

CERTIFICATE OF ACCREDITATION

KENYA BUREAU OF STANDARDS

Co. Reg. No.: N/A

Facility Accreditation Number: **T0705**

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 & 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

Technical Signatories:
Acting Chief Executive Officer

Effective Date: 07 January 2022
Certificate Expires: 10 November 2026

ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0705**

Permanent Address of Laboratory:

Kenya Bureau of Standards (KEBS) Testing Services
Department
Popo Road Off Mombasa Road, Past
Bellevue Cinema
Nairobi
Kenya

Technical Signatories:

Mr J Nzuba (Head office) (All Petroleum & Organic Chemistry)
Mr T Oduor (Head Office) (All Inorganic Chemistry methods)
Ms F Kisulu (Mombasa) (All Microbiology Methods)
Mr A Opiko (Mombasa) (All Microbiology Methods)
Mr B Wesonga (Mombasa) (All Microbiology Methods)
Mr A Irungu (All Food & Agriculture Methods -Head Office)
Ms A Seruya (All Food & Agriculture Methods -Head Office)
Ms R Kubende (Head Office Microbiology)
Mr B Kipkirui (Head Office Microbiology)
Ms W Chebet (All Microbiology Methods-Kisumu)
Ms K Were (All Microbiology Methods-Kisumu)
Mr C Onduso (All Microbiology Methods-Kisumu)
Ms A Abdun (Head Office) (All Petroleum & Organic Chemistry-Methods)
Ms S Kemboi (All Petroleum & Organic Chemistry Methods)
Mr B Malit (Head Office) (All Petroleum & Organic Methods)
Mr J Hare (Head Office) (All Inorganic Chemistry methods excl. TES/NG/TM/56)
Mr D Wanjiiru (Head Office) (All Inorganic Methods Excl. TES/NG/TM/56)
Mr N Achesa (All Chemistry Methods Mombasa)
Mr I Nyangena (All Chemistry Methods-Mombasa)
Ms R Ndunda (Head Office) (All Food & Agriculture Methods)
Ms E Aura (Head Office) (All Food & Agriculture Methods)
Ms A Mwende (Head Office) (All Food & Agriculture Methods)
Ms P Muturi (All Food & Agriculture methods)
Ms L Kerubo (5 Microbiology Methods Mombasa) (TM22, TM18, TM02, TM08, TM05)
Mr A Clarkson (All Microbiology Methods-Nairobi)
Ms A Wanjiiru (5 Microbiology- Methods-Mombasa) (TM22, TM18, TM02, TM08, TM05)
Ms C Kasiwai (All Microbiology Methods-Nairobi-Head Office)
Ms E Sanya (All Food & Agriculture Methods- Head Office)
Mr

I Mugenya (5 Methods-Chemistry Food & Agriculture -Kisumu) (TM02, TM05, TM08, TM11 & TM38)

Mr F Oindi (All Methods Chemistry Food & Agriculture-Kisumu)

Ms M owuor (All-8 Methods Chemistry /Food & Agriculture-Kisumu)

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Mr Irungu Anthony

Issue No.: 10

Date of Issue: 19 June 2024

Expiry Date: 10 November 2026

Material or Products Tested	Type of Tests/ Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
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ORGANIC CHEMISTRY & PETROLEUM LABORATORY (HEAD OFFICE)

Automotive gas oil (Diesel)	Determination of Density @ 20°C	TES/ORG/TM/19
	Determination of flash Point	TES/ORG/TM/37
	Determination of kinematic viscosity @ 40°C	TES/ORG/TM/10
Alcoholic Beverages	Determination of Total Dissolved Solids	TES/ORG/TM/34
	Determination of Ethanol Content	TES/ORG/TM/36
Soap	Determination of Total Fatty Matter	TES/ORG/TM/09
	Determination of Matter Insoluble in ethanol	TES/ORG/TM/04
	Determination of Caustic (free) alkali	TES/ORG/TM/08
	Determination of Total free Alkali	TES/ORG/TM/35

INORGANIC CHEMISTRY LABORATORY (HEAD OFFICE)

Flour	Determination of Zinc and Iron	TES/ING/TM/57
Black Tea	ICP OES Analysis of Copper, Lead, Cadmium, Arsenic and Zinc and Mercury	TES/ING/TM/58
Milled Rice	ICP OES Analysis of Arsenic Cadmium and Lead	TES/ING/TM/59
Water (Drinking & Potable)	ICP OES Multielement Methods	TES/ING/TM/99
Cement	Determination of Sulphates	TES/ING/TM/60
	Determination of Chlorides	TES/ING/TM/61
Water (Drinking & potable)	Determination of pH	TES/ING/TM/46
	Determination of Nitrates	TES/ING/TM/18
	Determination of Manganese	TES/ING/TM/56

Salt	Determination of Iodine	TES/ING/TM/16
Sugar	Determination of Polarization	TES/ING/TM/23
FOOD AND AGRICULTURE LABORATORY (HEAD OFFICE)		
Meat & Meat Products	Determination of Moisture	TE/F&A/TM/01
	Determination of Total fat	TES/F&A/TM/03
	Determination of Total ash	TES/F&A/TM/04
milled cereal products	Determination of Moisture Content	TES/F&A/TM/08
	Determination of Total ash	TES/F&A/TM/11
Animal feeds	Crude Oils & Fat Animal Feedstuffs	TES/F&A/TM/15
	Total Ash Animal Feeds	TES/F&A/TM/16
	Acid insoluble Ash Animal feedstuffs	TES/F&A/TM/17
	Phosphorus Animal Feedstuff	TES/F&A/TM/19
Fertilizer	Determination of Moisture Content	TES/F&A/TM/20
	Determination of Total Nitrogen	TES/F&A/TM/21
	Determination of Total Ammoniacal Nitrogen	TES/F&A/TM/22
	Determination of Water Soluble phosphorus	TES/F&A/TM/23
	Determination of Total Phosphorus	TES/F&A/TM/24
	Determination of mineral acid in soluble sulphates	TES/F&A/TM/25
Urea Fertilizer	Determination of Moisture	TES/F&A/TM/26
Animal feeds, raw materials for compounding, animal feeds and food stuffs)	Determination of Aflatoxins	TES/F&A/TM/30
Instant Coffee	Determination of Moistures	TES/F&A/TM/31
Milled cereal products, sugar edible oil & food stuffs	Determination of Vitamin A	TES/F&A/TM/33
Food Stuff & Feeds	Determination of Vitamin E	TES/F&A/TM/34
Black Tea	Determination of Moisture	TES/F&A/TM/45
	Determination of Total Ash	TES/F&A/TM/46
	Determination of alkalinity of water soluble ash	TES/F&A/TM/47
	Determination of Water Soluble Ash	TES/F&A/TM/48
	Determination of Acid Insoluble Ash	TES/F&A/TM/49
	Determination of Water extract	TES/F&A/TM/50
Honey	Determination of Hydroxymethyl Furfural (HMF)	TES/F&A/TM/51
	Determination of Reducing sugar and sucrose	TES/F&A/TM/52
Cereal and cereal products, meat and meat products	Determination of crude protein	TES/F&A/TM/28

Dried Milk products	Determination of Titratable acidity	TES/F&A/TM/13
Cream, condensed milk & yoghurt	Determination of Titratable acidity and Cream, condensed milk & yogurt	TES/F&A/TM/14
Fruits and Veg products (Beverages, juice, Non Alcoholic Beverages and Carbon Beverages)	Determination of Titratable acidity	TES/F&A/TM/09
Milk (Milk products and Dairy Products)	Determination of Total Fat	TES/F&A/TM/05
Fruits (Veg juice and related products, Beverages, Fruit and Vegetable juice, Non-Alcoholic Beverages and Carbonated Beverages)	Determination of pH value	TES/F&A/TM/06
Fruits & Vegetables, Juice, Non-Alcoholic Beverages and Carbonated Beverages	Determination of Alcoholic Strength	TES/F & A/ TM/10
Milk (Fresh liquid, Milk Products)	Determination of Milk Density @20°C	TES/F&A/TM/07
Animal feeds, raw materials for compounding Animal feeds	Determination of Moisture content	TES/F&A/TM/29
Fruit & Vegetable Products	Determination of Soluble Solids	TES/F&A/TM/02
Cereals, Nuts & Food	Determination of Total Aflatoxin & aflatoxin B1	TES/F&A/TM/38

CHEMISTRY COAST REGION MOMBASA

Water	Determination of pH	TES/ING/TM/46
	Determination of Chloride	KS ISO 9297
	Determination of Fluoride	TES/ING/TM/54
	Determination of metals: Co, Ni, Cu, Zn, Cd, Pb (AAS)	KS ISO 8288
Beverages	Determination of Ethanol	TES/ORG/TM/36
Fruit & Vegetable Products	Determination of Soluble Solids	TES/F&A/TM/02
	Determination of Alcohol Strength	TES/F&A/TM/10
Animal & Vegetables fats & Oils	Determination of Refractive Index	KS ISO 6320
Soap	Determination of Matter insoluble in Ethanol	TES/ORG/TM/04
Black Tea	Determination of Moisture content	TES/F&A/TM/50
Cereal, Nuts & Food	Determination of Total Aflatoxin	TES/F&A/TM/38

CHEMISITRY FOOD AND AGRICULTURE (KISUMU)

Milk (Milk products and Dairy products Vegetable	Determination of Total Fat	TES/F & A/TM/05
Fruit Products	Determination of Soluble Solids	TES/F & A/ TM/02
Cereal & cereal Products	Determination of Moisture content	TES/F & A/TM/08
	Determination of Total ash	TES/F & A/TM/11

Water (Drinking & Potable)	Determination of zinc and Iron	TES/ING/TM/57
	Determinations of Nitrates	TES/ING/TM/18
	Determination of Fe, Na, Zn, K, Ca, mg, Al, Cu, Mn	TES/CHE/LAR/TM/05
Cereals, nuts & derived products	Determination of total aflatoxin & aflatoxin B1	TES/F & A/TM/38
MICROBIOLOGY LABORATORY (HEAD OFFICE)		
Dairy products	Enumeration of coliform bacteria by colony count technique	ISO 4832:2006
	Detection of <i>Salmonella</i> species	ISO 6579-1/Amd 1: 2020
	Enumeration of <i>Staphylococcus aureus</i> using Baird-Parker agar Medium	ISO 6888-1:2021/Amd 1:2023
	Enumeration of microorganisms by colony count technique	ISO 4833:2013/Amd 1: 2022
	Enumeration of Yeast and Moulds by colony count method	ISO 6611:2004
	Detection and enumeration of <i>Escherichia coli</i> by colony count using membranes	ISO 11866-2:2005
	Enumeration of <i>Enterobacteriaceae</i>	ISO 21528-2:2017
Food and animal feeding stuffs	Enumeration of Coliforms bacteria by colony count technique	ISO 4832:2006
	Detection of <i>Salmonella</i> species	ISO 6579:2017 AMD ISO 1: 2020
	Enumeration of <i>Staphylococcus aureus</i> using Baird-Parker agar Medium	ISO 6888-1:1999/AMD 2:2018
	Enumeration of Microorganisms by colony count technique	ISO 4833:2013
	Enumeration of Yeast and Moulds by colony count method	ISO 21527:2008
	Detection and enumeration of <i>Escherichia coli</i>	ISO 16649-2: 2001
	Detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio cholerae</i>	ISO 21872-1:2017
	Enumeration of <i>Enterobacteriaceae</i> by colony count method	ISO 21528-2:2017
	Enumeration of <i>Clostridium perfringens</i> in food and animal feeding stuffs	ISO 15213-1:2023
	Enumeration of Lactic Acid bacteria in foods and feeding Stuffs	ISO 15214:1998
	Detection & Enumeration of <i>Campylobacter</i> spp.	ISO 10272-182:2017/Amd 1: 2023
	Detection of <i>Escherichia coli</i> 0157	ISO 16654:2001/Amd 1: 2017 & Amd 2: 2023
	Enumeration of <i>Bacillus cereus</i> by colony count technique	ISO 7932:2004 and 1: 2020

Water (Drinking)	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2:2017
	Detection and Enumeration of <i>Pseudomonas aeruginosa</i> by using Pseudalert test kit	ISO 16266-2:2018
	Detection and Enumeration of coliforms by Membrane filtration method	ISO 9308-1:2014/Amd 1:2016
	Detection and Enumeration of coliforms and <i>Escherichia coli</i> using Colilert test kit	ISO 9308-2:2012
	Detection of Salmonella species	ISO 19250:2010
	Enumeration of microorganisms by colony count technique at 37°C & 22°C	ISO 6222:1999 ISO 8199:2018
	Detection and enumeration of sulphite reducing bacteria by membrane filtration method	ISO 6461-2:1986
	Enumeration of <i>Streptococcus/Enterococcus faecalis</i> by Membrane filtration method	ISO 7899-2:2000
	Detection and Enumeration of <i>Streptococcus/Enterococcus faecalis</i> using Enterolert-E Test Kit	IDEXX Enterolert -E Kit
	Enumeration of Yeast and Moulds by colony count technique	ISO 6222:1999
	Detection and enumeration of <i>Legionella</i> spp-direct membrane filtration methods for water with low bacterial count	ISO 11731-2:2017
	Enumeration of <i>Clostridium perfringens</i> by membrane filtration method	ISO 14189: 2013
Refiner Sugar	Detection of <i>Shigella</i>	ISO 21567:2004
	The Determination of the Total mesophilic Bacteria count in Refined sugar products by the pour plate method of the membrane filtration method (Total Viable count)	GS2-41
	The Determination of Yeast & Moulds in Refined Sugar products by the pour plate method or the membrane filtration methods	(GS2-47
	The Determination of thermophilic spore-forming Bacteria in Refined sugar products by pour plate method or membrane filtration method	(GS2-49
	Determination of Thermophilic Acidophilic Bacteria (TAB) in Sugar Products	(GS2-50
Cosmetics	Detection of <i>Escherichia coli</i>	ISO 21150:2015/Amd 1:2022

Detection of <i>Candida albicans</i>	ISO 18416:2015/Amd 1:2022
Detection of <i>Pseudomonas aeruginosa</i>	ISO 22717:2015/Amd 1: 2022
Detection of <i>Staphylococcus aureus</i>	ISO 22718:2015/Amd 1: 2022
Enumeration of Yeast & Mould	ISO 16212:2017/Amd 1: 2022
Enumeration and Detection of Aerobic mesophilic bacteria (Total Viable Count)	ISO 21149:2017/Amd 1: 2022

MICROBIOLOGY LABORATORY COAST REGION (MOMBASA)

Food and animal Feeding stuff	Enumeration of coliforms @37°C by colony count technique	TES/MIC/TM/07
	Detection of Salmonella Species	TES/MIC/TM08
	Enumeration of <i>Staphylococcus aureus</i>	TES/MIC/TM09
	Enumeration of microorganisms @ 30°C by colony count technique	TES/MIC/TM/10
	Enumeration of coagulase positive <i>Staphylococcus</i> including <i>Staphylococcus aureus</i> by Spread Plate Method Confirmed by Tube Coagulase	TES/MIC/TM/09
	Enterobacteriaceae (Enumeration in Food & Animal Feeding Stuff by colony count technique)	TES/MIC/TM/22
	Enumeration of Yeast & Moulds by colony count techniques	TES/MIC/TM/11
	Enumeration of <i>Enterobacteriaceae</i> by colony count technique	TES/MIC/TM22
Dairy products	Enumeration of coliform bacteria in dairy products by colony count technique	TES/MIC/TM/01
	Detection of Salmonellae spp. in dairy products	TES/MIC/TM/02
	Detection of Salmonella spp in food and animal feeding stuff	TES/MIC/TM/08
	Enumeration of Enterobacteriaceae in Dairy products by Colony Count Technique	TES/MIC/TM/18
	Enumeration of microorganisms in dairy products by colony count technique	TES/MIC/TM/04
	Enumeration of yeast & moulds in dairy products by colony technique	TES/MIC/TM/05
Water (Drinking & Potable)	Enumeration of <i>staphylococcus aureus</i> in dairy products by colony count techniques	TES/MIC/TM/03
	Enumeration of microorganisms in water by pour plate technique	TES/MIC/TM/16
	Enumeration of microorganisms in water	TES/MIC/TM/16

	A) Total Viable Counts @ 22°C for 72hrs	TES/MIC/TM16
	B) Total Viable Counts @ 37°C for 48hrs	TES/MIC/TM16
Water & Food	Detection of <i>Salmonella</i> Species	TES/MIC/TM/15
	Detection of <i>Salmonella</i> spp. in Foods & Animal feedings Stuffs	TES/MIC/TM/08
MICROBIOLOGY LABORATORY (KISUMU)		
Dairy Products	Enumeration of Coliform bacteria	TES/MIC/TM/01
	Detection of <i>Salmonella</i> Species	TES/MIC/TM/02
	Enumeration of <i>Staphylococcus aureus</i>	TES/MIC/TM/03
	Enumeration of Microorganisms	TES/MIC/TM/04
	Enumeration of Yeast and Moulds	TES/MIC/TM/05
Food Animal Feed	Enumeration of Coliforms	TES/MIC/TM/07
	Detection of <i>Salmonella</i> Species	TES/MIC/TM/08
	Enumeration of <i>Staphylococcus aureus</i>	TES/MIC/TM/09
	Enumeration of Microorganisms	TES/MIC/TM/10
	Enumeration of Yeast and Moulds	TES/MIC/TM/11
Water	Detection and Enumeration of Coliform bacteria	TES/MIC/TM/14
	Detection of <i>Salmonella</i> Species	TES/MIC/TM/15
	Enumeration of Microorganisms @22°C and 37°C	TES/MIC/TM/16

Original Date of Accreditation: 11 November 2016

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager