

ANNEXURE A SCHEDULE OF ACCREDITATION

Facility Number: **T0083**

Permanent Address of Laboratory:

Sugar Milling Research Institute (NPC)
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Technical Signatories:

Mrs Y (Lola) Naidoo (All Methods)
Ms A Naicker (All Chemical Methods)
Mr MG Ngema (All Chemical Methods)
Ms Y Arunachellam (Chemical - White Sugar methods & All Microbiology Methods)
Mr A Ngwane (Chemical - Mixed Juice & Molasses Methods)

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Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMICAL		
Mixed Juice	Determination of Glucose, Fructose and Sucrose	TM300 based on ICUMSA - GS7/4/3 - 22 (Gas Chromatography)
	Determination of conductivity ash	TM066 based on ICUMSA GS 1/3/4/7/8 - 13 (Conductometric)
Molasses	Determination of Brix	TM007 based on SASTA Laboratory Manual for SA Sugar Factories (5th Edition) method 6,1 (Refractometric)
	Determination of Karl Fischer Moisture/ Dry Solids	TM030 based on ICUMSA - GS 4/7/3 - 12,(Coulometric Titration)
	Determination of Pol	TM043 based on SASTA Laboratory Manual (5th Edition) method 6.1 (polarimetry)
	Determination of Conductivity Ash	TM066 based on; ICUMSA - GS1/3/4/7/8-13 (Conductometric)

	Determination of Glucose, Fructose and Sucrose (HPLC)	TM310 based on ICUMSA GS7/4/8-23 (Liquid Chromatography)
White Sugar	Determination of Conductivity Ash	TM013 based on ICUMSA - GS2/3/9-17 (Conductometric)
	Determination of ICUMSA 420 Colour and Turbidity	TM025 based on - GS2/3-10 and ICUMSA GS2/3-iB (Spectrophotometric)
	Determination of Moisture (Oven)	TM037 based on ICUMSA - GS2/1/3/9-15 (Gravimetric)
	Determination of Reducing Sugar	TM051 based on ICUMSA - GS2/3/9-5 (Titrimetric)
	Determination of Sulphite	TM061 based on ICUMSA - GS2/1/7/9-33 (Colorimetric)
Raw Sugar	Determination of ICUMSA 420 Colour	TM023 based on ICUMSA - GS1/3-7 (Spectrophotometric)
	Determination of Pol	TM044 based on ICUMSA GS1/2/3/9-1 (Polarimetry)
	Determination of Particle/ Grain size	TM038 based SASTA Laboratory Manual (5th edition) method 7.15
	Determination of Moisture (Oven)	TM036 based on ICUMSA - GS2/1/3/9 - 15(Gravimetric)
	Determination of Starch (Colorimetric)	TM054 based on SASTA Laboratory Manual for SA Sugar Factories (5th edition) method 7.8 (colorimetric)
MICROBIOLOGY		
White Sugar	Determination of Total Mesophilic Bacterial Count	TM202 based on ICUMSA GS2/3-41 (Membrane filtration)
	Determination of Yeasts and Moulds	TM207 based on ICUMSA GS2/3-47 (Membrane filtration)

Determination of Thermophilic
Acidophylic Bacteria (TAB) and
Guaiacol producing TAB (GP-TAB)

TM205 based on ICUMSA GS2/3-
50

Original Date of Accreditation: 01 November 1998

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



Accreditation Manager

