



KENYA
ACCREDITATION
SERVICE

P. O. Box 47400 – 00100 | TEL. +254 - 20 484 0000 | Nairobi, Kenya

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SCHEDULE OF ACCREDITATION

CROP NUTRITION LABORATORY SERVICES LIMITED

ISO/IEC 17025:2017

Testing Laboratory Number: **KENAS/TL/021**

PERMANENT ADDRESS OF LABORATORY

Crop Nutrition Laboratory Services Limited

P. O. Box 66437 - 00800

Limuru Subcounty, Limuru Central Ward

Plot No 4861, Kiambu County

Nairobi - Kenya

Tel: +254 (0) 711094444, +254 (0) 720639933

Email Address: support@cropnuts.com

Website: www.cropnuts.com

Laboratory Contact Person

Josephine Gakobo

Approved by: _____

~~KENAS CEO~~/Authorized Representative

Date: 16-JAN-2025

No.	TESTING FIELD	Test Object / Matrix	Test Parameter	Test Method	Type of Test	MEASUREMENT RANGE	TEST LOCATION
01	Microbiology	Water	Thermotolerant Coliforms and Escherichia coli	CN-TM-M01	Enumeration	2 - 1800 mpn/100ml	Microbiology Laboratory Limuru
			Total Bacterial Counts @ 22 and 37 degrees Celsius	CN-TM-M02		≥1 cfu/ml	
			Total Coliforms and Escherichia coli	CN-TM-M03		≥1 cfu/100ml	
			Streptococcus faecalis / Intestinal enterococci	CN-TM-M04		>1 cfu/100 ml	
			Pseudomonas aeruginosa	CN-TM-M06		≥1 cfu/100ml	
		Food, feed, swabs & water	Clostridium perfringens and sulphite reducing anaerobes	CN-TM-M05	Detection	≥1 cfu/g, <300 cfu/plate & ≥1cfu/100ml respectively	
			Staphylococcus aureus	CN-TM-M07		<300 cfu/plate in food & feed & ≥1 cfu/100ml in water	
			Salmonella spp.	CN-TM-M08		Qualitative	
			Vibrio spp.	CN-TM-M09		Qualitative	
			Listeria species and Listeria monocytogenes	CN-TM-M11		Detection & enumeration	
		Food, feed & swabs	Total Plate count	CN-TM-M12	Enumeration	<300 cfu/plate in food & feed & ≥1 cfu/100ml in water	
			Total coliform count	CN-TM-M13		<300 cfu/plate	
			Escherichia coli	CN-TM-M14		≥1 cfu/g, <300 cfu/plate in food & feed & ≥1 cfu/100ml in water	
			Yeast and mould	CN-TM-M15		<150 cfu/plate	
			Enterobacteriaceae	CN-TM-M16		≥1 cfu/g, <300 cfu/plate in food & feed & ≥1 cfu/100ml in water	

		Food & Feed	Bacillus species	CN-TM-M18		≥1 cfu/ml, <300 cfu/plate in food & feed		
02	Chemistry	Tea	Moisture	ISO1573	Gravimetry	≥ 0.01 % m/m	Chemistry Laboratory, Limuru	
			Water extract	CN-TM-P08 (ISO 9768)		≥ 0.01 % m/m		
03	Chemistry	Tea	Total Ash Content	ISO1575	Gravimetry	≥ 0.2 % m/m	Chemistry Laboratory, Limuru	
			Water Soluble Ash	ISO1576		≥ 0.2 % m/m		
			Alkalinity of Water-Soluble Ash	ISO1578	Titrimetric	≥ 0.02 % m/m		
			Total Polyphenols	(ISO 14502) CN-TM-P12	Spectrophotometry	≥ 0.2 % m/m		
			Arsenic	CN-TM-P09	Spectrophotometry (ICP-OES)	≥ 0.02 ppm		
			Cadmium			≥0.01 ppm		
Lead	≥0.04 ppm							
04	Chemistry	Food & Animal Feeds	Total Aflatoxins (B1, B2,G1,G2)	CN-TM-P11	Elisa	≥ 1 ppb		
			Fumonisin	CN-TM-P14		≥ 0.15 ppm		
			Ochratoxin	CN-TM-P15		≥1.5 ppb		
			Aflatoxin B1	CN-TM-P16		≥1.5 ppb		
			Aflatoxin M1	CN-TM-P22		≥5 ppt		
			Crude protein	CN-TM-P20		Combustion		≥0.2 - 100%
			Total Oil/fat content	CN-TM-P21	Soxhlet	≥0.2 - 100 %		
			Moisture Content	CN-TM-P17	Gravimetric	≥0.01 - 100%		
			Acid Insoluble ash	CN-TM-P19		≥0.05 - 100%		
			Total Ash content	CN-TM-P18		≥0.2 - 100%		
			05	Chemistry	Soil	Potassium		CN-TM-S07
Aluminium	≥0.8 ppm							
Phosphorus	≥0.2 ppm							
Calcium	≥0.2 ppm							
Magnesium	≥0.2 ppm							
Iron	≥0.6 ppm							
Boron	≥0.02 ppm							
Sulphur	≥0.5 ppm							
Zinc	≥0.2 ppm							
Manganese	≥0.3 ppm							
Copper	≥0.2 ppm							
pH	CN-TM-S02	Potentiometric				0 - 14	Chemistry	

			Arsenic Cadmium Cobalt Chromium Molybdenum Nickel Lead Strontium Tin Aluminium Zinc Copper	CN-TM-S16 (Aquaregia)	Spectrophotometry	≥ 0.2 ppm ≥ 0.2 ppm ≥ 0.1 ppm ≥ 0.15 ppm ≥ 0.1 ppm ≥ 0.1 ppm ≥ 0.2 ppm ≥ 0.07 ppm ≥ 0.05 ppm ≥ 0.8 ppm ≥ 0.2 ppm ≥ 0.2 ppm	Laboratory, Limuru
06	Chemistry	Fertilizer, Gypsum and agricultural liming material	Calcium Calcium as CaO Phosphorus Phosphorous as P ₂ O ₅ Phosphorous as PO ₄ Potassium Potassium as K ₂ O Magnesium Magnesium as MgO Iron Boron Sulphur Sulphur as SO ₄ Zinc Manganese Copper Molybdenum Arsenic Lead Nickel Chromium Cadmium	CN-TM-F02 (AOAC method 965.09)	Spectrophotometry	≥ 0.05 ppm ≥ 0.07 ppm ≥ 0.01 ppm ≥ 0.0229 ppm ≥ 0.0307 ppm ≥ 0.12 ppm ≥ 0.1446 ppm ≥ 0.01 ppm ≥ 0.017 ppm ≥ 0.01 ppm ≥ 0.01 ppm ≥ 0.02 ppm ≥ 0.06 ppm ≥ 0.01 ppm ≥ 0.01 ppm ≥ 0.01 ppm ≥ 2 ppm ≥ 1.25 ppm ≥ 0.6 ppm ≥ 1 ppm ≥ 0.15 ppm	Chemistry Laboratory, Limuru
07	Chemistry	Fertilizer	Total Nitrogen		Calculations	$\geq 0.01 - 100\%$	
			Ureic N	CN-TM-F05	Spectrophotometry	$\geq 0.01 - 100\%$	
			Moisture Content	CN-TM-F08	Gravimetric	$\geq 0.01 - 100\%$	

08	Chemistry	Water	Electrical Conductivity	CN-TM-W02	Conductivity	$\geq 1\mu\text{S/cm}$	
			pH	CN-TM-W01	Potentiometric	0 -14	
			Phosphates	CN-TM-W23	Spectrophotometry	≥ 0.03 ppm	
			Sulphates	CN-TM-W23		≥ 0.1 ppm	
			Fluoride	CN-TM-W04		≥ 0.03 ppm	
			Nitrite N (NO ₂ N)	CN-TM-W21		$\geq 0.25 - 100$ ppm	
09	Chemistry	Water & Wastewater	Arsenic	CN-TM-W14	Spectrophotometry (ICP-OES)	≥ 0.007 ppm	Chemistry Laboratory, Limuru
			Barium			≥ 0.01 ppm	
			Cadmium			≥ 0.002 ppm	
			Cobalt			≥ 0.001 ppm	
			Chromium			≥ 0.004 ppm	
			Nickel			≥ 0.003 ppm	
			Lead			≥ 0.09 ppm	
			Selenium			≥ 0.02 ppm	
			Strontium			≥ 0.01 ppm	
			Chemical Oxygen Demand (COD)	CN-TM-W12	Colorimetric	≥ 1.5 ppm	
10	Chemistry	Water, Effluent & Hydroponics	Aluminium	CN-TM-W08	Spectrophotometry (ICP-OES)	≥ 0.07 ppm	
			Potassium			≥ 0.12 ppm	
			Sodium			≥ 0.05 ppm	
			Phosphorus			≥ 0.01 ppm	
			Calcium			≥ 0.05 ppm	
			Magnesium			≥ 0.02 ppm	
			Iron			≥ 0.01 ppm	
			Boron			≥ 0.01 ppm	
			Sulphur			≥ 0.05 ppm	
			Silicon			≥ 0.02 ppm	
			Zinc			≥ 0.01 ppm	
			Manganese			≥ 0.01 ppm	
			Molybdenum			≥ 0.01 ppm	
			Copper			≥ 0.01 ppm	
11	Chemistry	Water, Wastewater, Fertigation Solutions & Fertilizers	(NH ₄) N	CN-TM-W06 (EPA 353.1)	Spectrophotometry	≥ 0.02 ppm	RD
			(NO ₃) N	CN-TM-W07 (EPA 353.1)		≥ 0.02 ppm	



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			Cl-	CN-TM-W03 (EPA 325.2)		≥0.1 ppm	
12	Plant Pathology – Bacteria Detection	Plant Solanaceae & Cucurbitacea, Soil & Water	Rastonia Solanacearum	CN-TM-PT02	<i>DAS - Elisa</i>	Qualitative	Plant Pathology Laboratory

Accreditation History

Type	Decision Date	Effective Date	Expiry
Initial Accreditation	20-FEB-2015	20-FEB-2015	19-FEB-2018
1 st Re-accreditation	16-MAR-2018	16-MAR-2018	19-FEB-2021
2 nd Re-accreditation	23-FEB-2021	23-FEB-2021	19-FEB-2025
3 rd Re-accreditation	16-JAN-2025	20-FEB-2025	19-FEB-2029

This schedule is issued subject to the terms and conditions of KENAS Accreditation. It supersedes any other schedule(s) issued in the past

Approved by: 

Date: 16-JAN-2025

KENAS CEO/ Authorized Representative

