



Certificate of Accreditation

This is to certify that

ALFA LABORATORIES LIMITED

PLOT 11B, AMUWO ODOFIN INDUSTRIAL ESTATE, JOAS HOUSE (ADJACENT TO T-TIME PETROL STATION, FORMERLY TOTAL), APAPA-OSHODI EXPRESSWAY, LAGOS.

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. T0020

Issue date: **MARCH 27, 2025**
Valid through: **MARCH 26, 2027**

Scope of Accreditation
Chemical Testing Laboratory
ALFA LABORATORIES LIMITED

PLOT 11B, AMUWO ODOFIN INDUSTRIAL ESTATE, JOAS HOUSE (ADJACENT TO T-TIME PETROL STATION, FORMERLY TOTAL), APAPA-OSHODI EXPRESSWAY, LAGOS

Schedule NO.: T0031A

Issue No. 2: 27 03, 2025

Valid to : 26 03, 2027

Material or Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications, Techniques/Equipment Used
CHEMICAL Water (Borehole, Waste/Effluent, Polluted, Surface/Ground)	Turbidity	ASTM D6855-03 Turbidity meter
	pH	AOAC 973.41 p H Meter
	Total Dissolved Solids (TDS)	AOAC 920.193 TDS Meter
	Chloride	Titrimetric Method Argentometric
	Calcium	AOAC 999.11 MP-AES
	Magnesium	AOAC 999.11 MP-AES
	Oil and Grease	ASTM D4281-01 Gravimetry
	Conductivity	AOAC 973.40 Conductivity Meter
	Total Alkalinity	ASTM D1067 Titrimetric
	Total Hardness	AOAC 973.52 Titrimetric
	Chemical Oxygen Demand (COD)	ASTM D1252-00 Titrimetric
	Total Suspended Solids (TSS)	AOAC 920.193A Oven/ Analytical Balance
	Dissolved Oxygen (DO)	ASTM D888-03 UV/ Visible Spectrometer
	Flouride	AOAC 939.11 UV/ Visible Spectrometer
	Biological Oxygen Demand (BOD5)	APHA 52103 Dissolved Oxygen Meter
	Nitrates	ASTM D992 UV/ Visible Spectrometer
	Sulphate	ASTM D516 UV/ Visible Spectrometer
	Iron, Cadmium, Manganese, Copper, Lead	AOAC 999.11 (for each) MP-AES
	Total Organic Compounds	AOAC International Journal 2020 Titrimetric
	Phosphate	AOAC 965.17 UV/ Visible Spectrometer
	Ammonium	AOAC 973.49 Titrimetric
	Colour (True Colour Unit)	AOAC 960.44 UV/ Visible Spectrometer
	Polyaromatic Hydrocarbons (PAH)	AOAC 969.21 GC-FID
	Total Nitrogen	AOAC 920.87 Kjeldahl
	BTEX	AOAC 969.21 (AOAC Int. Journal 2020) GC/FID
	TFH-Aliphatic (Total Petroleum Hydrocarbons)	AOAC 969.21 (AOAC Int. Journal 2020) GC/FID

Material or Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications, Techniques/Equipment Used
FOOD PRODUCTS Flour, Grains, Nuts, Infant Cereals, Vegetable Oil, Milk, Animal Feed, Refined Sugar, Salt, Palm Oil, Bread, Pasta, Semolina	Energy (By Calculation)	Chemical Analysis of Foods (David Pearson) Calculation
	Moisture	AOAC 925.10 Oven
	Ash Content	AOAC 923.03 Furnace
	Protein	AOAC 920.87 Kjeldahl
	Fat (Crude)	AOAC 922.06 Extraction
	Carbohydrates	AOAC 986.25(E) Calculation
	Copper, Sodium, Cadmium, Arsenic	AOAC 999.11 (for each) MP-AES
	Crude Fibre	AOAC 962.09 Gravimetric
	Acid Value & Free Fatty Acid (Fats/Oils)	AOAC 969.17 Titrimetric
	Peroxide Value	AOAC 965.33 Titrimetric
	Saponification Value	AOAC 920.160 Titrimetric
	Vitamin A, B2, B5, B6, B9, C	AOAC 2001.13, 2004.07 (Agilent LC/MS) HPLC
	Total Aflatoxins (B1, B2, G1, G2)	Agilent-AOAC 2007 HPLC
	Ochratoxin A	AOAC 2000.16 HPLC
	Fumonisin	AOAC 2001.04 HPLC
	Pesticide Residues	AOAC 2007.01 GC-FID
	Iodine	AOAC 925.56B Titrimetric
	Melamine	AOAC 991.20 Kjeldahl
MICROBIOLOGY: FOOD CONVENTIONAL Food & Water (Borehole, Drinking, Environmental, Sewage, Bottled)	Total Coliform Count	ISO 4832:2006 E Pour Plate Colony Counter
	Yeast and Mould	ISO 21527-1:2008 Spread Plate Colony Counter
	Total Plate Count	ISO 4833 Pour Plate Colony Counter
	E. coli	ISO 16649-3:2005 Pour Plate Colony Counter
	Salmonella	AOAC 967.27 Streaking Method Colony Counter
	Staphylococcus aureus	APHA 9213 Pour Plate Colony Counter
	Vibrio cholerae	AOAC 988.20 Streaking Method Colony Counter
	Shigella	AOAC 967.27 Streaking Method Colony Counter
	Bacillus cereus	AOAC 966.23 Spread plate Colony Counter
	Faecal Streptococci	APHA 9230B Pour Plate Colony Counter
	Pseudomonas aeruginosa	APHA 9215B Pour Plate Colony Counter
	Listeria monocytogenes	AOAC 993.12 Streaking method Colony Counter
	Clostridium perfringens	APHA 9221D Pour Plate Colony Counter

Material or Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications, Techniques/Equipment Used
Food & Water (Borehole, Drinking, Environmental, Sewage, Bottled)	Sulphate Reducing Bacteria (SRB)	ISO 15213:2003 Most probable Number Method Spectrophotometer
	Enterobacteria	ISO 2152812 Pour Plate Colony Counter