



Type: Initial Accreditation



Certificate of Accreditation

This is to certify that

EMACHY CHEMICALS AND LABORATORY SERVICES

183 EGBEDA-IDUMU, ABULE-ODU BUS STOP,
EGBEDA, LAGOS STATE, NIGERIA

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. T0023

Issue date: April 11, 2024
Valid through: April 10, 2026

Scope of Accreditation

Chemical Testing Laboratory EMACHY CHEMICALS AND LABORATORY SERVICES

183 EGBEDA-IDUMU, ABULE-ODU BUS STOP,
EGBEDA, LAGOS STATE, NIGERIA

Schedule NO.: T0038A

Issue No. 2: 11 04, 2024

Valid to : 10 04, 2026

Materials/ Products Tested	Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications/Equipment / Techniques Used	
	Microbiological Testing		
Food, Drugs, Cosmetics, Water/Effluent Water, Herbal product, Environmental samples, Soil	Enumeration of Aerobic Mesophilic Count	AOAC 966.23C	Pour Plate Method
	Enumeration of Staphylococcus spp	APHA 9213	Spread Plate Method
	Enumeration of Coliforms	AOAC 940.37C	Streak Plate Method
	Enumeration of Escherichia coli	AOAC 966.24	Pour Plate Method
	Enumeration of Salmonella <i>sp</i>	APHA 9260B	Streak Plate Method
	Enumeration of Shigella <i>sp</i>	APHA 9260	Streak Plate Method
	Enumeration of Mould	APHA 9610B	Pour Plate Method
	Enumeration of Yeast	AOAC 940.37E	Pour Plate Method
	Enumeration of Vibrio <i>spp</i>	BAM Ch. 9, 2001	Pour Plate Method
	Enumeration of Steptococcus faecalis	APHA 9230B	Streak Plate Method
	Enumeration of Pseudomonas aeruginosa	APHA 9213F	Pour Plate Method
	Enumeration of Total Plate Count	AOAC 966.23C	Pour Plate Method
	Enumeration of Listeria <i>spp</i>	AOAC 993.12	Pour Plate Method
	Enumeration of Clostridium perfringens	AOAC 976.30	Pour Plate Method
	Enumeration of Steptococcus <i>spp</i>	APHA 9230B	Streak Plate Method
Enumeration of Bacillus spp	AOAC 980.31	Spread Plate Method	
Enumeration of Enterobacteriaceae <i>spp</i>	ISO 21528:2017	Pour Plate Method	
	Physico-Chemical Testing		
	pH	AOAC 943.02	pH meter
	Electrical Conductivity	APHA 2510B	Conductivity meter
	Turbidity	APHA 2130	Turbidity meter
	Total suspended solids	APHA 2540B	Calculation
	Total Hardness	APHA 2340C	Titrimetric
	Phenolphthalein Alkalinity	APHA 2320B	Titrimetric
	Total Alkalinity	APHA 2320B	Titrimetric

Water /Effluent water	Total Dissolved Solid	AOAC 957:16	Electrometric
	Total Solid	APHA 2540B	Gravimetric
	Total Acidity	APHA 2310B	Titrimetric
	Residual Chlorine	APHA 4500-Cl	Titrimetric
	Chloride	APHA 4500B	Titrimetric
	Nitrate	APHA 4500-NO ₃	Spectrophometer
	Nitrite	APHA 4500A	Spectrophometer
	Sulphate	APHA 4500C	Spectrophometer
	Phosphate	APHA 4500C	Spectrophometer
	Calcium	APHA 3500B	Titrimetric
	Total Iron	APHA 3500-Fe	Spectrophometer
	Magnesium	APHA 3500B	Calculation / Titrimetric
	Oil/Grease	APHA 5520B	Extraction/ Gravimetric
	Biological Oxygen Demand	APHA 5210	Titrimetric
	Chemical Oxygen Demand	APHA 5220C	Titrimetric /Reflux
	Food	Total Nitrogen	APHA 4500 -BN
pH		AOAC 943.02	pH meter
Total Acidity		AOAC 947.05	Titrimetric
Total Nitrogen		AOAC 984:13,955.04,	Kjeldahl method 200.11
Moisture		AOAC 925.45	Oven Drying
Fat		AOAC 905.25	Rose Gottlieb Method
Ash		AOAC 923:03	Muffle Furnace
Protein		AOAC 984:13,955.04,	Kjeldahl method 200.11
Carbohydrate		AOAC 986.25	Calculation by Difference
Energy Value		AOAC 930.25, 920.87	Calculation
Crude Fiber		AOAC 962.09	Gravimetric
Sugar content		AOAC 968.28	Lane Eynon method
Reducing Sugar		AOAC 968.28	Lane Eynon method
Sugar as Brix		AOAC 932.14C	Refractometer
Total Soluble Solids	AOAC 932.12	Calculation	

	Benzoic Acid	AOAC 963.19	Extraction / Titrimetric
	Titration Acidity	AOAC 940.15A	Titrimetric
	Acid Insoluble Ash	AOAC 941.12	Muffle furnace
	Water Soluble Ash	AOAC 941.12	Muffle furnace
	Alcohol Content	AOAC 920.57	Distillation
	Specific Gravity	AOAC 945.06C	Gravimetric
	Acid Value	AOAC 969.17	Titrimetric
	Chloride	APHA 4500B	Titrimetric
	Total Iron	APHA 3500-Fe	Spectrophotometer
	Calcium	APHA 3500B	Titrimetric
	Iodine content	AOAC 925.56	Iodometric titration
	Saponification Value	AOAC 920.160	Titrimetric
	Iodine value	AOAC 925.56	Titrimetric
	Total Acidity	AOAC 947.05	Titrimetric
Cosmetics	pH	AOAC 943.02	pH meter
	Ash	AOAC 923.03	Muffle Furnace
	Oil content	AOAC 905.25	Rose Gottlieb Method
	Saponification Value	AOAC 920.160	Titrimetric
	Moisture	AOAC 925.45	Oven Drying
	Total Solid	AOAC 925.45	Oven Drying
	Specific Gravity	AOAC 945.06C	Gravimetric
Herbal product	pH	AOAC 943.02	pH meter
	Total Acidity	AOAC 947.05	Titrimetric
	Moisture	AOAC 925.45	Oven Drying
	Total Solid	AOAC 925.45	Oven Drying
Drugs	pH	AOAC 943.02	pH meter
	Total Acidity	AOAC 947.05	Titrimetric
	Moisture	AOAC 925.45	Oven Drying
	Total Solid	AOAC 925.45	Oven Drying

Environmental samples, Soil	Total Acidity	AOAC 947.05	Titrimetric
	Moisture	AOAC 925.45	Oven Drying
	Total Iron	APHA 3500-Fe	Spectrophometer
	Chloride	APHA 4500B	Titrimetric
	Nitrate	APHA 4500-NO ₃	Spectrophometer
	Sulphate	APHA 4500C	Spectrophometer
	Phosphate	APHA 4500C	Spectrophometer