egg products, Fish and Seafood products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components, Beverages, Pharmaceutical, Cosmetic and Personal Care products and Environmental Samples (Swabs and Water)	Enumeration of <i>Bacillus cereus</i>	SWJM 32
	Enumeration of Anaerobic Mesophilic Bacteria (Anaerobic TMA)	SWJM 59
	Enumeration of Anaerobic Sulfite reducing bacteria (including <i>Clostridium</i> spp.)	SWJM 60 (Ref. ISO 15213)
	Enumeration of <i>Listeria monocytogenes</i>	SWJM 64 (ISO 11290-2)

Dairy Products, Meat & Meat products, Poultry, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Beverages, Pharmaceutical, Cosmetic and Personal Care products and Environmental Samples (Swabs and Water)	Enumeration of Thermophilic & Aciduric Flat Sour Spoilers	SWJM 34
Dairy Products, Meat & Meat products, Poultry, Egg & Egg products, Fish and Seafood products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components, Edible Fats and Oils, Beverages, Pharmaceutical, Cosmetic and Personal Care products and Environmental Samples (Swabs and Water)	Enumeration of Total Microbial Activity (TMA)	SWJM 35 (Ref. ISO 4833/SANS 5221 /SANS 5763)
	Enumeration of Coliforms	SWJM 48 (Ref. ISO 4832/SANS 5221)
	Enumeration of <i>Enterobacteriaceae</i>	SWJM 49 (Ref. ISO 21528-2)
	Enumeration of Yeasts & Moulds	SWJM 50 (Ref. ISO 7954)
	Enumeration of coagulase positive <i>Staphylococcus aureus</i>	SWJM 53 (Ref. ISO 6888-1)
	Enumeration of <i>Clostridium perfringens</i>	SWJM 54 (Ref. ISO 7937)
	Detection of <i>Salmonella</i> species (Rapid Culture method)	SWJM 58 (AFNOR UNI 03/06-12/07)
Environmental Samples (Water)	Detection of <i>Salmonella</i> using ISO 6579	SWJM 67 (ISO 6579)
	Enumeration of <i>Escherichia coli</i> in water	SWJM 45 (SANS 5221)
Dairy Products, Meat & Meat products, Poultry, Fish and Seafood products, Fresh produce and Fruits, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Multi-Component Food or Meal Components, Pharmaceutical, Cosmetic and Personal Care products and Environmental Samples (Swabs and Water)	Enumeration of <i>Pseudomonas</i> spp.	SWJM 46 (Ref. ISO 13720 / ISO 16266)
Microbiological Cultures	Microbial Identifications API Identification systems	SWJM 47

<p>Dairy Products, Poultry, Fish and Seafood products, Multi-Component Food or Meal Components and Environmental Samples (Swabs and Water)</p>	<p>Detection of pathogenic <i>Vibrio</i> spp. (<i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i>)</p>	<p>SWJM 55</p>
<p>Dairy Products, Meat &amp; Meat products, Poultry, Fish and Seafood products, Fresh produce and Fruits, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Beverages, Pharmaceutical, Cosmetic and Personal Care products and Environmental Samples (Water)</p>	<p>Enumeration of Faecal (Thermotolerant) Coliforms</p>	<p>SWJM 56 (Ref. SANS 5221)</p>
<p>Dairy Products, Meat &amp; Meat products, Fresh produce and Fruits, Processed fruits and Vegetables, Multi-Component Food or Meal Components and Environmental Samples (Swabs and Water)</p>	<p>Enumeration of intestinal <i>Enterococci</i> (<i>Faecal Streptococcus</i>)</p>	<p>SWJM 57 (ISO 7899-2 - Water)</p>
<p>Dairy Products, Meat &amp; Meat products, Poultry, Egg &amp; Egg products, Fish and Seafood products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components, Beverages, Pharmaceutical, Cosmetic and Personal Care products and Environmental Samples (Swabs)</p>	<p>Enumeration of Glucuronidase positive <i>Escherichia coli</i></p>	<p>SWJM 62 (Ref. ISO 16649-2)</p>
<p>Dairy Products, Meat &amp; Meat products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Multi-Component Food or Meal Components and Environmental Samples (Swabs and Water)</p>	<p>Detection of Viable <i>Escherichia coli</i> 0157</p>	<p>SWJM 63</p>
<p>Dairy Products, Meat &amp; Meat products, Poultry, Egg &amp; Egg products, Fish and Seafood products, Fresh produce and</p>	<p>Detection of <i>Salmonella</i> using VIDAS Easy SLM Protocol</p>	<p>SWM.MIC.001 (AFNOR BIO 12/16-09/05)</p>

Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components and Environmental Samples (Swabs)

Dairy Products, Meat & Meat products, Poultry, Egg & Egg products, Fish and Seafood products, Fresh produce and Fruits, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products, Petfood and Animal Feed, Multi-Component Food or Meal Components, Edible Fats and Oils and Environmental Samples (Swabs)

Detection of *Listeria* species & *Listeria monocytogenes* using VIDAS LDUO Protocol

SWM.MIC.002 (AFNOR BIO 12/18-03/06)

Detection of *Listeria* species and *Listeria monocytogenes* (using Rapid L.mono agar)

SWM.MIC.005 (NF BRD 07/04-09/98)

Dairy Products, Meat & Meat products, and Poultry

Detection of *Campylobacter* using VIDAS CAM Protocol

SWM.MIC.003 (BIO 12/29-05/10)

Aromatic plants and spices, Flour - 375 grams

Detection of *Salmonella* using VIDAS SLM

SWM.MIC.004 (MC 0743)

Environmental Samples (Potable, Industrial, Waste and Natural water)

Detection and enumeration of *Legionella* in water

SWM.MIC.006 (Ref. ISO 11731)

Dairy Products, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery and Confectionery products and Nutritional Foods

*Enterobacteriaceae* using Most Probable Number

SWM.MIC.007 (ISO 21528-1)

Dairy Products, Meat & Meat products, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables and Chocolate, Bakery and Confectionery products

Detection of *Salmonella* using KIC II method

SWM.MIC.008

Retort pouches

Commercial Sterility

SWM.MIC.011 (SANS 6268)

Pet Food and related raw materials, Swabs	Detection of <i>Salmonella</i> using Automated PCR BAX Q7	SWM.MIC.012
Disinfectants, Antiseptics, Cleaning agents and consumer products including pharmaceuticals	Evaluation of Bactericidal activity of chemical disinfectants and antiseptics	SWM.MIC.015 (SANS 51276)
	Evaluation of Fungicidal & Yeasticidal activity of chemical disinfectants and antiseptics	SWM.MIC.017 (SANS 51650)
Dairy Products, Meat & Meat products, Fresh produce and Fruits, Processed fruits and Vegetables, Dried Cereals, Fruits, Nuts, Seeds and Vegetables, Infant Foods, Multi-Components and Environmental Samples (Swabs)	Detection of <i>Shigella</i>	SWM.MIC.022 (Ref: ISO 21567)
Milk and Milk products and Nut products	Detection of Cronobacter species ( <i>Enterobacter sakazakii</i> )	SWJM 24 (ISO 22964)
Dairy Products, Meat & Meat Products, Poultry, Egg and Egg products, Fish and Seafood products, Fresh Produce and Fruits, Dried fruit, Dried Nuts, Dried seeds and Dried Vegetables, Infant Foods, Chocolate, Bakery and Confectionery Products, Processed Fruits and Vegetables, Petfood and Animal Feed and Environmental Samples (Swabs and Water)	Detection of <i>Listeria</i> Species using Vidas Lis	SWM.MIC.027
	Detection of <i>Listeria monocytogenes</i> using Vidas LM02	SWM.MIC.028

**CHEMISTRY**

Dairy Products	Determination of Moisture and Total Solid content	SWM.CHEM.001 (Ref: NF EN ISO 3727-1, IDF 26A:1993, ISO 13580, ISO 6731, IDF 21, ISO 5534, NF V04-370)
	Non-protein Nitrogen and calculation of Casein	SWM.CHEM.002 (Ref. ISO 8968, NF EN 12135)
	Determination of Total Fat Content in Dairy products	SWM.CHEM,014 (Ref. ISO 7208, ISO 1736, ISO 2450, ISO 1737, ISO 1737, ISO 1211, ISO 3727-2, ISO 8262-3, ISO 1735, IDF 5)
Diary Products, Fruit Juices and Concentrates	Determination of Protein Content by Kjeldahl method	SWM.CHEM.003 (Ref. ISO 8968-2, EN 12135, IDF 20)

<p>Dairy products, Meat &amp; Meat products, Poultry, Egg &amp; Egg products, Fresh &amp; Seafood products, Fresh produce &amp; Fruits, Processed Fruit, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery &amp; Confectionery products, Multi-components, Edible Fats &amp; Oils, Beverages, Nutritional Foods, Canned food products, Sugar &amp; Sugar products, Food Additives and Supplements, Salt &amp; Salted Fish, Vinegar &amp; Spices</p>	<p>Determination of Total Nitrogen content by Dumas method and calculation of the crude protein content</p>	<p>SWM.CHEM.004 (Ref. ISO 14891, ISO 16634-2)</p>
	<p>Determination of Calcium, Sodium, Magnesium, Potassium and Zinc by Atomic Absorption Spectrophotometry</p>	<p>SWM.CHEM.005 (Ref. EN 15505, ISO 8070, EN 1134, EN 13805)</p>
	<p>Determination of pH in various food stuff</p>	<p>SWM.CHEM.006 (Ref. ISO 7238, EN 1132, ISO 2917, AFNOR Guideline FD V04-035)</p>
	<p>Determination of Sugars by HPLC</p>	<p>SWM.CHEM.008 (Ref. IOCCC Analytical method 34, AOAC 980,13 and AOAC 982,14)</p>
	<p>Determination of Total Dietary Fibre</p>	<p>SWM.CHEM.009 (Ref. AOAC 985.29, AOAC 991.43)</p>
	<p>Determination of Moisture and Total Solid Content excluding diary</p>	<p>SWM.CHEM.010 (Ref. NF V04-401, EN 12145, ISO 712)</p>
	<p>Determination of Fatty Acids by GC</p>	<p>SWM.CHEM.011 (Ref. AOAC 996.06, NF V03-030)</p>
	<p>Determination of Total Fat Content excluding diary</p>	<p>SWM.CHEM.025 (Ref. ISO 1443)</p>
	<p>Determination of Ash Content</p>	<p>SWM.CHEM.026 (Ref. AOAC 945.46, AOAC 930.30, AOAC 920.108, ISO 936, ISO 2171, EN 1135, NF V04-404)</p>
	<p>Determination of Titratable Acidity in Foodstuffs</p>	<p>SWM.CHEM.028 (ISO 750:1998, AOAC 942.15, AOAC 935.57, AOAC 920.124, AOAC 950.07, AOAC 945.26, AOAC 947.05)</p>
	<p>Determination of Starch</p>	<p>SWM.CHEM.007 (Ref. AOAC method 996.11)</p>
<p>Dairy products, Meat &amp; Meat products, Poultry, Egg &amp; Egg products, Fresh &amp; Seafood products, Fresh produce &amp; Fruits, Processed Fruit, Nuts, Seeds and Vegetables, Infant Foods, Chocolate, Bakery &amp; Confectionery products, Multi-components, Edible Fats &amp; Oils, Beverages, Nutritional Foods, Canned food</p>	<p>Determination of Cholesterol</p>	<p>SWM.CHEM.024 (Ref. AOAC method 994.10)</p>

products, Sugar & Sugar products,  
Food Additives and Supplements,  
Salt & Salted Fish, Vinegar & Spices

	Total Carbohydrates by difference with Fibre in %	SWP.CHEM.030 (Calculation)
	Energy Value	SWP.CHEM.030 (Calculation)
	Glycaemic Carbohydrates	SWP.CHEM.030 (Calculation)
	Determination of Salt content as NaCl in %	SWP.CHEM.030 (Calculation)
	Determination of Total Solids content %	SWP.CHEM.030 (Calculation)
	Determination of Lean Meat Content %	SWP.CHEM.030 (Calculation)
	Determination of Total Meat Equivalent	SWP.CHEM.030 (Calculation)
	Determination of Water activity of food stuff	SWM.CHEM.027 (ISO 21807.2004)
Dairy products, Egg and Egg products, Edible Fats and Oils, Beverages, Nutritional Foods, & Vinegar	Determination of Density in Food products	SWM.CHEM.029 (AOAC 920.49)
Dairy products, Meat & Meat products, Poultry, Egg & Egg products, Fish & Seafood Products, Infant Foods, Chocolate, Bakery and Confectionery products, Multi-Component Food or Meal Components, Edible Fats and Oils, Beverages, Nutritional Foods, Canned food products, Sugar and Sugar products, Food additives supplements, Salt and Salted Fish & Spices	Determination of Peroxide Value in Foodstuff	SWM.CHEM.030 (ISO 3960:2007)
	Determination of Free Fatty Acids and (oil) acidity in Foodstuff	SWM.CHEM.031 (ISO 660:2009)
Cereal and Cereal Products, Nuts and Nuts Products, Fruit and Fruit Products, Spices	Determination of Aflatoxins (B1, B2, G1 & G2) by HPLC	SWM.CHEM.012 (Ref. AOAC 991.31)
Cereal based Feed Products	Determination of Aflatoxin B1	SWM.CHEM.012 (Ref. AOAC 991.31)
Dairy products & Edible Fats and Oils	Determination of moisture content by Karl Fischer in food	SWM.CHEM.032 (ISO 8534:2012)
Liquid Milk	Determination of Somatic cell count	SWM.MLK.001
	Determination of the Fat, Protein, Total Solids, Lactose and Milk Urea Nitrogen by means of Infrared analysis	SWM.MLK.002

Liquid Milk

Rapid Determination of individual  
Bacteria in Raw Milk by means of  
Flow cytometry

SWM.MLK.006

Determination of Freezing Point  
Depression by Cryoscope method

SWM.MLK.010 (Ref. ISO 5764)

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Original Date of Accreditation: 01 August 2006

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

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**Accreditation Manager**