

UGANDA NATIONAL BUREAU OF STANDARDS

CERTIFICATE OF LABORATORY RECOGNITION

Certificate No: UNBS/LRS/0006

This certificate is valid as per the scope stated in the accompanying schedule of recognition, Annex "A" which is an integral part of the present certificate bearing the above recognition number for

CHEMISTRY AND MICROBIOLOGY TESTING

In accordance with the recognised International Standard ISO/IEC 17025:2017

Being supplied to

ST. MICHAEL FOOD LAB AND CONSULTANCY LIMITED

Plot 68B, Prince Charles Drive, Kololo, Kampala, Uganda.

The recognition demonstrates technical competence and the operation of a laboratory quality management system to perform the tests as described in the Annex. While this certificate remains valid, the recognised laboratory above is authorised to use the relevant UNBS recognition number to issue facility reports and /or certificates.

Recognition Decision Date: 2021-10-18 Date of original issue: 2017-01-11

Certificate Issue No:03

Effective Date: 2021-10-18 Expiry date: 2024-01-10

Certificate Issue date: 2021-10-18

Executive Director
UGANDA NATIONAL BUREAU OF STANDARDS



ANNEX A

SCHEDULE OF RECOGNITION - TESTING LABORATORIES

	cility UN	BS/LRS/0006	S/N	Technical Signatories	Method
St. Micheals Food Lab and Consultancy Ltd P. O. Box 27758 Kampala. Uganda Plot 68B Prince Charles Drive Kololo.			1.	Michelle Kyeyune	Microbiology testing scope
			2.	Okitoi Benon	Chemistry and Microbiology testing
			3.	Atwine Ambrose	scope Chemistry testing scope
			0.	, , , , , , , , , , , , , , , , , , ,	enermenty tooking coops
Material or products tested Type of tests/property measured, Range of Measurement		Stan	dard specifications, Techniqu	ues/Equipment used	
				FIELD - MICROBIOLOGY	
a) packaged drinking wate				9308-1:2014	
b) c)	potable water natural	Detection		19250:2010	
d)	mineral water ices (frozen	r Staphylococcus. aureus	ISO	5888-1:2021	
	water)	Streptococcus faecalis	ISO7	899-2:2000	
		Pseudomonas aeruginosa	ISO 1	16266:2006	
		Total coliforms	ISO 9	9308-1:2014	
		Total Viable Count at 22 and 37 degrees	ISO 6		
a)	Matooke Flour	Total plate Count	ISO 4	1833:2013	
c) Wheat fld) Moringa powder	Maize flour Wheat flour	Escherichia coli	ISO '	16649-2:2001	_
	**	Total Coliforms	ISO	4832:2006	
e)	Cereal beverages	Staphylococcus aureus	ISO 6	5888-1:2021	
f) \	Dairy based beverages	Yeasts and moulds count	ISO 2	21527-1/2:2008	
g)	Non carbonated	Salmonella detection	ISO 6	6579-1:2017	
h) i)	soft drinks UHT milk Flavoured UHT milk	Enterobacteriace a	ISO 2	21528-2:2017	

	D1- ' '		
j)	Pasteurised		
k)	milk Milk powder		
1)	Yoghurt		
m)	Tea (Black		
,	tea and		
	Herbal Tea)		
n)	Roasted nuts		
1	(Ground and		
	Cashew nuts)		
0)	Food grain		
	snacks		
p)	Potato crisps		
			TESTING FIELD - CHEMISTRY
			I LOTING FIELD - CHEWIOTKT
a)	packaged	Total dissolved	ASTM D 5907
F7	drinking water	solids	
p)	potable water natural	(TDS)	
c)	mineral water	Odour	US EAS 153:2014
d)	ices (frozen	Ododi	00 LAO 100.2014
'	water)	Determination of	AWWA/APHA:3500-CaD
	,	Calcium in water	
		Determination of	AWWA/APHA:2340C
		total hardness in	
		water(as CaCO ₃)	
		Determination of	AWWA/APHA:4500-C- (argentometric method)
		Chlorides in	
		water Determination of	AWWA/APHA:4500-CI- (iodometric method)
		Residual Free	AVVVA/APHA.4500-Ci (lodometric metrod)
		Chlorine in water	Server to the se
		Determination of	AOAC 973.41
		pH in water	
		Determination of	AOAC 973.40
		electrical	
		conductivity in	
		water Detection of	LIC EAC 153:2014
		suspended	US EAS 153:2014
-		matter in water	
		Determination of	AWWA/APHA: 2320
		alkalinity in water	
a)	UHT milk	Corrected	(US EAS 67)- Lactoscan/Calibrated Lactometer, thermometer(0-
b)	pasteurized	Lactometer	100°C), water bath, measuring cylinders
	milk	Reading(density)	
c)	flavored UHT	Milk Est contact	(ISO 2446)- Lactoscan/Gerber Centrifuge (1000-1200 rpm), milk
	milk	Milk Fat content.	butyrometers, water bath(60°C), 90% sulphuric acid, concentrated
		Schodula of Passanitian	amyl alcohol, rubber stoppers.

Total solids. pH. Titratable acidity as Lactic acid:		ISO 6731
		US EAS 33:2019 Annex A-Potentiometric
		EAS 27:2019 (Annex B) EAS 33:2019 (Annex B)
	Solids Non Fat (SNF):	ISO 6731
	pH variation (for only pasteurized milk)	US EAS 27:2019 Annex A US 1597:2017 Annex A Potentiometric test
Cream	Fat content	(ISO 2446)- Gerber Centrifuge
Milk Powder	Moisture Content	(EAS 81) ISO 5537
	Milk fat	(ISO 2446) - Gerber Centrifuge
	Titratable acidity as Lactic acid	ISO 6091
ce Cream	Milk fat content	(ISO 2446)-Gerber Centrifuge (1000-1200 rpm), milk butyrometers, water bath(60°C),90% sulphuric acid, concentrated amyl alcohol, rubber stoppers.
a) Fruit- and vegetable -based Fruit Juices	Brix.	ISO 2173-Calibrated Refractometer, water bath (20°C), deionised water sufficient light
b) Fruit Juice Concentr ates		
c) Non- carbonat ed soft drinks		er e ^e commenter of the commenter of th

Non-alcoholic Beverages	Determination of ethanol content in non-alcoholic beverages.	(ISO 2448) Titrimetric method-sulphuric acid, calcium hydroxide, potassium dichromate solution, potassium permanganate, ammonium iron(ii)sulphate solution, titration apparatus	
Salted butter	Determination of salt content.	(ISO 1738:2004) Titrimetric method- 5% (w/v) aqueous potassium chromate solution, standard silver nitrate solution (0.1N), sodium hydroxide, calcium carbonate, conical flask, pipettes.	
Ghee	Determination of the peroxide value. Determination of the free fatty	(AOAC 965.33) Titrimetric method-absolute diethyl ether, absolute ethanol, phenolphthalein indicator, KOH, titration apparatus. (ISO 1740/IDF 6)- Potentiometric titration: Rectified spirit 95%(v/v) phenolphthalein indicator, sodium hydroxide(0.1N), titration	
a) Maize flour b) Whole maize meal c) Wheat flour	acids. Determination of the peroxide value.	apparatus (AOAC 965.33) Titrimetric method-absolute diethyl ether, absolute ethanol, phenolphthalein indicator, KOH, titration apparatus.	
	Determination of the free fatty acids.	ISO 1740/IDF 6)- Potentiometric titration: Rectified spirit 95%(v/v) phenolphthalein indicator, sodium hydroxide(0.1N), titration apparatus	
	Total ash content. Acid insoluble	(AOAC 923.03) ISO 2171-Gravimetric method (AOAC 923.03, (23.1.05))	
	ash. Moisture	ISO 5985-Gravimetric method EAS 901	
a) Ground coffee b) Roasted nuts	content. Moisture content.	AOAC (1985) 24.002-Gravimetric method Gravimetric method Hot air oven, dessicator with silica gel, analytical balance (0.001g), aluminum vials with lids.	
(Ground and cashew nuts) c) Moringa	Acid insoluble ash.	ISO 1026 US EAS 105:1999 Annex E AOAC methods 1:1990 -Gravimetric method	
powder	Total ash content.	ISO 936 US EAS 105:1999 Annex F -Gravimetric method	
a) Vinegarb) Egg whitec) Yoghurt	рН	(AOAC 981.12)-Potentiometric	
HAND SANITIZER (alcohol and non-	Determination of pH.	US 1625:2015-Annex B; Potentiometric	
alcohol based sanitizers)	Determination of alcohol content.	US EAS 104	

COSMETICS (oil- and water- emulsion Skin creams and	Total fatty matter content.	(EAS 786:2013- Annex C)- Dilute Sulphuric acid (4M), acetone and diethyl ether, methyl orange indicator solution, anhydrous sodium sulphate, dessicator with silica gel, separating funnel.
lotions)	pH value.	(EAS 786:2013- Annex B)- Electrical conductivity meter, PH meter, beaker (100ml), buffer solutions, deionized water, water bath, filter paper and funnel, rectified alcohol
	Thermal stability.	(EAS 786:2013- Annex A) Hot air oven at 37±1

ISSUED BY

UGANDA NATIONAL BUREAU OF STANDARDS

MANAGER CERTIFICATION DEPARTMENT