



Certificate of Accreditation

This is to certify that

MULT-CONSULT LABORATORIES LIMITED

13 ALLIANCE LANE, HOMELAND ESTATE, OFF EMERALD RD, OPP. DEEPER LIFE CAMP,
MOWE, 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. T0007

Effective Date: **September 4th, 2026**
Certificate Expires: **September 3rd, 2030**
Reaccreditation Date: **March 3rd, 2030**

Scope of Accreditation

Chemical and Microbiology Testing Laboratory

MULT-CONSULT LABORATORIES LIMITED

13 ALLIANCE LANE, HOMELAND ESTATE, OFF EMERALD RD, OPP. DEEPER LIFE CAMP, MOWE, OGUN STATE

Reference No.: TL0018A

First Accreditation Date: 12 07, 2021

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Valid to : 3 09, 2030

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED
Spices/Seasoning, Flour/Grains, Milk Products, Cocoa Products, Animal Feeds, Processed Vegetables/Fruits, Macaroni Products, Evaporated Milk, Infant Formula, Bread, Dried Milk, Cereal, Fats/Oils, Food Grade Salt, Refined Sugar, Bread, Cereal, Nuts and Nut Products.	Fat	AOAC 963.15 AOAC 922.06 AOAC 922.06 AOAC 905.02 AOAC 945.48 AOAC 989.05 AOAC 932.06 AOAC 925.12 (same as 922.06) AOAC 945.16 AOAC 935.38 AOAC 920.39C AOAC 948.22 Pearson 9 th Ed., 1991, Page 538, 562 ISO 110085:2008(E) Direct Hydrolysis (Solvent Extraction)
Spices/Seasoning, Flour/Grains, Milk Products, Animal Feeds, Cocoa Products, Dried Milk, Processed Vegetables/Fruits, Macaroni Products, Evaporated Milk, Infant Formula, Bread, Cereal,	Carbohydrates	AOAC 986.25 Calculation by difference (Pearson's Composition and Analysis of Food 9 th , 1991, Edition. Pg 5 Calculation
Spices, Flour/Grains, Milk Products, Animal Feeds, Cocoa Products, Vegetables/Fruits, Macaroni Products, Evaporated Milk, Infant Formula, Bread, Dried Milk, Cereal, Refined Sugar	Energy Value	Pearson's Composition and Analysis of Food 9 th Edition, 1991, Pg 5 Calculation
Butter, Spices, Flour/Grains, Milk Products, Nuts and Nut Products,	Salt	AOAC 971.27 AOAC GB 5413.24 part 2

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED	
Processed Fruits & Vegetables		AOAC 960.29 AOAC 986.26 AOAC 950.52	Titrimetric
Honey	Reducing Sugar	AOAC 920.183	Titrimetry
Aflatoxin in Food Products	Total Aflatoxins, B1, B2, G1, G2	AOAC-RI 050901	ELISA
MICROBIOLOGICAL TESTING			
Foods, Environmental and Water Samples	Aerobic Plate Count	FDA BAM Chapter 3	Pour Plate Method
	Enterobacteriaceae	FDA BAM Chapter 28	Pour Plate Method
	Staphylococcus aureus	FDA BAM Chapter 12	Pour Plate Method
	Yeast and Mould	FDA BAM Chapter 18	Pour Plate Method
	Listeria	FDA BAM Chapter 10	Pour Plate Method
	Salmonella	FDA BAM Chapter 5	Pour Plate Method
	Clostridium perfringens	FDA BAM Chapter 16	Pour Plate Method
	Vibrio	FDA BAM Chapter 9	Pour Plate Method
	Coliforms & E. coli	FDA BAM Chapter 4	Pour Plate Method
	Bacillus Cereus	FDA BAM Chapter 14	Pour Plate Method Spread Plate Method
	Streptococcus Faecalis	FDA BAM Chapter 4	Pour Plate Method
	Klebsiella Pneumoniae	FDA BAM Chapter 4	Pour Plate Method
	Pseudomonas	BIS 13428-2005	Pour Plate Method
	Legionella	ISO 11731-2:2004	Pour Plate Method
	Aerobic Plate Count	ISO 4833-2:2013	Pour Plate Method
	E. coli	ISO 4831.2:2006	Pour Plate Method
	Clostridium perfringens	ISO 7937:2004	Pour Plate Method
	Salmonella	ISO 6579-1:2017	Pour Plate Method
	Staphylococcus aureus	ISO 6888-1:2021	Pour Plate Method
Foods, Environmental and Water Samples	Yeast and Mould	ISO 21527-1:2008	Pour plate Method
	Enterobacteriaceae	ISO 21528:2017	Pour Plate Method Spread Plate Method

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED	
Foods, Environmental and Water Samples	Listeria monocytogenes	ISO 11290-2:2017	Pour Plate Method
	Aerobic Plate Count	AOAC 966.23	Pour Plate Method
	Coliforms & E. coli	AOAC 966.24	Pour Plate Method
	Clostridium perfringens	AOAC 976.30	Pour Plate Method
	Streptococcus faecalis	AOAC 966.24	Pour Plate Method
	Staphylococcus aureus	AOAC 975.55	Pour Plate Method
	Yeast and Mould	AOAC 997.02	Pour plate Method
	Vibrio cholerae	AOAC 988.20	Pour Plate Method
	Listeria monocytogenes	AOAC 992.18	Pour Plate Method
	Bacillus cereus	AOAC 980.31	Pour Plate Method Spread Plate Method
	Salmonella species	AOAC 967.25	Pour Plate Method
WATER & EFFLUENT WATER			
WATER AND WASTEWATER	Phenolphthalien Alkalinity	APHA 2320 B	Titrimetric Method
	Calcium Hardness	APHA 3500-Ca B.	Titrimetric Method
	Chloride	ASTM 512-67 APHA 4500 Cl-B & NIS 554:2007	Argentometric Titration
	Copper	Lamotte Smart 2 Colorimeter Code 3619	Cuprizone Method
	Iron	Lamotte Smart 2 Colorimeter Code 3668-SC	Phenanthroline Method
	Magnesium Hardness	APHA 3500-Mg B	Calculation from Total Hardness and Calcium Hardness
	Total Alkalinity	APHA 2320 - CaCO ₃ B	Titrimetric Method
	Total Hardness	AOAC 973.52 APHA 2340-C	EDTA Titrimetric Method

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED
	Arsenic	Arsenic Test Kit (ITS Part #: Silver diethyldithiocarbamate 481196-D ₂ , E, F, 2)
LIQUID MILK		
LIQUID MILK	Total solids	Pearson 9 th Ed., 1991, pg. 562
	Total solids	AOAC 990.20
	Total solids	ISO 6731
	Total Ash	Pearson 9 th Ed., 1991, pg. 563
	Total Ash	AOAC 945.46
	Acid insoluble Ash	Pearson 9 th Ed., 1991, pg. 14
	Sodium Chloride	Pearson 9 th Ed., 1991, pg. 14
	Acidity	Pearson 9 th Ed., 1991, pg. 539 & 563
	pH	AOAC 981.12
	Specific Gravity	AOAC 925.22
	Fat content	Pearson 9 th Ed., 1991, pg. 538 & 562
	Fat content	AOAC 989.05
	Reducing & Non-reducing Sugar (Total Sugar)	Pearson 9 th Ed., 1991, pg. 562 & 202
	Non-reducing Sugar (Sucrose)	Pearson 9 th Ed., 1991, pg. 562
	Lactose	Pearson 9 th Ed., 1991, pg. 563
	Total Carbohydrate	Pearson 9 th Ed., 1991, pg. 680 & AOAC 986.25
	Acid value	AOAC 969.17
	Fat	AOAC 905.02
	Energy Value	Pearson 9 th Ed., 1991, pg. 680, 5
	Foreign Matter	Pearson 9 th Ed., 1991, pg. 547
	Extraneous Matter	AOAC 960.49

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED
DRIED MILK		
DRIED MILK	Lactose	Pearson 9 th Ed., 1991, pg. 563
	Lactose	AOAC 896.01
	Acid insoluble ash	Pearson 9 th Ed., 1991, pg. 14
	Sodium chloride	AOAC 986.26
	Titrateable Acidity	ISO 6091:2010 & AOAC 937.05
	pH	AOAC 981.12 & IS 11978
	Total carbohydrates	Pearson 9 th Ed., 1991, pg. 680 & AOAC 986.25
	Reducing & Non-reducing Sugar (Total Sugar)	Pearson 9 th Ed., 1991, pg. 562 & 202
	Non-reducing Sugar (Sucrose)	Pearson 9 th Ed., 1991, pg. 562, 202 & 196
	Lactose	Pearson 9 th Ed., 1991, pg. 563, 196
	Sucrose	AOAC 920.82
	Fat content	AOAC 932.06
	Extraneous Matter	AOAC 960.49.
	Solubility index	Pearson 9 th Ed., 1991, pg. 567
	Energy value	Pearson 9 th Ed., 1991, pg. 5, 680
CEREALS/STARCH/FLOUR/GRAINS		
	Dry matter in Starch	ISI 05-2e (ISO 1741)
	Ash in Flour	AOAC 923.03; ISI 02-1e
	Hydrocyanic Acid	ISO 2164
	Acetyl Content	ISI 14-2e, JECFA
	pH	AOAC 943.02 & ISI 11-1e & ISI 26-5e

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED
CEREALS/STARCH/FLOUR/GRAINS	Reducing power	ISI 27-1e
	Fat	AOAC 922.06
	Protein	AOAC 920.87
	Carboxyl group	ISI 10-2e & ISO 11214
	Carbohydrate	Pearson 9 th Ed., 1991, pg. 5
	Uric Acid	IS 4333
	Gluten	Pearson 9 th Ed., 1991, pg. 292
	Foreign matter	IS 4333
	Energy value	Pearson 9 th Ed., 1991, pg. 5, 680
	Vitamin A (Retinol) in premix	AOAC 974.29
	Alkaline Retention Capacity	AOAC 935.35, AACC 56-10
	Sulphated Ash	ISI 03-1e & ISO 5809
	Diastatic Activity and Maltose Value	AOAC 932.04
	Sedimentation Value	AACC Method 56-60.01
	Whiteness by Reflection	ISI 44-1e
FATS AND OILS		
FATS AND OILS	Moisture	To probe standard method
	Acid Value/FFA	ISO 660
	Acid Value/FFA	AOAC 940.28,
	Acid Value/FFA	AOAC 969.17
	Free Fatty acids	AOAC 940.28
	Peroxide value	AOAC 965.33
	Specific gravity	AOAC 920.212
	Relative density (Apparent)	AOAC 985.19
	Unsaponifiable matter	AOAC 933.08
	Insoluble impurities	ISO 603
	Iodine value	Pearson's composition and analysis of food 9 th edition.

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FATS AND OILS		Pg. 626-627
	DOBI	ISO 1793
	Titre	ISO 935
	Soap	AOAC 926.02
	Carotenoid Content	BS 684, Section 2.2
	Thiobarbituric Acid Value	AOCS Cd 19-90
	Vitamin A	AOAC 974.29
	Vitamin K	AOAC 992.27
	Vitamin E (Tocopherol)	AOAC 971.30
PROCESSED FRUITS AND VEGETABLES		
PROCESSED FRUITS AND VEGETABLES	Total Solids	AOAC 985.26
	Total Ash	AOAC 940.26
	Brix/Sugar	AOAC 932.12
	Sodium Chloride	AOAC 971.27
	Specific Gravity	AOAC 963.13
	Lycopene	European journal of advanced research in biological and life sciences Vol. 6 No. 1, 2018
	pH	AOAC 981.12
	Fat	AOAC 930.09
	Total Sugar	AOAC 925.35
	Titrateable Acidity	AOAC 942.15
	Soluble Solids	AOAC 932.12, AOAC 932.14C
	Vitamin C	AOAC 967.21
	Vitamin A	AOAC 974.29
	Residue/Mineral impurities	AOAC 971.33
	Fruit content	Pearson 9 th Ed., 1991, Page 271-272

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED
SPICES/SEASONINGS/CHILI		
SPICES/SEASONINGS/CHILI	Total Ash	ISO 928
	Acid Insoluble Ash	ISO 930
	Non-volatile Ether Extract	ISO 1108
	Cold Water Extract	ISO 941
	Alcohol Soluble Extract	AOAC 898.03
	Extraneous Matter	ISO 927
	Foreign Matter	ISO 927
	Crude Fibre	AOAC 962.09
	Scoville Heat Unit	ISO 3513
	Capsaicin	ISO 7543-2, ISO 7543-1
	Insect Filth	AOAC 978.22
	Rodent Filth	AOAC 978.22
SOFT / ENERGY DRINKS		
SOFT / ENERGY DRINKS	Total solids	AOAC 950.27
	Total Ash	AOAC 950.14
	Specific Gravity	AOAC 950.28
	Titrateable Acidity	AOAC 942.15
	pH	AOAC 981.12
	Brix	AOAC 932.14C
	Reducing Sugar	AOAC 950.29
	Caffeine	Pearson 9 th Ed., 1991, pg. 273
	Caffeine	AOAC 967.11
	Caffeine	AOAC 962.13
	Vitamin C	Pearson 9 th Ed., 1991, pg. 264
	Soluble Solids	AOAC 932.12
	Alkalinity of Insoluble Ash of non-alcoholic Beverages	AOAC 900.02E

MATERIALS OR PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED / RANGE OF MEASUREMENTS	STANDARD SPECIFICATIONS, TECHNIQUES/EQUIPMENT USED
SOFT / ENERGY DRINKS	Alkalinity of Soluble Ash of non-alcoholic Beverages	AOAC 900.02E
	Soluble Solids	AOAC 932.12
	Saccharin	Pearson 9 th Ed., 1991, pg. 269-270
	Saccharin	AOAC 934.04
	Benzoic Acid	Pearson 9 th Ed., 1991, pg. 270
	Benzoic Acid	AOAC 934.19
	Benzoic Acid	AOAC 963.19
	Fruit juice content	Pearson 9 th Ed., 1991, pg. 271 - 272
	Quinine	Pearson 9 th Ed., 1991, pg. 272
	Sugar (Reducing & Non-Reducing)	AOAC 923.09