



Certificate of Accreditation

This is to certify that

DALTON AND CHARLES LABORATORIES

1, ADEKUNLE OLUSUYI STREET, OFF RESTORATION AVENUE OFF IGODO,
MAGBORO, OGUN STATE

Has been assessed by the Nigeria National Accreditation System and
meets the requirements of the International Standard

ISO/IEC 17025:2017

with demonstrated technical competence in the field of

Testing

for the specific services listed on the approved Scope of Accreditation.

On behalf of the Nigeria National Accreditation System:



Testing
No. T0050

Date of Issue of First Accreditation: **March 27th, 2026**
Date of Issue of Latest Accreditation: **March 27th, 2026**
Expiry Date: **March 26th, 2030**
Reaccreditation Date: **September 26th, 2029**

Scope of Accreditation

Chemical Testing Laboratory

DALTON AND CHARLES LABORATORIES

1, ADEKUNLE OLUSUYI STREET, OFF RESTORATION AVENUE OFF IGODO, MAGBORO, OGUN STATE

Reference No.: TL0005B

Issue No. 1: 27 03, 2026

Valid to : 26 03, 2030

Material or Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications, Techniques/Equipment Used
CHEMICAL Water (portable/drinking/ tap water, Borehole water, River water, spring water, Sewage/waste water, Effluent water, Influent water, Surface and ground water).	Total dissolved solids (TDS)	APHA 2510 B, Conductivity/TDS meter
	pH	APHA 4500-H+B, pH meter Potentiometry
	Total Hardness	APHA 2340 C EDTA Complexation reaction
	Total Alkalinity	APHA 2320B Acid-base titrimetry
	Chloride	APHA 4500-Cl B, Argentometric Titration
	Conductivity	APHA 2510 B, Conductivity/TDS meter
	Residual Chlorine	APHA 4500-Cl B Iodometric Titration
	Phosphate	APHA 4500-P C Colorimetry method
	Total Acidity	APHA 2320B Acid-base titrimetry
	Silica	APHA 4500-SiO ₂ Colorimetry method
	Oil/grease	APHA 5520B, Solvent Extration
	Dissolved Oxygen	APHA 4500-O B Titrimetric method
	Total Solid	APHA 2540 B Gravimetric method
	Total suspended Solid	APHA 2540B Gravimetric method
FOOD: Vegetables, fruits, infant formulas, meat and meat products, milk & diary, oil & fat products, grains, fresh herbs, nuts & seeds, fertilisers, pasta & pasta products and animal feeds.	pH	AOAC 943.04, pH meter Potentiometry
	Moisture content	AOAC 926.07, AOAC 927.05 Hot Air Oven Dry method
	Ash content	AOAC 923.03 Muffle Furnace, Dry ashing
	Fat content	AOAC 922.06, Solvent extraction
	Protein	AOAC 930.29, Micro Kjeldahl, Titration
	Carbohydrate	Calculation by difference David Pearson 9 th edition 1991 page 592
	Energy Value	Calculation David Pearson 9 th edition 1991 page 4

Material or Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications, Techniques/Equipment Used	
FOOD: Vegetables, fruits, infant formulas, meat and meat products, milk & dairy, oil & fat products, grains, fresh herbs, nuts & seeds, fertilisers, pasta & pasta products and animal feeds	Benzoic Acid	AOAC 963.19	Solvent Extraction & Titration
	Total Soluble Solid	APHA 2540B	Brix Refractometry & Titrimetry
	Sugar	AOAC 925.35	Lane and Eynon Copper-Reduction Method
	Specific Gravity	AOAC 925.22	pcynometry
	Total Acid Value	AOAC 940.28	Acid-base Titrimetry
	Free Fatty Acid	AOAC 940.28	Acid-base Titrimetry
	Refractive Index	AOAC 921.08	Brix Refractometry
	Acid Insoluble Ash	AOAC 971.23	Gravimetry method
	Iodine in table salt	AOAC 925.56	Titrimetric method
	Titratable Acidity	AOAC 942.15	Acid-base Titrimetry
	Sodium Chloride	AOAC 937.09	Argentometric Titration
Brix	Brix	Refractometry	
MICROBIOLOGICAL ANALYSIS			
For Water: Portable/drinking/ tap water, Borehole water, River water, spring water, Sewage/waste water, Effluent water, Influent water, Surface and ground water.	E.coli	APHA 9221E,	Pour plate
	Total Coliforms	APHA 9222B,	Pour plate
	Yeast & Mould	APHA 9610B,	Pour plate
	Salmonella	APHA 9260B,	Pour plate
	Shigella	APHA 9260E,	Pour plate
	Total Plate Count	APHA 9215B,	Pour plate
For FOOD: Vegetables, fruits, infant formulas, meat and meat products, milk & dairy, oil & fat products, grains, fresh herbs, nuts & seeds, fertilisers, pasta & pasta products and animal feeds.			