UGANDA NATIONAL BUREAU OF STANDARDS

CERTIFICATE OF LABORATORY RECOGNITION

Certificate No: UNBS/LRS/0002

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

CHEMIPHAR (U) LIMITED,

Plot 224-226, Kyeyune Road, Kiggundu Zone,
Kansanga, 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: 2021-09-20
Date of original issue: 2016-11-16
Certificate Issue No:03

Effective Date: 2021-09-20
Expiry date: 2023-11-15
Certificate Issue date: 2021-09-20

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Executive Director
UGANDA NATIONAL BUREAU OF STANDARDS

ANNEX A

SCHEDULE OF RECOGNITION – TESTING LABORATORIES

Facility Number	UNBS/LRS/0002	S/N	Technical Signatories	Method
Chemiphar Uganda Limited P.O. Box 25525 Kampala, Uganda Kigundu Zone Road, Kansanga, Uganda		1.	Julius Mbabazi	Technique;: MP-AES , AAS, GF-AAS, FIMS, Spectrometry
		2.	Kifuuse Peter	Technique;: GC MSMS, Spectrometry, Gravimetric
		3.	Brian Kusiima	Technique;: Gravimetric, Titrimetry, Spectrometry
		4.	Dauglous Akale	Technique;: MP-AES (metals), Gravimetric
		5	Joseph Wasswa	Technique;: HPLC, Spectrometry, Gravimetric
		6	Rogers Kisawuzi	Technique; Plate count, Streak plate, Membrane filtration
		7	Olivia Kitimbo	Technique; Plate count, Streak plate, Membrane filtration

Material or products tested	Type of tests/property measured, Range of Measurement	Standard specifications, Techniques/Equipment used
TESTING FIELD - MICROBIOLOGY		
Foodstuffs, sugar, animal feeds, soft drinks, Fruit juices, Fish and fish products, Milk and milk products, Meat and meat products, contact plates and swabs(hygiene)	Total plate count	Plate count
	Total and thermotolerant coliforms	
	E.coli	
	Salmonella	Streak plate
	Coagulase positive Staphylococcus (including Staphylococcus aureus	Plate count
	Sulphite reducing anaerobes Total anaerobic count Spores of sulphite reducing anaerobes	
	Intestinal enterococci	
	Vibrio cholera and Vibrio parahaemolyticus	Streak plate
	Listeria monocytogenes (qualitative)	Streak plate
	Listeria monocytogenes (quantitative)	Plate count
	Enterobacteriaceae (30 & 37°C)	
	Clostridium perfringens	
	Yeasts and moulds	
	Bacillus cereus	

	Pseudomonas aeurignosa	
	Cronobacter sakazajki	
	Lactobacilli	
Sesame and Chia seeds	Salmonella species	
Meat and meat products	E.coli 0157:H7	Streak plate
Hand sanitizer	Bacterial efficacy	
Cosmetics	Pseudomonas aeurignosa	
	Staphylococcus aureus	
	Total aerobe count	
	Candida albicans	Plate count
Water and ice	Enumeration of aerobic and facultative anaerobic micro-organisms at 22 and 37°C	Membrane filtration and plate count
	Total and thermotolerant coliforms	
	E.coli	
	Staphylococcus aureus	
	spores of Sulphite reducing anaerobes	
	Intestinal enterococci	
	Vibrio cholera and Vibrio parahaemolyticus	
	Listeria monocytogenes (qualitative)	
	Clostridium perfringens Sulphite reducing anaerobes Total anaerobe count Yeast and moulds	
	Pseudomonas aeurignosa	Membrane filtration
	Salmonella species	Streak plate
Sanitary pads	Total plate count	Plate count
	E.coli	

	Enterobacteriacea	
	Staphyloccus aureus	
	Yeasts and moulds	
	Pseudomonas aeruginosa	
TESTING FIELD - CHEMISTRY		
Water	pH	Potentiometer
	Electrical Conductivity	Potentiometer
	Ammonia	Spectrometry
	Nitrite	Spectrometry
	Nitrate	Spectrometry
	KjN	Spectrometry
	Chlorides	Spectrometry
	Fluorides	DR-UV
	Soluble Reactive Phosphates	Spectrometry
	Sulphates	Spectrometry
	Cyanide	spectrophotometry
	Alkalinity	APHA
	Total hardiness	APHA
	Oil and grease	Gravimetric
	Temperature	Thermometry
	Odour	Physical
	Total Phosphates	Spectrophotometry
	Total organic carbon	DR-UV
	Polycyclic aromatic hydrocarbons	GC MSMS

	Turbidity	ASTM
	TSS	Gravimetric
	TDS	Gravimetric
	BOD	APHA 23rd edition
	COD	Potassium dichromate method/ DR-UV
	Metals/Minerals- Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Zn.	MP-AES/ Flame-AAS/ GF-AAS
	Hg	FIMS
	Pesticide (OCP, OPP, Pyrethroids)	GC MSMS
Foodstuffs/ Feeds	Metals/Minerals- Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Zn	MP-AES/ Flame-AAS/ GF-AAS
	Hg	FIMS
	Moisture	Gravimetric
	Crude fibre	Gravimetric
	Protein	Titrimetry
	Ash	Gravimetric
	Fat	Gravimetric
	Carbohydrates	Computation
	Energy value and energy density	Computation
	Vitamin A	HPLC/ HPTLC
	Vitamin C	HPLC
	Total aflatoxin	ELISA -Aflatoxin test kits
	Pesticides	GC MSMS
Fruits and vegetables	Pesticides ((OCP, OPP, Pyrethroids))	GC MSMS
	Dithiocarbamates	Spectrometry

Fish and fish products	TVBN	Titrimetry
	TMAO	Titrimetry
	Pesticides (OCP, OPP, Pyrethroids))	GC MSMS
	PAHs	GC MSMS
	PCBs	GC MSMS
Honey	HMF	Spectrometry
	Moisture	Refractometry
	Diastase	Spectrometry
	Pesticides (OCP, OPP, Pyrethroids))	GC MSMS
	Dithiocarbamates	Spectrometry
Cosmetics (soap, lotions, oils, gels)	Hydroquinone	HPLC
	Thermal stability	Gravimetric/ physical
	pH	Potentiometry
	Total fatty substances	Gravimetric
	As, Pb	GF AAS/ MP-AES
	Hg	FIMS
	Acid value	Titrimetry
	Moisture	Gravimetric
	Rancidity	Titrimetry
	Peroxide value	Titrimetry
Beverages and alcohols (gin, spirits)	Caffeine	HPLC
	Higher alcohol	GC FID
	Brix	Refractometer
	Methyl alcohol	GC FID

	Ethyl alcohol	GC FID
	Acetic acid	GC FID
	Residue on evaporation	Gravimetric
	Total acidity as tartaric acid	Titrimetry
	Volatile acids as acetic acids	Titrimetry
	Esters	Titrimetry
	Aldehydes	Titrimetry
	Furfural	Titrimetry
	Copper	MP-AES
Milk and milk products	pH and pH variation	Potentiometry
	Fat	Lactoscan/ Gravimetric
	Titratable acidity and titratable acidity variation	Titrimetry
	Density	Lactoscan densitometer
	Total solids	Lactoscan/
	Solid non fat	Lactoscan
	Lactose	Lactoscan
	Added water	Lactoscan
	Protein	Lactoscan Titrimetry
Vanilla	Vanillin	Spectrometry
	Pesticides (OCP, OPP, Pyrethroids))	GC MSMS
	Dithiocarbamates	Spectrometry
	Moisture	Gravimetric
Grains and pulses	Grading of beans	EAS 46
	Grading of maize	EAS 2

	Grading of sorghum	EAS 757
	Grading of rice	EAS 128
	Grading of cocoa beans	FCC rules
Sanitiser	Alcohol content	GCFID
Salt	Sodium chloride	Titrimetry
	Metals	MPAES/ Flame AAS/ GFAAS
	Moisture content	Gravimetric
	Iodine content	Titrimetry
	Insoluble impurities	Gravimetric
Sugar	Polarisation	Polarimetry
	Colour	ICUMUSA
	Metals	MPAES/ Flame AAS/ GFAAS
	Moisture	Gravimetric
	Insoluble impurities	Gravimetric
Juice/ pulp	Brix	Refractometer
	Metals	MPAES/ Flame AAS/ GFAAS
	Vitamin C	HPLC
	Acidity	Titrimetry
	Pesticides (OCP, OPP, Pyrethroids)	GC MSMS
	Crude fibre	Gravimetric
	Ash	Gravimetric
Dried fruits	Shelf life	
Cotton wool	Number of nepes	Physical
	Length of staple	Physical

	pH range	Potentiometry
	Soluble substances	Gravimetric
	Substance soluble in ether	Gravimetric
	Oxidising substances	Qualitative
	Sulphated ash	Gravimetric
	Colouring substances	Qualitative
	Net mass declared	Gravimetric
	Moisture regain	Gravimetric
Agricultural seeds	Moisture	Gravimetric
	Purity, germination, Other Seed Determination (OSD), Vigour test, Thousand Seed Weight (SW)	ISTA rules

ISSUED BY

UGANDA NATIONAL BUREAU OF STANDARDS

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MANAGER CERTIFICATION DEPARTMENT