Republic of the Philippines
Professional Regulation Commission
Manila

The
PROFESSIONAL REGULATORY BOARD OF CHEMISTRY

hereby grants this

Certificate of Authority to Operate

Pursuant to the powers vested in the Board of Chemistry under Sections 7g and 36 of Republic Act No. 10657, the

DOST – ITDI STANDARDS AND TESTING DIVISION

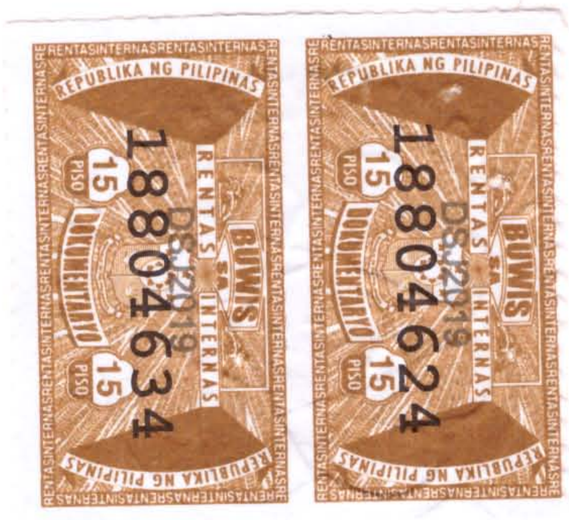
DOST Compound, General Santos Ave., Bicutan, Taguig City

has been found to meet the requirements of the said Act and the Rules and Regulations of the Board.

In view whereof, this Certificate of Authority to Operate No. **010** *is issued with all the rights and privileges appertaining thereto, this* 31st *day of* August *20*22*, at Manila, Philippines.*

This Certificate shall be valid for three (3) years from the date of issue unless earlier revoked or suspended by the Board.

SN:AA 000029



ADORACION P. RESURRECCION
Board Chairperson

Approved:

JOSE Y. CUETO, JR.
Acting Commission Chairman

ACD-CHM-02
Rev.00
June 29, 2021

Republic of the Philippines
Department of Agriculture
BUREAU OF ANIMAL INDUSTRY
Visayas Avenue, Diliman, Quezon City

Animal Welfare Registration

CERTIFICATE

Issued to

DOST – ITDI
(BIOLOGICAL RESEARCH & TESTING FACILITY)

LAF - 0802

General Santos Avenue, Bicutan, Taguig

This facility is registered with the Bureau of Animal Industry pursuant to the provisions of the Republic Act 8485 otherwise known as Animal Welfare Act of 1998, as amended by Republic Act 10631

Animal Facility:	Date of Certification:	Valid until:
Laboratory Animal Facility	29 June 2021	28 June 2024

Approved by Authority of the Director:

SAMUEL B. ANIMAS , DVM, PhD
OIC, Assistant Director,
Regulations and Disease Control., BAI

Republic of the Philippines
Department of Agriculture
BUREAU OF ANIMAL INDUSTRY
Visayas Avenue, Diliman, Quezon City

Animal Welfare Registration

CERTIFICATE

Issued to

DOST – ITDI
(LABORATORY ANIMAL RESOURCE CENTER)

LAF - 0801
General Santos Avenue, Bicutan, Taguig

This facility is registered with the Bureau of Animal Industry pursuant to the provisions of the Republic Act 8485 otherwise known as Animal Welfare Act of 1998, as amended by Republic Act 10631

Animal Facility:	Date of Certification:	Valid until:
Laboratory Animal Breeding Facility	29 June 2021	28 June 2024

Approved by Authority of the Director:

SAMUEL B. ANIMAS , DVM, PhD
OIC, Assistant Director,
Regulations and Disease Control., BAI

PNP CSG, FEO Form Series 2002
* Explosive's License *

ORIGINAL COPY

Republic of the Philippines
NATIONAL POLICE COMMISSION
PHILIPPINE NATIONAL POLICE, CIVIL SECURITY GROUP
FIREARMS AND EXPLOSIVES OFFICE
Camp BGen Rafael T Crame, Quezon City

EXPLOSIVES/EXPLOSIVE INGREDIENTS/ CONTROLLED CHEMICALS

PURCHASER'S LICENSE

DOST - CERTIFIED ANALYTICAL/TESTING LABORATORIES

RENEWAL/AMENDMENT

License No. **PMA16-211114-03717**

Date Issued	FEB 16 2023	*Expiry Date*	FEB 15 2024

Company Name **INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI) – DEPARTMENT OF SCIENCE AND TECHNOLOGY**

Licensee **ANABELLE V. BRIONES, Ph. D – DIRECTOR**

Address Office **METROLOGY BUILDING, DOST COMPOUND, GENERAL SANTOS AVENUE BICUTAN, TAGUIG CITY, METRO MANILA**

Storage Facility Address **METROLOGY BUILDING, DOST COMPOUND, GENERAL SANTOS AVENUE BICUTAN, TAGUIG CITY, METRO MANILA**

Control No. CC-PL-112242 05

KIND	QUANTITY	REMARKS
EXPLOSIVES/EXPLOSIVE INGREDIENTS:		
1. LEAD NITRATE	~~20 L~~	
2. BISMUTH NITRATE	~~20 L~~	
HIGH RISK CONTROLLED CHEMICALS:		
1. AMMONIUM NITRATE, 100%	~~8~~ kg	
2. NITRIC ACID, 65%	~~225~~ L	
3. NITRIC ACID, RED FUMING, 100%	~~25~~ L	
4. POTASSIUM NITRATE, 100%	~~3~~ kg	TO BE USED AS REAGENTS ON RESEARCH, LABORATORY TESTS AND ANALYSIS
5. POTASSIUM PERMANGANATE. 100%	~~5~~ kg	
6. SODIUM NITRATE, 100%	~~3~~ kg	
LOW RISK CONTROLLED CHEMICALS:		
1. CUPRIC NITRATE TRIHYDRATE, 100%	~~3~~ kg	
2. FERRIC NITRATE NONAHYDRATE, 100%	~~3~~ kg	
3. HYDROGEN PEROXIDE, 30-50%	~~80~~ L	
4. NICKEL NITRATE, 90-100%	~~3~~ kg	
STANDARD SOLUTIONS WITH HIGH RISK CONTROLLED CHEMICALS:		
1. **ARSENIC STANDARD SOLUTION** With Nitric Acid (>=1%-<3%)	~~3~~ kg	
2. **CADMIUM STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	~~3~~ kg	
3. **CALCIUM STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	~~3~~ kg	

Not Valid Without Dry Seal

SBR No. : E0011102233
Amount : P 1,000.00
Date : November 10, 2022

PNP CSG, FEO
Explosives Management Division
License and Permit Section
AMA/ALC/jdc@ 09982480120/09982747450

4. **COBALT STANDARD SOLUTION** With Nitric Acid (>=1%-<3%)	3 kg	
5. **COPPER STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
6. **IRON STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
7. **LEAD STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
8. **MAGNESIUM STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
9. **MANGANESE STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
10. **MERCURY STANDARD SOLUTION** With Nitric Acid (>=1%-<20%)	3 kg	
11. **NICKEL STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
12. **SEAWATER CERTIFIED REFERENCE MATERIAL** With Nitric Acid 2-5%	3 kg	
13. **TRACE ELEMENTS IN WATER** With Nitric Acid 2%	3 kg	
14. **ZINC STANDARD SOLUTION** With Nitric Acid (>=1%-<5%)	3 kg	
15. **ANIONS REFERENCE STANDARD** With 1% - 10% Nitrate	3 L	
16. **ANION CERTIFIED REFERENCE MATERIAL (CRM)** With 1% - 10% Nitrate	3 L	
17. **CALCIUM, IRON, MAGNESIUM, SODIUM, POTASSIUM & ZINC (MINERALS) STANDARD SOLUTIONS** With Nitric Acid (>=1%-<5%)	3 L	
18. **CERTIFIED REFERENCE MATERIALS (CRM) AND PROFICIENCY TESTING (PT) MATERIALS FOR TRACE METALS IN SOIL, SEDIMENTS, FISH, CEMENT, ASH, FOOD AND AGRICULTURAL PRODUCTS** With 1-10% Nickel Nitrate	3 L 2 kg	**TO BE USED AS REAGENTS ON RESEARCH, LABORATORY TESTS AND ANALYSIS**
19. **CERTIFIED REFERENCE MATERIAL (CRM) FOR TRACE METALS IN SOIL, FISH AND AGRICULTURAL PRODUCTS** With 1-10% Nickel Nitrate	3 kg	
20. **MULTI-ELEMENT REFERENCE STANDARD SOLUTIONS** With Nitric Acid (>=1%-<5%)	3 L	
21. **METALS IN SOIL CERTIFIED REFERENCE MATERIAL (CRM) AND PROFICIENCY TESTING (PT) MATERIAL (540), METALS IN SOIL, PRIORITY POLLUTION** including 1-10% Ferric Nitrate and 1-10% Nickel Nitrate	2 kg	
22. **NITRITE REFERENCE STANDARD SOLUTIONS** With Nitric Acid (>=1%-<5%)	3 L	
23. **SODIUM AND POTASSIUM STANDARD SOLUTIONS** With Nitric Acid (>=1%-<5%)	3 L	
24. **WATER SUPPLY (WS) WATER POLLUTION (WP) METALS CERTIFIED REFERENCE MATERIAL (CRM) AND PROFICIENCY TESTING (PT) MATERIAL (697), METALS, Potable WatR** including 0.1-10% Nitric Acid	3 L	
25. **WATER SUPPLY (WS)/WATER POLLUTION (WP) TRACE METALS CERTIFIED REFERENCE MATERIAL AND PROFICIENCY TESTING (PT) MATERIAL (CRM) (500), TRACE METALS, WasteWatR** including 0.1 - 10% Nitric Acid	3 L	
26. **WATER SUPPLY (WS)/WATER POLLUTION (WP) MERCURY CERTIFIED REFERENCE MATERIAL (CRM) AND PROFICIENCY TESTING (PT) MATERIAL (514), MERCURY, WasteWatR** including 0.1 - 10% Nitric Acid	3 L	
27. **TRACE METALS CERTIFIED REFERENCE MATERIAL (CRM) AND PROFICIENCY TESTING (PT) MATERIAL (740), TRACE METAL, Ready-to-Use WasteWatR** including 0.1 - 10% Nitric Acid	3 L	

-X-X-X-

Aforementioned quantities of controlled chemical/s is/are the maximum amount that the licensee can purchase and possess which can be replenished at any one time to include stock on hand.

-X-X-X- -X-X-X-

Allowed to purchase stated controlled chemical/s as reflected in this Purchaser's License within the maximum allowable quantity without the necessary permit. (5.5.1 IRR on Controlled Chemicals)

Subject to the condition that the Licensee will safely keep the said controlled chemical/s and will faithfully comply with all the laws and regulations relating to controlled chemical/s and that the licensee will not sell, loan or dispose the controlled chemical/s w/out permission from the Chief, PNP. Neither the controlled chemical/s nor this license is transferable.

FOR THE CHIEF, PHILIPPINE NATIONAL POLICE:

PAUL KENNETH T LUCAS
Police Colonel
Acting Chief, FEO

PSSG RONALD E VALLEJO
FEB 16 2023
Not Valid Without Dry Seal

SBR No. : E0011102233
Amount : P 1,000.00
Date : November 10, 2022

PNP CSG, FEO
Explosives Management Division
License and Permit Section
AMA/ALC/jdc@ 09982480120/09982747450

Republic of the Philippines
Department of Health
FOOD AND DRUG ADMINISTRATION
Civic Drive, Filinvest Corporate City, Alabang, Muntinlupa City, 1781 Philippines

This

Certificate of Accreditation

Laboratory Accreditation No. FDALA-2023-006

is awarded to

STANDARDS AND TESTING DIVISION, INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE, DEPARTMENT OF SCIENCE AND TECHNOLOGY

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

After having been assessed and found in compliance with FDA requirements and conditions for Laboratory Accreditation in accordance with the provisions of RA 9711, also known as the Food and Drug Administration Act of 2009.

SCOPE OF ACCREDITATION: CHEMICAL & MICROBIOLOGOCIAL TESTING

This Certificate is valid until **17 February 2026**, subject to continuing conformity with conditions and criteria for Laboratory Accreditation.

In testimony whereof, I have hereunto signed this Certificate this 13th day of March 2023.

BY AUTHORITY OF THE DIRECTOR GENERAL

JOCELYN E. BALDERRAMA, RPh, MBA
Director II, Common Services Laboratory

FDA-0124748

APPROVED SCOPE OF ACCREDITATION AND SIGNATORIES

STANDARDS AND TESTING DIVISION - INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
DOST Complex, Genral Santos Avenue, Bicutan, Taguig City

Chemical Testing-Organic

Products	Specific Tests	Method/Reference	Signatories
I. Foods			
.01 Cereals and Cereal Products			
1.Breakfast cereals 2.Cereal/cereal grains 3.Cultured seeds and grains 4.Soya flours concentrates and isolates 5.Flour, corn meal, corn grits, semolina 6.Frozen entrees containing rice or corn flour 7.Soy protein 8.Tofu 9.Pasta products and noodles (e.g. rice paper, rice vermicelli, soybean pastas and noodles) 10.Starch 11. Rice and other cereal products	Moisture	945.18, 925.09, 926.07, 926.06, 925.09B, 945.15, 935.29, 925.10, AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Cherrylean B. Bembenuto Anina Marielle SJ Medel Isaiah U Sta. Ana
	Ash	945.18, 923.03, 925.11, AOAC International Official Methods of Analysis 21st Edition, 2019	
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories Carbohydrates	DOST-FNRI Food Composition Table 1997	
	pH	935.39, 943.02, 940.23 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca) Iron (Fe) Sodium (Na) Potassium (K) Magnesium (Mg) Manganese (Mn) Zinc (Zn)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Arsenic (As)	AOAC OMA 986.15 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil John Cyrus O. Alfaro Isaiah U. Sta. Ana
.02 Nuts and Nut Products			
1.Peanut butter and other nut butters	Moisture	925.4, 945.39, 925.10 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bicol Leonard M. Montero Cherrylean B. Bembenuto
	Ash	950.49 AOAC International Official Methods of Analysis 21st Edition, 2019	

	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	Anina marielle S. Medel Isaiah U. Sta. Ana
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories	DOST-FNRI Food Composition Table 1997	
	Carbohydrates		
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Alma B. Cruz
	Sorbic Acid		
.03 Dairy Products			
1.All cheese made from pasteurized milk (cottage cheese, soft & semi-solid cheese) 2.Processed cheese spread 3.Ice cream and sherbet plain and flavoured 4.Ice cream with added ingredients 5.Flavored ice cream 6.Milk powders (whole, nonfat or filled milk, buttermilk, whey & whey protein concentrate) 7.Sweetened Condensed milk 8.Liquid Milk (evaporated or Ready To Drink) and Cream (Ultra Heat Temperature/sterilized) 9.Pasteurized milk 10.Pasteurized cream 11.Yogurt and other fermented milk	Moisture	969.35, 927.05, 926.08 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Cherrylean B. Bembenuto Anina Marielle SJ. Medel Isaiah U. Sta. Ana
	Ash	945.46, 920.108, 930.30, 920.115B, 920.117, 935.42, AOAC International Official Methods of Analysis 21st Edition, 2019	
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories	DOST-FNRI Food Composition Table 1997	
	Carbohydrates		
	Titratable Acidity	947.05, 920.124 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Alma B. Cruz
	Sorbic Acid		
.04 Meat, poultry and derived products			
1.Dried animal products 2.Meat paste and pate' (heat treated) 3.Cold cuts, frozen and chilled	Moisture	950.46B AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro

hotdogs, corned beef, luncheon meat 4.Packaged cooked cured/salted meat (ham, bacon) 5.Fermented, comminuted meat, not cooked (dry and semi-dry fermented sausages) 6.Cooked poultry meat, frozen to be re-heated before eating (e.g. prepared frozen meals) 7.Cooked poultry meat, frozen, ready-to-eat (e.g. turkey rolls) 8.Cured/smoked poultry meat 9.Dehydrated poultry products 10.Fresh/frozen raw chicken (during processing) 11.Meat products in hermetically sealed containers	Ash	920.153, 920.108 AOAC International Official Methods of Analysis 21st Edition, 2019	Aileen C. Bidol Leonard M. Montero Anina Marielle SJ Medel Cherrylean B. Bembenuto Isaiah U. Sta Ana
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories	DOST-FNRI Food Composition Table 1997	
	Carbohydrates		
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
.05 Fish and Fish Products including molluscs, crustaceans and echinoderms			
1.Fresh and frozen fish and cold-smoked 2.Pre-Cooked Breaded Fish 3.Frozen cooked crustaceans 4.Cooked, chilled & frozen crabmeat 5.Fish and shellfish products in hermitically sealed containers 6.Smoked, dried, fermented, and /or salted fish and fish products	Ash	938.08 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Anina Marielle SJ Medel Isaiah U. Sta. Ana Cherrylean B. Bembenuto
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calcium (Ca)	AOAC OMA 969.32 (d) (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
.06 Sugar and Sugar products			
1.Refined and raw sugars 2.Brown sugar 3.Sugar solutions and syrups 4.Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings) 5.Honey 6.Table-top sweeteners, including those containing high-intensity sweeteners	Moisture	925.45B AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Anina Marielle SJ. Medel Isaiah U. Sta. Ana Cherrylean B. Bembenuto
	Ash	900.02, 920.18 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories	DOST-FNRI Food Composition Table 1997	
	Carbohydrates		

	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca) Iron (Fe) Sodium (Na) Potassium (K) Magnesium (Mg) Manganese (Mn) Zinc (Zn)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
.07 Confectionary			
1.Cocoa powder 2.Chocolate products 3.Chocolate confectioneries (chocolate bars, blocks, bonbons) 4.Sugar confectioneries (hard and soft candies, toffees, caramel, fondants, creams, nougats and pastes)	Ash	900.02, 935.46 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Cherrylean B. Bembenuto Isaiah U. Sta. Ana Anina Marielle SJ. Medel
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Titratable Acidity	936.09 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca) Iron (Fe) Sodium (Na) Potassium (K) Magnesium (Mg) Manganese (Mn) Zinc (Zn)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
.08 Fruits, Jams, and Other Fruit Products			
1.Frozen fruits 2.Coconut (desiccated) 3.Sun dried fruits 4.Jams, jellies, marmalades 5.Fruit-based spreads 6.Candied fruits 7.Fruit preparations (pulp, purees, fruit toppings and coconut milk) 8.Fermented fruit products 9.Fruit fillings for pastries	Ash	940.26 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Isaiah U. Sta. Ana Cherrylean B. Bembenuto Anina Marielle SJ. Medel
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019	

	Titratable Acidity	942.15 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca) Iron (Fe) Sodium (Na) Potassium (K) Magnesium (Mg) Manganese (Mn) Zinc (Zn)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Benzoic Acid Sorbic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Alma B. Cruz
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil Aileen C. Bidol
.09 Vegetables and Vegetable Products			
1.Frozen vegetables 2.Dried vegetables 3.Vegetables in vinegar, oil, brine, or soybean sauce 4.Canned or bottled (pasteurized) or retort pouch vegetables 5.Fermented vegetables 6.Cooked or fried vegetables	Moisture	930.03, 971.28 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Anina Marielle SJ. Medel Isaiah U. Sta. Ana Cherrylean B. Bembenuto
	Ash	930.05, 925.51 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories Carbohydrates	DOST-FNRI Food Composition Table 1997	
	Calcium (Ca) Iron (Fe) Sodium (Na) Potassium (K) Magnesium (Mg) Manganese (Mn) Zinc (Zn)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Isaiah U Sta. Ana
	Benzoic Acid Sorbic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Alma B. Cruz
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil Aileen C. Bidol
0.10 Alcoholic Beverages			
1.Beer and malt beverages 2.Cider and perry 3.Grape wines 4.Wines other than grapes 5.Mead 6.Distilled spirits containing more than 15% alcohol 7.Aromatized alcoholic beverages	Ash	920.54, 920.67 AOAC International OfficialMethods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Isaiah U. Sta. Ana Anina Marielle SJ. Medel
	pH	960.19, 945.30, 945.10 AOAC International Official Methods of Analysis 21st Edition, 2019	

(e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	Titratable Acidity	960.19, 970.21b AOAC International Official Methods of Analysis 21st Edition, 2019	Cherrylean B. Bembenuto
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Alma B. Cruz
	Sorbic Acid		
0.11 Soft drinks and cordials			
Softdrinks, and Cordials	Ash	950.14, 920.67, 920.49 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Isaiah U. Sta. Ana Anina Marielle SJ. Medel Cherrylean B. Bembenuto
	Protein	Block Digestion - Kjeldahl TM-OCS- 307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Titratable Acidity	950.15, 935.57 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Alma B. Cruz
	Sorbic Acid		
0.12 Fruit juices, drinks and concentrates			
1.Fruit and vegetable juices 2.Fruit and vegetable nectars 3.Water-based flavoured drinks (Carbonated, Non-carbonated, Concentrates (liquid or solid)) 4.Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	Ash	950.14, 920.131, AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Anina Marielle SJ. Medel Cherrylean B. Bembenuto Isaiah U. Sta. Ana
	Protein	Block Digestion - Kjeldahl TM-OCS- 307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Titratable Acidity	942.15 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca)	AOAC OMA 969.32 (d) (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil John Cyrus O. Alfaro Isaiah U. Sta. Ana Aileen C. Bidol
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		

	Zinc (Zn)		
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Cyril C. Ramil
	Sorbic Acid		
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil Aileen C. Bidol
.20 Other Food Products			
	Moisture	925.09, 925.10, 935.39, 968.11, 979.12, 925.19 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Anina Marielle SJ. Medel Cherrylean B. Bembenuto Isaiah U. Sta. Ana
	Ash	923.03, 935.39, 945.39, 920.93, 920.10 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories	DOST-FNRI Food Composition Table 1997	
	Carbohydrates		
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil John Cyrus O. Alfaro Isaiah U. Sta. Ana Aileen C. Bidol
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
	Titratable Acidity	981.12 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Isaiah U. Sta. Ana Anina Marielle SJ. Medel Cherrylean B. Bembenuto
	pH	935.57, 920.92, 981.12 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019	
0.21 Vitamins in foods			
	Moisture	930.03 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro
	Ash	925.5 AOAC International Official Methods of Analysis 21st Edition, 2019	

	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	Aileen C. Bidol Leonard M. Montero Anina Marielle SJ. Medel Cherrylean B. Bembenuto Isaiah U. Sta. Ana
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	Calories	DOST-FNRI Food Composition Table 1997	
	Carbohydrates		
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil John Cyrus O. Alfaro Isaiah U. Sta. Ana Aileen C. Bidol
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
.24 Sauce, Spices, and Condiments			
1. Dry mixed for soup and sauces 2. Yeast 3. Spices and Herbs 4. Salad Dressing (e.g., mayonnaise, Thousand island, Mustard) 5. Vinegars 6. Salts 7. Sauces and like product (e.g., Fish sauce) 8. Soy-bean based seasoning and condiments (e.g., soy sauces)	Ash	941.12A, 930.35 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol Leonard M. Montero Isaiah U. Sta. Ana Anina Marielle SJ. Medel Cherrylean B. Bembenuto
	Protein	Block Digestion - Kjeldahl TM- OCS-307 Determination of Protein in Foods and Feed	
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed	
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Titratable Acidity	920.174, 930.35 AOAC International Official Methods of Analysis 21st Edition, 2019	
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Alma B. Cruz Cyril C. Ramil John Cyrus O. Alfaro Aileen C. Bidol
	Iron (Fe)		
	Sodium (Na)		
	Potassium (K)		
	Magnesium (Mg)		
	Manganese (Mn)		
	Zinc (Zn)		
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official	Ma. Rachel V. Parcon Cyril C. Ramil
	Sorbic Acid		
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019	Ma. Rachel V. Parcon Cyril C. Ramil Aileen C. Bidol

Chemical Testing - Inorganic Section

VI. Water			
.01 Bottled water	Calcium (Ca)	3030 E / F and 3111 B SMEWW 23rd Ed., 2017	
	Magnesium (Mg)		
	Sodium (Na)		
	Potassium (K)		

	Cobalt (Co)		
	Copper (Cu)		
	Iron (Fe)		
	Manganese (Mn)		
	Zinc (Zn)		
	Arsenic (As)	3114 C SMEWW 23rd Edition, 2017	
	Cadmium (Cd)	3030 E / F and 3111 B SMEWW 23rd Edition, 2017	
	Chromium (Cr), Total		
	Lead (Pb)		
	Nickel (Ni)		
	Chloride (Cl^-)	4500-Cl- B SMEWW 23rd Edition, 2017	Admer Rey C. Dablio Ma. Rachel V. Parcon Ruth L. Damian Isaiah U. Sta. Ana Michael S. Lagmay Christy S. Daniel
		4110 B SMEWW 23rd Edition, 2017	
	Fluoride (F^-)	4110 B SMEWW 23rd Edition, 2017	
	Nitrite (NO_2^-)		
	Nitrate (NO_3^-)		
	Phosphate (PO_4^{3-})		
	Sulfate (SO_4^{2-})		
	Phosphorus (P)	4500-P C and D, SMEWW 23rd Ed., 2017	
	Total Hardness	2340 C SMEWW 23rd Edition, 2017	
	pH	4500-H^+ B, SMEWW 23rd Edition, 2017	
	Conductivity	2510 B SMEWW 23rd Edition, 2017	
	Turbidity	TM-ICS-A015 (In-house Validated Method)	
	Color (True and Apparent)	2120 C SMEWW 23rd Edition, 2017	
	Alkalinity (Total, Bicarbonate, Phenolphthalein)	2320 B SMEWW 23rd Edition, 2017	
	Total Solids	2540 B SMEWW 23rd Edition, 2017	Admer Rey C. Dablio Ma. Rachel V. Parcon Ruth L. Damian Isaiah U. Sta. Ana Michael S. Lagmay
	Total Dissolved Solids	2540 C SMEWW 23rd Edition, 2017	
	Total Suspended Solids	2540 D SMEWW 23rd Edition, 2017	
	Residual Chlorine	4500-Cl B, SMEWW 23rd Ed., 2017	
	Nitrite (NO_2^-)	4500-NO2- B SMEWW 23rd Edition, 2017	

Legend to Reference Methods
AOAC - Association of Official Analytical Collaboration International
SMEWW - Standard Methods for the Examination of Water and Wastewater

****** Nothing Follows ******

APPROVED SCOPE OF ACCREDITATION AND SIGNATORIES

STANDARDS AND TESTING DIVISION - INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
DOST Complex, Genral Santos Avenue, Bicutan, Taguig City

Microbiological Testing

Products	Specific Tests	Method/Reference	Signatories
I. Foods			
01 Milk and Dairy Products			
01.1 Milk Powders (e.g. whole nonfat or filled milk, buttermilk, whey & whey protein concentrate) (intended for children more than 36 months of age and adults)	Aerobic Plate Count	BAM Online - Chapter 3	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Salmonella	BAM Online - Chapter 5	
01.2 Sweetened Condensed Milk	Aerobic Plate Count	BAM Online - Chapter 3	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Coliform Count	BAM Online - Chapter 4	
01.4 Pasteurized Milk	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
01.5 Pasteurized Cream	Aerobic Plate Count	BAM Online - Chapter 3	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
01.6 Yogurt and other fermented milk	*S. aureus*	BAM Online - Chapter 12	
	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
01.7 Cheese and chesse products e.g. cottage cheese; soft and semi-soft cheese (moisture > 39%, pH >5)	*S. aureus*	BAM Online - Chapter 12	
	Coliform Count *E.coli Count*	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
01.8 Processed Cheese Spread	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	

01.9 All Raw Milk Cheese; Raw Milk Un-ripened cheese with moisture > 50%, pH >5.0	*Salmonella*	BAM Online - Chapter 5	
	S. aureus	BAM Online - Chapter 12	
02 Fats, Oils, and Fat Emulsions			
02.1 Butter (whipped, pasteurized)	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	
	Aerobic Plate Count	BAM Online - Chapter 3	
02.2 Butter made from unpasteurized milk or milk products	Coliform Count	BAM Online - Chapter 4	
	E.coli Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
02.3 Margarine	*S. aureus*	BAM Online - Chapter 12	
	Feacal Coliform	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
03 Edible Ices including Sherbet and Sorbet			
03.1 Ice Cream & Sherbet (plain and flavored)	Coliform Count	BAM Online - Chapter 4	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
	S. aureus	BAM Online - Chapter 12	
03.2 Ice Cream with added ingredients (nuts, fruits, cocoa, etc.)	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
	S. aureus	BAM Online - Chapter 12	
03.3 Flavored Ice (e.g. ice candy)	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	

04 Confectionaries			
04.1 Cocoa Powder	Mold Count	BAM Online - Chapter 18 / In-house Validated Method	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Salmonella	BAM Online - Chapter 5	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
04.2 Chocolate Products	Mold Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
04.3 Chocolate Confectionaries (chocolate bars, blocks, bonbons)	Mold Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
04.4 Sugar Confectionaries (hard & soft candies, caramel, fondants, creams, nougats and pastes)	Mold Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
05 Fruits and Vegetables, Nuts and Seeds			
05.1 Frozen vegetables & Fruits	*E.coli* Count	BAM Online - Chapter 4	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
05.2 Fermented Vegetables, ready to eat (e.g. Kimchi)	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Coliform Count	BAM Online - Chapter 4	
	E.coli Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	S. aureus	BAM Online - Chapter 12	
05.4 Dried vegetables	*E.coli* Count	BAM Online - Chapter 4	
05.5 Dessicated Coconut	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count *E.coli* Count	BAM Online - Chapter 4	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	

05.6 Peanut Butter & other Nut Butters	*Salmonella*	BAM Online - Chapter 5	
05.7 Sun Fruits	Mold Count	BAM Online - Chapter 18 / In-house Validated Method	
	E.coli Count	BAM Online - Chapter 4	
06 Egg and Egg Products			
06.1 Pasteurized Egg Products (liquid, frozen or dried)	Coliform Count	BAM Online - Chapter 4	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Salmonella	BAM Online - Chapter 5	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Aerobic Plate Count	BAM Online - Chapter 3	
07 Cereals and Cereal Products			
07.1 Breakfast Cereals	Mold Count Yeast & Yeast-like fungi	BAM Online - Chapter 18 / In-house Validated Method	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
07.2 Cereals/Cereal Grains	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
	E.coli Count	BAM Online - Chapter 4	
07.3 Cultured seeds and grains (e.g. bean sprouts, alfalfa etc.)	*E.coli* Count	BAM Online - Chapter 4	
	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
07.4 Soya Flours Concentrates and Isolates	Mold Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
07.5 Flour, Corn meal, Corn grits, Semolina	Mold Count Yeast & Yeastlike fungi	BAM Online - Chapter 18 / In-house Validated Method	
	Coliform Count	BAM Online - Chapter 4	
07.7 Soy Protein	Coliform Count	BAM Online - Chapter 4	
	E.coli Count	BAM Online - Chapter 4	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	

07.8 Tofu	*E.coli* Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	
07.9 Pasta Products and Noodles Uncooked (wet & dry)	Coliform Count	BAM Online - Chapter 4	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	S. aureus	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
07.10 Starch	Coliform Count	BAM Online - Chapter 4	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
08 Bakery Products			
08.1 Frozen Bakery Products (ready eat) with low acid or high a_w fillings or toppings	*S. aureus*	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
08.2 Frozen Bakery Products (to be cooked) with low acid or high a_w fillings or toppings (e.g. meat pies, pizzas)	*S. aureus*	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
08.3 Frozen and Refrigerated Doughs (Chemically leavened)	Mold Count Yeast & Yeastlike fungi	BAM Online - Chapter 18 / In-house Validated Method	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
	Salmonella	BAM Online - Chapter 5	
	S. aureus	BAM Online - Chapter 12	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	E.coli Count	BAM Online - Chapter 4	
08.4 Frozen and Refrigerated Doughs	Mold Count Yeast & Yeastlike fungi	BAM Online - Chapter 18 / In-house Validated Method	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
08.5 Baked Goods (microbiologically sensitive types e.g.	*S. aureus*	BAM Online - Chapter 12	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	

containing eggs & dairy products)	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
08.6 Coated and Filled, Dried Shelf-Stable Biscuits	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
09 Ready to Eat Savouries			
09.1 Snack Foods	Mold Count Yeast & Yeastlike fungi	BAM Online - Chapter 18 / In-house Validated Method	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
10.0 Meat and Meat Products			
10.1 Dried Animal Products	*S. aureus*	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
10.2 Meat paste and Paté (heat treated)	*Salmonella*	BAM Online - Chapter 5	
	S. aureus	BAM Online - Chapter 12	
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
10.3 Cold Cuts, Frozen & Chilled Hot Corn Beef, Lucheon Meat	*E.coli* Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	S. aureus	BAM Online - Chapter 12	
	Aerobic Plate Count	BAM Online - Chapter 3	
10.4 Packaged cooked cured/salted meat (ham, bacon)	*S. aureus*	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
10.5 Fermented, comminuted meat, not cooked (dry & semi-dry fermented sausages)	*E.coli* Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	S. aureus	BAM Online - Chapter 12	
10.6 Cooked Poultry Meat, Frozen to be reheated before eating (e.g. prepared frozen meals)	*S. aureus*	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
10.7 Cured/Smoked Poultry Products	*S. aureus*	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
10.8 Dehydrated Poultry Products	*Salmonella*	BAM Online - Chapter 5	

10.9 Fresh/Frozen raw Chicken (during processing)	Aerobic Plate Count	BAM Online - Chapter 3	
11.0 Fish and Fish Products			
11.1 Fresh Forozen Fish and Cold-Smoked	*E.coli* Count	BAM Online - Chapter 4	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	S. aureus	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
11.2 Pre-Cooked Breaded Fish	*E.coli* Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	
	Aerobic Plate Count	BAM Online - Chapter 3	
11.3 Frozen Raw Crustaceans 11.4 Frozen Cooked Crustaceans	*E.coli* Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
11.5 Cooked, Chilled & Frozen Crabmeat	*E.coli* Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	
	Aerobic Plate Count	BAM Online - Chapter 3	
11.6 Fresh and Frozen Bivalve Mollusks	*E.coli* Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	
12.0 Spices, Soups, Sauces, Salad, and Protein Products			
12.1 Dry Mixes for Soup and Sauces	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
	Salmonella	BAM Online - Chapter 5	
12.2 Yeast	*Salmonella*	BAM Online - Chapter 5	
12.3 Spices	Molds Count	BAM Online - Chapter 18 / In-house Validated Method	
	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
	S. aureus	BAM Online - Chapter 12	

12.4 Spices (ready to eat)	*Salmonella*	BAM Online - Chapter 5	
	Molds Count	BAM Online - Chapter 18 / In-house Validated Method	
	Aerobic Plate Count	BAM Online - Chapter 3	
12.5 Salad Dressing, pH $\leq$ 4.6 (e.g. Mayonaise, Thousand Island, Ranch, French)	Aerobic Plate Count	BAM Online - Chapter 3	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Salmonella	BAM Online - Chapter 5	
13.0 Beverages			
13.1 Non Alcoholic Beverages (e.g. ready to drink, soft drinks, iced tea, energy drinks)	Aerobic Plate Count	BAM Online - Chapter 3	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
	Coliform Count	BAM Online - Chapter 4	
13.2 Frozen Juice Concentrate	Aerobic Plate Count	BAM Online - Chapter 3	
	Mold and Yeast Count	BAM Online - Chapter 18 / In-house Validated Method	
13.3 Powdered beverages	Aerobic Plate Count	BAM Online - Chapter 3	
	Coliform Count	BAM Online - Chapter 4	
14.0 Food for Infants and Young Children			
14.1 Powdered Infant Formula with or without added Lactic Acid producing cultures (intended for 0 to 6 month old)	*Salmonella*	BAM Online - Chapter 5	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count	BAM Online - Chapter 4	
	E.coli Count	BAM Online - Chapter 4	
14.2 Follow-up Formula/ Milk Supplement (intented for infants 6 months on and for young children 12-36 months age)	*Salmonella*	BAM Online - Chapter 5	
	Coliform Count	BAM Online - Chapter 4	
	E.coli Count	BAM Online - Chapter 4	
14.5 Dried and Instant Products requiring reconstitution	Coliform Count	BAM Online - Chapter 4	
	Aerobic Plate Count	BAM Online - Chapter 3	
	Salmonella	BAM Online - Chapter 5	
14.5 Dried Products requiring reconstitution and boiling before consumption	Coliform Count	BAM Online - Chapter 4	
	Salmonella	BAM Online - Chapter 5	
	Aerobic Plate Count	BAM Online - Chapter 3	

14.6 Cereal based foods for infants	Aerobic Plate Count	BAM Online - Chapter 3	
	Salmonella	BAM Online - Chapter 6	
	Coliform Count	BAM Online - Chapter 5	
III. Cosmetics, Perfumes, Hygiene Products and Household Hazardous			
1.0 Cosmetics 2.0 Perfumes 3.0 Hygiene Products 4.0 Detergents and other products	Aerobic Plate Count	BAM Online - Chapter 23	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida
	Yeast and Molds Count	BAM Online - Chapter 24	
IV. Water			
1.0 Bottled water	Heterotrophic Bacteria	SMEWW 9215	Marlon S.A. Aguinaldo Agnes P. de Asis Alxis John Movida Nina Mae dela Cruz
	Coliform Count Feacal Coliform COunt *E.coli* Count	SMEWW 9221	

Legend to Reference Methods
BAM - Bacteriological Analytical Manual
SMEWW - Standard Methods for the Examination of Water and Wastewater

**** Nothing Follows *****

Philippine Accreditation Bureau

ATEL-1-1121-271B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Chemical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Metals and Alloys		
Metals and Alloys	Elemental Analysis using EDS Analysis	In-House Method (AL-TP-104)
	Elemental Analysis using AES Analysis	In-House Method (AL-TP-205)
	Elemental Composition using HXRF Analysis	In-house and On-Site Testing: In-house method: AL-TP-1100
Miscellaneous materials and products		
Clays, ceramics, andrelated materials Plastics and plasticproducts Plastics Rubber and rubberproducts Rubber Paints and relatedsurface coatings Resins Ink, dyes, and pigments Adhesives and sealants Fats, oils, and waxes (FTIR, DSC, TGA) Lubricants (FTIR, DSC) Packaging and containers (plastics only DSC) Paper, paperboard, and pulp (FTIR, TGA) Pipes, hoses, valves, and fittings (plastics only DSC)	Weight loss/ temperature range by Simultaneous Thermal Analysis (STA) Technique	ASTM E1131
	Glass transition, Endothermic peak temperature, Exothermic peak temperature by Differential Scanning Calorimetry (DSC) Technique	ASTM E1356. ASTM D3418
	Compositional analysis, Degradation peak temperature by Simultaneous Thermal Analysis (STA) Technique	ASTM E1131. ASTM D6370
	Oxidative-Induction Time (OIT) by Differential Scanning Calorimetry	ASTM D3895
	Chemical fingerprinting identification by Fourier Transform Infrared Spectroscopy (FTIR)	In-house method based on FTIR Operation Manual
	Chemical fingerprinting identification of microscopic contaminants by FTIR- Microscopy	In-house method based on FTIR Microspectroscopy Operation Manual
Resins	Glass transition, Endothermic peak temperature, Exothermic peak temperature by Differential Scanning Calorimetry (DSC) Technique	ASTM E1356. ASTM D3418
	Chemical fingerprinting identification by Fourier Transform Infrared Spectroscopy (FTIR)	In-house method based on FTIR Operation Manual

Philippine Accreditation Bureau

ATEL-1-1121-271B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Chemical fingerprinting identification of microscopic contaminants by FTIR- Microscopy	In-house method based on FTIR Microspectroscopy Operation Manual
Carbon Black Solvents	Weight loss/ temperature range by Simultaneous Thermal Analysis (STA) Technique,	ASTM E1131
	Glass transition, Endothermic peak temperature, Exothermic peak temperature by Differential Scanning Calorimetry (DSC) Technique	ASTM E1356; ASTM D3418
	Compositional analysis, Degradation peak temperature by Simultaneous Thermal Analysis (STA) Technique	ASTM E1131; ASTM D6370
Clays, ceramics, andrelated materials Plastics and plasticproducts Plastics Rubber and rubberproducts Rubber Paints and relatedsurface coatings Resins Ink, dyes, and pigments Adhesives and sealants	Materials and Chemical Analysis using TOFSIMS	In-house method (AL-TP-301)

Legend to reference standard:
ASTM - American Society for Testing and Materials

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-271B

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Advanced Device and Materials Testing Laboratory (ADMATEL)

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Chemical testing** specified in the Scope of Accreditation.

Accreditation Number:	**LA-2015-271B**
Scope Reference:	**ATEL-1-1121-271B**
Accreditation Validity:	**February 08, 2025**
Certificate Validity:	**January 21, 2023**
Date Issued:	**November 19, 2021**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-271B

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

Philippine Accreditation Bureau

ATEL-1-1121-272B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Mechanical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Non-destructive test by visual inspection		
Metals and Alloys Cements, concrete and related products Clays, ceramics, and related materials Plastics and plastic products Rubber and rubber products Glass and glass products	Visual inspection using Optical Microscopy (High Power and Low Power)	In-house method (MIL-STD-750. MIL-STD-883)
	Dimensional Measurements	In-house method (ASTM-B487-85. SEMI-MF728-1006)
Non-destructive test by surface techniques		
Cements, concrete and related products Clays, ceramics, and related Materials Electronic equipment and components Glass and glass products Insulating materials and insulators Ores and Minerals Packaging and containers Particle sizing Plastics and plastic products Resins Textiles and related products Rubber and rubber products Paper, paperboard, and pulp Ink, dyes, and pigments	SEM Imaging	In-house method (AL-TP-103)
	Linear measurement of usingSEM images	In-house method (AL- TP-105)
Non-destructive test by radiography		
Metals and Alloys - Metals Electronic equipment and components Engines Automotive Packaging and containers Ores and Minerals	Visual inspection using 3D CT (Computed Tomography) X-RAY (*Dimensional Measurements*)	In-house method (AL-TP-900 3D) Reconstruction Procedure (AL-TP-901) Image Acquisition using 3D CT X-Ray

Philippine Accreditation Bureau

ATEL-1-1121-272B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Plastics and plastic products Capacitors Cements, concrete and related products		

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-272B

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Advanced Device and Materials Testing Laboratory (ADMATEL)

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Mechanical testing** specified in the Scope of Accreditation.

Accreditation Number:	**LA-2015-272B**
Scope Reference:	**ATEL-1-1121-272B**
Accreditation Validity:	**February 08, 2025**
Certificate Validity:	**January 21, 2023**
Date Issued:	**November 19, 2021**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-272B

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

PNP CSG, FEO Form Series 2002
* Explosive's License *

ORIGINAL COPY

Republic of the Philippines
NATIONAL POLICE COMMISSION
PHILIPPINE NATIONAL POLICE, CIVIL SECURITY GROUP
FIREARMS AND EXPLOSIVES OFFICE
Camp BGen Rafael T Crame, Quezon City

CONTROLLED CHEMICALS

PURCHASER'S LICENSE

RENEWAL

License No. **PMA16-211114-03717**

Date Issued **NOVEMBER 2, 2021** *Expiry Date* **NOVEMBER 20, 2022**

Company Name **INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI) – DOST.**

Licensee **ANNABELLE V. BRIONES, Ph. D – DIRECTOR III, OIC, OFFICE OF THE DIRECTOR, ITDI**

Office Address **METROLOGY BUILDING DOST COMPOUND, GENERAL SANTOS AVENUE, BICUTAN, TAGUIG CITY, METRO MANILA**

Storage Facility **METROLOGY BUILDING DOST COMPOUND, GENERAL SANTOS AVENUE, BICUTAN, TAGUIG CITY, METRO MANILA**

Control No.

CC-	P	L	-	1	1	2	1	3	2	1	6

KIND	QUANTITY	REMARKS
EXPLOSIVES/EXPLOSIVE INGREDIENTS:		
1. **LEAD NITRATE**	20 L	
2. **BISMUTH NITRATE**	20 L	
HIGH RISK CONTROLLED CHEMICALS:		
1. **AMMONIUM NITRATE, 100%**	8 kg	
2. **NITRIC ACID, 65%**	225 L	
3. **NITRIC ACID, RED FUMING, 100%** (*CAS # 7697-37-2*)	25 L	
4. **POTASSIUM NITRATE, 100%**	3 kg	
5. **POTASSIUM PERMANGANATE, 100%**	5 kg	
6. **SODIUM NITRATE, 100%**	3 kg	
LOW RISK CONTROLLED CHEMICALS:		
1. **CUPRIC NITRATE TRIHYDRATE, 100%** (*CAS # 10031-43-3*)	3 kg	FOR USE AS REAGENTS ON RESEARCH, LABORATORY TESTS AND ANALYSIS
2. **FERRIC NITRATE NONAHYDRATE, 100%** (*CAS # 7782-61-8*)	3 kg	
3. **HYDROGEN PEROXIDE, 30-50%**	80 L	
4. **NICKEL NITRATE, 90-100%** (*CAS # 13138-45-9*)	3 kg	
STANDARD SOLUTIONS WITH HIGH RISK CONTROLLED CHEMICAL:		
1. **Arsenic Standard Solution** *with NITRIC ACID (> = 1% - < 3%)*	3 kg	
2. **Cadmium Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
3. **Calcium Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
4. **Cobalt Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
5. **Copper Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
6. **Iron Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
7. **Lead Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
8. **Magnesium Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
9. **Manganese Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	
10. **Mercury Standard Solution** *with NITRIC ACID (> = 10% - < 20%)*	3 kg	

ORIGINAL COPY

11. **Nickel Standard Solution** *with NITRIC ACID (> = 1% - < 5%)*	3 kg	**FOR USE AS REAGENTS ON RESEARCH, LABORATORY TESTS AND ANALYSIS**
12. **Seawater Certified Reference Material** *with NITRIC ACID, 2-5%*	3 kg	
13. **Trace Elements in Water** *with NITRIC ACID, 2%*	3 kg	
14. **Zinc Standard Solution** *with NITRIC ACID, (> = 1% - < 5%)*	3 kg	

-x-x-x-

Aforementioned quantity of controlled chemicals is the maximum total combined amount that the licensee can purchase/import and possess which can be replenished at any one time to include stock on hand.

-x-x-x-

Allowed to purchase stated controlled chemical/s as reflected in this Purchaser's License within the maximum allowable quantity without the necessary permit. (5.5.1 IRR Controlled Chemicals.)

-x-x-x-

Subject to the condition that the Licensee will safely keep the said controlled chemicals and will faithfully comply with all the laws and regulations relating to controlled chemicals and that the Licensee will not sell, loan, or dispose the controlled chemicals without permission from the Chief of PNP. Neither the controlled chemicals nor this license is transferable.

FOR THE CHIEF, PHILIPPINE NATIONAL POLICE:

ROMMEL M MITRA
Police Brigadier General
Chief, FEO

Not Valid Without Dry Seal

12/15/2021

SBR No. : E0010282131
Amount : 1,000.00
Date : October 28, 2021

PNP CSG, FEO Explosives Management Division
License and Permit Section
DEO @ 723-0401 loc. 449

Republic of the Philippines
Department of Agriculture
BUREAU OF ANIMAL INDUSTRY
Visayas Avenue, Diliman, Quezon City

Animal Welfare Registration

CERTIFICATE

Issued to

DOST – ITDI (LABORATORY ANIMAL RESOURCE CENTER)

LAF - 0801
General Santos Avenue, Bicutan, Taguig

This facility is registered with the Bureau of Animal Industry pursuant to the provisions of the Republic Act 8485 otherwise known as Animal Welfare Act of 1998, as amended by Republic Act 10631

Animal Facility:	Date of Certification:	Valid until:
Laboratory Animal Breeding Facility	29 June 2021	28 June 2024

Approved by Authority of the Director:

SAMUEL B. ANIMAS , DVM, PhD
OIC, Assistant Director,
Regulations and Disease Control., BAI

Republic of the Philippines
Department of Agriculture
BUREAU OF ANIMAL INDUSTRY
Visayas Avenue, Diliman, Quezon City

Animal Welfare Registration

CERTIFICATE

Issued to

DOST – ITDI
(BIOLOGICAL RESEARCH & TESTING FACILITY)

LAF - 0802
General Santos Avenue, Bicutan, Taguig

This facility is registered with the Bureau of Animal Industry pursuant to the provisions of the Republic Act 8485 otherwise known as Animal Welfare Act of 1998, as amended by Republic Act 10631

Animal Facility:	Date of Certification:	Valid until:
Laboratory Animal Facility	29 June 2021	28 June 2024

Approved by Authority of the Director:

SAMUEL B. ANIMAS , DVM, PhD
OIC, Assistant Director,
Regulations and Disease Control., BAI

Republic of the Philippines
DEPARTMENT OF HEALTH
METRO MANILA CENTER FOR HEALTH DEVELOPMENT

CERTIFICATE OF ACCREDITATION

Owner	:	Department of Science and Technology
Name of Facility	:	**CHEMISTRY LABORATORY – STANDARDS AND TESTING DIVISION**
Type of Facility	:	Laboratory for Drinking Water Analysis
Location	:	Saliksik St., DOST Complex, Gen. Santos Avenue, Bicutan, Taguig City
Accreditation Number	:	13-0021-2123-LW-1
Validity of Accreditation	:	22 September 2021 – 31 December 2023

Service:
Physico-Chemical Analysis

Tests:

Arsenic	Copper	Total Dissolved Solids
Cadmium	Iron	Disinfectant Residual – Chlorine
Flouride	Manganese	
Lead	Sodium	
Total Mercury	Zinc	
Nickel	Silicon	
Nitrate (NO_3)	Sulfate	
Nitrite (NO_2)	Turbidity	
Chloride	pH	

By the Authority of the Secretary of Health:

GLORIA J. BALBOA, MD, MPH, MHA, CEO VI, CESO III
Director IV

This accreditation is renewable every three (3) years and subject to suspension or revocation if the facility is found violating AO 2020-0031 and related issuances

Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
NATIONAL CAPITAL REGION
5F Hizon Bldg. 29 Quezon Ave., Quezon City
Tel. Nos. 781-0482/83, 781-0484/85, 781-0471, 781-0497, 749-9828/29
Telefax. 781-0497, 781-0482, 781-0485

ENVIRONMENTAL COMPLIANCE COMMITMENT
(Environmental Compliance Certificate)

(Issued under Presidential Decree 1586)

ECC-NCR-1211-0451

THIS IS TO CERTIFY THAT PROPONENT **INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE**, represented by its Director, Dr. Nuna E. Almanzor, is granted this ECC for the **RESEARCH INSTITUTION**, located at **DOST Compound, General Santos Avenue, Bicutan, Taguig City, Metro Manila**, by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau-National Capital Region.

SUBJECT ONLY to the conditions and restrictions set-out in this ECC and in the attached document labeled as Annex A. Recommendations have been provided in Annex B as guidance to concerned government agencies and local government units for consideration in their decision making process.

PROJECT DESCRIPTION

The ECC covers the **RESEARCH INSTITUTION** located in 75,000 m² lot within the DOST Compound, General Santos Avenue, Bicutan, Taguig City, Metro Manila.

The project is focused on implementing R&D activities on food processing, material science, environment and biotechnology, chemical and energy, and packaging technology. It also offers services on testing and analysis, calibration and equipment fabrication. It occupies 11 buildings with a total floor area of 30,288 m².

This **Planning Tool** is issued pursuant to the provisions of Presidential Decree No. 1586, in accordance to Department Administrative Order No. 2003-30. Non-compliance with any of the provisions of this ECC shall be sufficient cause for its cancellation or suspension and/or imposition of a fine in an amount not to exceed Fifty Thousand Pesos (PhP 50,000.00) for every violation thereof. The Bureau, however, is not precluded from reevaluating, adding, removing, and correcting any deficiencies or errors that may be found to be inconsistent with the Revised Procedural Manual of DAO 2003-30 after issuance of this ECC.

Issued at EMB-NCR, 5th Floor Hizon Bldg., No. 29 Quezon Avenue, Quezon City this 19 2012.

Approved:

ENGR. VIZMINDA A. OSORIO
OIC, Regional Director

Recommending Approval:

EMILIANO P. KEMPIS, JR.
Chief, Environmental Impact Assessment

Republic of the Philippines
Department of Health
FOOD AND DRUG ADMINISTRATION
Civic Drive, Filinvest Corporate City, Alabang, Muntinlupa City, 1781 Philippines

This

Certificate of Accreditation

Laboratory Accreditation No. FDALA-2018-002

is awarded to

Standards and Testing Division – Industrial Technology Development Institute, Department of Science and Technology

Department of Science and Technology Compound, Gen. Santos Avenue, Bicutan, Taguig City

After having been assessed and found in compliance with FDA requirements and conditions for Laboratory Accreditation in accordance with the provisions of RA 9711, also known as the Food and Drug Administration Act of 2009.

SCOPE OF ACCREDITATION: CHEMICAL AND MICROBIOLOGICAL TESTING

This Certificate is valid until 17 February 2021, subject to continuing conformity with conditions and criteria for Laboratory Accreditation.

In testimony whereof, I have hereunto signed this Certificate this 06th day of December 2018.

BY AUTHORITY OF THE DIRECTOR GENERAL

JOCELYN E. BALDERRAMA, RPh, MBA
Director II, Common Services Laboratory

FDA-0124503

Philippine Accreditation Bureau

ATEL-1-0422-081D

SCOPE OF ACCREDITATION

Microbiology Section, Biological Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Biological Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Cosmetics, perfumes and essential oils	Aerobic Plate Count	BAM Online-23 (2017)
	Yeast and Molds Count	
Foods and Beverages	Aerobic Plate Count	BAM Online-3 (2001)
	Yeast and Molds Count	BAM Online-18 (2001)
	Total Coliform Count	BAM Online-4 (2002)
	E. coli Count	BAM Online-4 (2002)
	Fecal Coliform Count	BAM Online-4 (2002)
	S. aureus Count	BAM Online-12 (2001)
	Salmonella sp. Detection	BAM Online-5 (2019)
Packaging Materials – Sealed Bottle and Plastic Containers	Aerobic Plate Count	CMMEF, 5th Ed., 2015
Herbal Tea – Dried Plant Material	Aerobic Plate Ct.	BAM Online-3 (2001)
	Yeast and Molds Ct.	BAM Online-18 (2001)
	Total Coliform Ct.	BAM Online-4 (2002)
	E. coli Ct.	BAM Online-4 (2002)
	S. aureus Ct.	BAM Online-12 (2001)
	Salmonella sp. Detection	BAM Online-5 (2019)
Water	Heterotrophic Plate Count	SMEWW 9215 (2017)
	Total Coliform Count	SMEWW 9221 (2017)
	Fecal Coliform Count	SMEWW 9221 (2017)
	E. coli Count	SMEWW 9221 (2017)

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2005-081D

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Microbiology Section, Biological Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Biological Testing** specified in the Scope of Accreditation.

Accreditation Number:	**LA-2005-081D**
Scope Reference:	**ATEL-1-0422-081D**
Accreditation Validity:	**December 23, 2023**
Certificate Validity:	**May 13, 2023**
Date Issued:	**April 13, 2022**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2005-081D

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Chemical Testing (Organic Chemistry Laboratory)

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Foods		
Cereal Products	Moisture	945.18, 925.09, 926.07, 926.06, 925.09B, 945.15, 935.29, 925.10, AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	945.18, 923.03, 925.11, AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Cereal Products	pH	935.39, 943.02, 940.23 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Nuts and Nut Products	Moisture	925.4, 945.39, 925.10 AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	950.49 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Nuts and Nut Products	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
Dairy Products	Moisture	969.35, 927.05, 926.08 AOAC International Official Methods of Analysis 21st Edition, 2019

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Dairy Products	Ash	945.46, 920.108, 930.30, 920.115B, 930.3, 920.117, 935.42, AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Titratable Acidity	947.05, 920.124 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Dairy Products	Magnesium (Mg)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
Meat, poultry and derived products	Moisture	950.46B AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	920.153, 920.108 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Meat, poultry and derived products	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Sugar and sugar products	Moisture	925.45B AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	900.02, 920.18 AOAC International Official Methods of Analysis21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Vegetable and vegetable products	Moisture	930.03, 971.28 AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	930.05, 925.51 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein inFoods and Feed

Philippine Accreditation Bureau

ATEL-1-0422-190C

SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International OfficialMethods of Analysis 21st Edition, 2019

Philippine Accreditation Bureau

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SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Other Food Products (Flour, Baked Products,Coffee and Tea/ Roasted Coffee)	Moisture	925.09, 925.10, 935.39, 968.11, 979.12, 925.19 AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	923.03, 945.39, 935.39, AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	

Philippine Accreditation Bureau

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SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Manganese (Mn)	
	Zinc (Zn)	
Food Supplement and Dietary Supplement	Moisture	930.03 AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	925.5 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	

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SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Meat and Meat Products	Moisture	950.46B AOAC International Official Methods of Analysis 21st Edition, 2019
Plant	Moisture	930.04, 930.15 AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	945.38C, 930.05 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997

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Organic Chemistry Section, Chemistry Laboratory
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Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	pH	970.21a AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Fish, crustaceans and mollusks and derived products	Ash	938.08 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calcium (Ca)	AOAC OMA 969.32 (d) (Modified) AOAC International Official Methods
	Iron (Fe)	
	Sodium (Na)	

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Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Potassium (K)	of Analysis 21st Edition, 2019
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Fruit, jams and other fruit products	Ash	940.26 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019
	Titratable Acidity	942.15 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International OfficialMethods
	Iron (Fe)	

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Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Sodium (Na)	of Analysis 21st Edition, 2019
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019
Sauces, spices, and condiments	Ash	941.12A, 930.35 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019

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Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Sauces, spices, and condiments	Titratable Acidity	920.174, 930.35 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
	Sulfite (as SO2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019
Confectionary	Ash	900.02, 935.46 AOAC International Official Methods of Analysis 21st Edition, 2019

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Industrial Technology Development Institute
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DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Confectionary	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019
	Titratable Acidity	936.09 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	

Philippine Accreditation Bureau

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SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
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Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Other Food Products (Acidified Foods)	pH	981.12 AOAC International Official Methods of Analysis 21st Edition, 2019
Other Food Products (Food Dressing, Roasted Coffee)	Titratable Acidity	935.57, 920.92 AOAC International Official Methods of Analysis 21st Edition, 2019
Rice and cereal Products	Arsenic (As)	AOAC OMA 986.15 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
Beverages		
Dairy Product	Ash	920.115b AOAC International Official Methods of Analysis 21st Edition, 2019
Fruit Juices, drinks, concentrates	Ash	950.14, 920.131, AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - KjeldahlTM-OCS-307 Determination of Protein in Foods and Feed

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Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
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Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	pH	945.27 AOAC International Official Methods of Analysis 21st Edition, 2019
	Titratable Acidity	942.15 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (d) (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019

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Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Softdrinks and Cordial	Ash	950.14, 920.67, 920.49 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Titratable Acidity	950.15, 935.57 AOAC International Official Methods of Analysis 21st Edition, 2019
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods

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Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Sorbic Acid	of Analysis 21st Edition, 2019
Wine, beer and other alcoholic beverages	Ash	920.54, 920.67 AOAC International OfficialMethods of Analysis 21st Edition, 2019
	pH	960.19, 945.30, 945.10 AOAC International Official Methods of Analysis 21st Edition, 2019
	Titratable Acidity	960.19, 970.21b AOAC International OfficialMethods of Analysis 21st Edition, 2019
	Benzoic Acid	AOAC OMA 979.08 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Sorbic Acid	
Other Food Products (Coffee and Tea)	Ash	923.03, 935.39, 920.93, 920.10 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed

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Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Other Food Products (Coffee and Tea)	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calcium (Ca)	AOAC OMA 969.32 (d) (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	
	Potassium (K)	
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	
Other Food Products (Tea)	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019
Acidified Foods	pH	981.12 AOAC International Official Methods of Analysis 21st Edition, 2019
Milk	Titratable Acidity	947.05 AOAC International Official Methods of Analysis 21st Edition, 2019
Vegetable juice	Sulfite (as SO_2)	AOAC OMA 990.28 AOAC International Official Methods of Analysis 21st Edition, 2019

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Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Agricultural Products and Materials		
Feeds	Moisture	AOAC OMA 945.15, 930.15 AOAC International Official Methods of Analysis 21st Edition, 2019
	Ash	AOAC OMA 945.18, 942.05 AOAC International Official Methods of Analysis 21st Edition, 2019
	Protein	Block Digestion - Kjeldahl TM-OCS-307 Determination of Protein in Foods and Feed
	Fat	Soxhlet TM-OCS-304 Determination of Fat in Foods and Feed
	Calories	DOST-FNRI Food Composition Table 1997
	Carbohydrates	DOST-FNRI Food Composition Table 1997
	Calcium (Ca)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Iron (Fe)	
	Sodium (Na)	

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SCOPE OF ACCREDITATION

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Feeds	Potassium (K)	AOAC OMA 969.32 (Modified) AOAC International Official Methods of Analysis 21st Edition, 2019
	Magnesium (Mg)	
	Manganese (Mn)	
	Zinc (Zn)	

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2011-190C

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Organic Chemistry Section, Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Chemical Testing** specified in the Scope of Accreditation.

Accreditation Number:	**LA-2011-190C**
Scope Reference:	**ATEL-1-0422-190C**
Accreditation Validity:	**February 17, 2026**
Certificate Validity:	**July 13, 2023**
Date Issued:	**April 13, 2022**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2011-190C

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

Philippine Accreditation Bureau

ATEL-1-0422-191C

SCOPE OF ACCREDITATION

Physical and Performance Testing Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Mechanical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Rubber and Rubber Products	Tensile Strength	ISO 37 / ASTM D412
	Ultimate (Breaking) Elongation	
	Stress at a Specified/Given Elongation	
	Hardness (Type A)	ASTM D2240
	Compression Set	ISO 815 / ASTM D395
	Density / Specific Gravity	ASTM D297
	Accelerated Aging Test	ASTM D573/ ISO188
Plastic and Plastic Products	Tensile Strength	ASTM D638
	Tensile Stress at Yield	
	Elongation at Yield	
	Tensile Stress at Break	
	Elongation at Break	
	Modulus of Elasticity	
	Tensile Strength	ASTM D882
	Tensile Stress at Break	
	Elongation at Break	
	Melt Flow Rate	ASTM D1238
	Flexural Strength	ISO 178 / ASTM D790
	Flexural Strength at Specified/Given Strain	
	Flexural Modulus	

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2011-191C

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Physical and Performance Testing Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Mechanical Testing** specified in the Scope of Accreditation.

Accreditation Number:	**LA-2011-191C**
Scope Reference:	**ATEL-1-0422-191C**
Accreditation Validity:	**March 03, 2026**
Certificate Validity:	**July 13, 2023**
Date Issued:	**April 13, 2022**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2011-191C

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

Philippine Accreditation Bureau

ATEL-1-0422-284B

SCOPE OF ACCREDITATION

Inorganic Chemistry Section
Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Chemical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Waters	Arsenic (As)	3114 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Cadmium (Cd)	3030 E / F and 3111 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Chromium (Cr), Total	
	Copper (Cu)	
	Lead (Pb)	
	pH	4500-H+ B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Conductivity	2510 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Color (True and Apparent)	2120 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Turbidity	TM-ICS-A015 (In-house ValidatedMethod)

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Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Waters	Alkalinity (Total, Bicarbonate, Phenolphthalein)	2320 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Hardness, Total	23240 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Solids, Total	2540 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Dissolved Solids, Total	2540 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Suspended Solids, Total	2540 D Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Chloride (Cl^-)	4500-Cl- B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017

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Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Waters	Nitrite (NO_2^-)	4500-NO2- B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Sulfate (SO_4^{2-})	4110 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Phosphate (PO_4^{3-})	
	Nitrate (NO_3^-)	
	Nitrite (NO_2^-)	
	Chloride (Cl^-)	
	Phosphorus	4500-P C and D Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Chlorine, Residual	4500-Cl B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
Constituents of the Environment (Water other than Saline; Saline Waters)	Arsenic (As)	3114 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Cadmium (Cd)	3030 E/F and 3111 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Chromium (Cr), Total	
	Copper (Cu)	
	Lead (Pb)	

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Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Constituents of the Environment (Water other than Saline; Saline Waters)	pH	4500-H+ B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF
	Conductivity	2510 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Color (True and Apparent)	2120 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Turbidity	TM-ICS-A015 (In-house Validated Method)
	Alkalinity (Total, Bicarbonate, Phenolphthalein)	2320 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Hardness, Total	23240 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Solids, Total	2540 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017

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Chemistry Laboratory
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Industrial Technology Development Institute
Department of Science and Technology

DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Constituents of the Environment (Water other than Saline; Saline Waters)	Dissolved Solids, Total	2540 C Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Suspended Solids, Total	2540 D Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Chloride (Cl^-)	4500-Cl- B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Nitrite (NO_2^-)	4500-NO2- B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Sulfate (SO_4^{2-})	4110 B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
	Phosphate (PO_4^{3-})	
	Nitrate (NO_3^-)	
	Nitrite (NO_2^-)	
	Chloride (Cl^-)	
	Phosphorus	4500-P C and D Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017

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DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Constituents of the Environment (Water other than Saline; Saline Waters)	Chlorine, Residual	4500-Cl B Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF 23rd Edition, 2017
Constituents of the Environment (Soil)	pH	US EPA 9045 D (2004)
	Nitrogen (N)	TM-ICS-B005
	Phosphorus (P)	TM-ICS-B006

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-284B

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Inorganic Chemistry Section
Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Chemical Testing** specified in the Scope of Accreditation.

Accreditation Number:	**LA-2015-284B**
Scope Reference:	**ATEL-1-0422-284B**
Accreditation Validity:	**December 22, 2025**
Certificate Validity:	**July 13, 2023**
Date Issued:	**April 13, 2022**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-284B

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué).

Republic of the Philippines
Professional Regulation Commission
Manila

The
PROFESSIONAL REGULATORY BOARD OF CHEMISTRY

hereby grants this

Certificate of Authority to Operate

Pursuant to the powers vested in the Board of Chemistry under Sections 7g and 36 of Republic Act No. 10657, the

DOST - INDUSTRIAL TECHOLOGY DEVELOPMENT INSTITUTE
STANDARDS AND TESTING DIVISION

DOST Compound, Gen. Santos Avenue, Bicutan Taguig City

has been found to meet the requirements of the said Act and the Rules and Regulations of the Board.

In view whereof, this Certificate of Authority to Operate No. 010 *is issued with all the rights and privileges appertaining thereto, this* 26th *day of* February *20*18*, at Manila, Philippines.*

This Certificate shall be valid for three (3) years from the date of issue unless earlier revoked or suspended by the Board.

APResurreccion
ADORACION P. RESURRECCION
Chairperson

Approved:

TEOFILO S. PILANDO, JR.
Commission Chairman

SID-BOC-04
Rev.00
May 9, 2017

Republic of the Philippines
Professional Regulation Commission
Manila

CPD COUNCIL OF CHEMISTRY

awards this

Certificate of Accreditation

to

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

STD Bldg., Saliksik St., Department of Science and Technology Complex, Gen. Santos Ave., Bicutan, Taguig City

For having completed the requirements for
Continuing Professional Development (CPD) as CPD Provider
in accordance with the "Implementing Rules and Regulations (IRR) of Republic Act No. 10912, otherwise known as the CPD Act of 2016" set forth by the ***PROFESSIONAL REGULATION COMMISSION*** *in Resolution No. 1032, Series of 2017*

Accreditation No. CHM-2019-026

Given this 19th day of March 2019.
Expires on 18 March 2022.

APResurreccion

ADORACION P. RESURRECCION
Chairperson

DAkkS
Deutsche
Akkreditierungsstelle

DAkkS | Deutsche Akkreditierungsstelle GmbH
Bundesallee 100 | 38116 Braunschweig | Germany

National Metrology Laboratory of the Philippines
Mr. Manuel M. Ruiz
General Santos Avenue, Bicutan
TAGUIG CITY 1631
PHILIPPINES

Deutsche
Akkreditierungsstelle GmbH
(German Accreditation Body)
Office Braunschweig

Contact:
Ulrike Eichfeld
Phone: +49 5315921913
ulrike.eichfeld@dakks.de

13.10.2020

Re-accreditation of your calibration laboratory

File number:
K-15035-01

Dear Mr. Ruiz,

your calibration laboratory has been granted the reaccreditation for the calibration in the fields of temperature quantities, mechanical quantities and chemical and medical quantities – as shown in the annex of accreditation certificate.

The DAkkS Accreditation Body wishes you success in your work and is looking forward to good and fruitful cooperation.

Yours sincerely

signed Ulrike Eichfeld

Ulrike Eichfeld
Case manager

DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the calibration laboratory

National Metrology Laboratory of the Philippines
General Santos Avenue, Bicutan, 1631 Taguig City, Philippines

is competent under the terms of ISO/IEC 17025:2017 to carry out calibrations in the following fields:

Thermodynamic quantities
Temperature quantities
- **Resistance thermometers**
- **Liquid-in-glass thermometers**
- **Direct reading thermometers**

Mechanical quantities
- **Mass standards**
- **Weighing instruments** [a)]
- **Pressure**

Chemical and Medical Quantities
Chemical analysis, reference material
- **Volume of liquids**

[a)] only on-site calibration

The accreditation certificate is valid until 12.10.2025. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 6 pages.

Registration number of the certificate: **D-K-15035-01-00**

Braunschweig, 13.10.2020

Dr. Heike Mahke
Head of Division

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-15035-01-00 according to ISO/IEC 17025:2017

Period of validity: 13.10.2020 to 12.10.2025

Date of issue: 13.10.2020

Holder of certificate:

National Metrology Laboratory of the Philippines
General Santos Avenue, Bicutan, 1631 Taguig City, Philippines

Calibration in the fields:

Thermodynamic quantities

Temperature quantities

- **Resistance thermometers**
- **Liquid-in-glass thermometers**
- **Direct reading thermometers**

Mechanical quantities

- **Mass standards**
- **Weighing instruments** [a)]
- **Pressure**

Chemical and Medical Quantities

Chemical analysis, reference material

- **Volume of liquids**

[a)] only on-site calibration

The management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of calibration laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH. https://www.dakks.de/en/content/accredited-bodies-dakks

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement [1)]	Remarks
Temperature quantities Platinum Resistance Thermometers	-30 °C to 0 °C	Cryostatic bath DKD-R 5-1:2018	25 mK	Comparison with standard platinum resistance thermometer. Determination of the polynomial coefficients according to IEC 60751
	> 0 °C to 90 °C	Water bath DKD-R 5-1:2018	25 mK	
	> 90 °C to 250 °C	Oil bath DKD-R 5-1:2018	30 mK	
	0 °C (Ice Point)	Ice bath DKD-R 5-1:2018	10 mK	
Liquid-in-Glass Thermometers	-30 °C to 0 °C	Cryostatic bath PTB-Prüfregeln, Volume 2: Liquid-in-glass Thermometers	45 mK	Comparison with standard platinum resistance thermometer
	> 0 °C to 90 °C	Water bath PTB-Prüfregeln, Volume 2: Liquid-in-glass Thermometers	45 mK	
	> 90 °C to 250 °C	Oil bath PTB-Prüfregeln, Volume 2: Liquid-in-glass Thermometers	45 mK	
Digital Thermometers	-30 °C to 0 °C	Cryostatic bath DKD-R 5-1:2018	30 mK	
	> 0 °C to 90 °C	Water bath DKD-R 5-1:2018	30 mK	
	> 90 °C to 250 °C	Oil bath DKD-R 5-1:2018	30 mK	

[1)] The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement [1)]	Remarks
Mass standard Conventional mass	1 mg 2mg 5 mg	OIML R 111-1:2004 (E) without density determination	0.002 mg	For weight pieces according to OIML R 111-1:2004, up to Class E2
	10 mg		0.002 mg	
	20 mg		0.003 mg	
	50 mg		0.004 mg	
	100 mg		0.005 mg	
	200 mg		0.006 mg	
	500 mg		0.008 mg	
	1 g		0.010 mg	
	2 g		0.012 mg	
	5 g		0.016 mg	
	10 g		0.020 mg	
	20 g		0.025 mg	
	50 g		0.03 mg	
	100 g		0.05 mg	
	200 g		0.10 mg	
	500 g		0.25 mg	
	1 kg		0.50 mg	
	2 kg		1.0 mg	
	5 kg		2.5 mg	
	10 kg		5.0 mg	
	20 kg		10 mg	
	50 kg		25 mg	
	100 kg		160 mg	For weight pieces according to OIML R 111-1:2004, up to Class F1
	200 kg		300 mg	
	500 kg		8.0 g	For weight pieces according to OIML R 111-1:2004, up to Class M1

[1)] The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range			Measurement conditions / procedure	Expanded uncertainty of measurement [1)]	Remarks
Conventional mass	1 mg	to	10 mg	OIML R 111-1:2004 (E) without density determination	0.0080 mg	For free nominal values m_c = conventional mass
	> 10 mg	to	20 mg		0.010 mg	
	> 20 mg	to	50 mg		0.012 mg	
	> 50 mg	to	100 mg		0.016 mg	
	> 100 mg	to	200 mg		0.020 mg	
	> 200 mg	to	500 mg		0.025 mg	
	> 500 mg	to	1 g		0.030 mg	
	> 1 g	to	2 g		0.040 mg	
	> 2 g	to	5 g		0.050 mg	
	> 5 g	to	10 g		0.060 mg	
	> 10 g	to	20 g		0.080 mg	
	> 20 g	to	50 g		0.10 mg	
	> 50 g	to	100 g		0.16 mg	
	> 100 g	to	50 kg		$1.7 \cdot 10^{-6}\ m_c$	
	> 50 kg	to	500 kg		$5 \cdot 10^{-5}\ m_c$	
Pressure Gauge Pressure p_e	0.2 MPa	to	4 MPa	DKD-R-6-1: 2014 EURAMET cg-17 Version 4.0	$7.1 \cdot 10^{-5} \cdot p_e$, but not less than 25 Pa	Pressure Medium: Gas p_e: measured gauge pressure in MPa
	> 4 MPa	to	20 MPa		$7.1 \cdot 10^{-5} \cdot p_e$	
	1.25 MPa	to	6.8 MPa		$1.1 \cdot 10^{-4} \cdot p_e$, but not less than 410 Pa	Pressure Medium: Liquid p_e: measured gauge pressure in MPa
	> 6.8 MPa	to	100 MPa		$8.3 \cdot 10^{-5} \cdot p_e$, but not less than 630 Pa	
Absolute Pressure p_{abs}	0.3 MPa	to	4.1 MPa	DKD-R-6-1: 2014 EURAMET cg-17 Version 4.0 Principle of measurement: $p_{abs} = p_e + p_{amb}$	$7.1 \cdot 10^{-5} \cdot p_{abs}$, but not less than 25 Pa	Pressure Medium: Gas p_{abs}: measured pressure in MPa The uncertainty of the atmospheric pressure p_{amb} (barometer) has to be added.
	> 4.1 MPa	to	20.1 MPa		$7.1 \cdot 10^{-5} \cdot p_{abs}$	
	1.35 MPa	to	6.9 MPa		$1.1 \cdot 10^{-4} \cdot p_{abs}$, but not less than 410 Pa	Pressure Medium: Liquid p_{abs}: measured absolute pressure in MPa The uncertainty of the atmospheric pressure p_{amb} (barometer) has to be added.
	> 6.9 MPa	to	100.1 MPa		$8.3 \cdot 10^{-5} \cdot p_{abs}$, but not less than 630 Pa	

[1)] The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement [1)]	Remarks
Chemical analysis Volume of liquids/ Piston-operated Pipettes with Variable Volume	1 µL to < 10 µL	Gravimetric Method according to ISO 8655:2002 and DKD R 8-1:2011	a. 2.0 % b. 1.5 % c. 1.0%	Measurement uncertainties refer to nominal volumes. a) Upper nominal volume: ($V_T = 1{,}0 \cdot V_N$) for devices with fixed or variable volume b) Middle nominal volume: ($V_T = 0{,}5 \cdot V_N$) for devices with variable volume c) Lower nominal volume: ($V_T = 0{,}1 \cdot V_N$) for devices with variable volume V_T: Test volume V_N: Nominal volume
	10 µL to < 100 µL		a. 0.45 % b. 0.34 % c. 0.23 %	
	100 µL to < 1200 µL		a. 0.23 % b. 0.17 % c. 0.12 %	
	1200 µL to 10 ml		a. 0.15 % b. 0.11 % c. 0.075 %	
Volume of liquids/ Piston-operated Pipettes with Fixed Volume	1 µL to < 10 µL		2.0 %	
	10 µL to < 100 µL		0.45 %	
	100 µL to < 1200 µl		0.23 %	
	1200 µL to 10 mL		0.15 %	
Volume of liquids/ Dispenser	1 µL to < 10 µL	Gravimetric Method according to ISO 8655:2002 and DKD R 8-2:2017	a. 2.0 % b. 1.5 % c. 1.0%	Measurement uncertainties refer to nominal volumes. d) Upper nominal volume: ($V_T = 1{,}0 \cdot V_N$) for devices with fixed or variable volume e) Middle nominal volume: ($V_T = 0{,}5 \cdot V_N$) for devices with variable volume f) Lower nominal volume: ($V_T = 0{,}1 \cdot V_N$) for devices with variable volume V_T: Test volume V_N: Nominal volume
	10 µL to < 100 µL		a. 0.45 % b. 0.34 % c. 0.23 %	
	100 µL to < 1200 µL		a. 0.23 % b. 0.17 % c. 0.12 %	
	1200 µL to < 10 mL		a. 0.15 % b. 0.11 % c. 0.075 %	
	10 mL to 100 mL		a. 0.075 % b. 0.056 % c. 0.038 %	

[1)] The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement [1)]	Remarks
Volume of liquids/ Volumetric Instruments made of glass,"Ex"	0.1 mL to 1 mL	Gravimetric Method according to ISO 4787:2011	0.30 %	
	> 1 mL to 10 mL		0.085 %	
	> 10 mL to 100 mL		0.045 %	
Volume of liquids/ Volumetric Instruments made of glass,"In"	1 mL to 10 mL	Gravimetric Method according to ISO 4787:2011	0.085 %	
	> 10 mL to 100 mL		0.050 %	
	> 100 mL to 1000 mL		0.045 %	
	> 1 L to 5 L		0.042 %	

On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement [1)]	Remarks
Weighing instruments Non-automatic electronic weighing instruments	up to 2 kg	EURAMET Calibration Guide No.-18 Version 4.0	$1.0 \cdot 10^{-6}$	For weight pieces according to OIML R 111-1:2004 Class E_2 weight pieces
	up to 60 kg		$6.0 \cdot 10^{-6}$	For weight pieces according to OIML R 111-1:2004 Class F_1 weight pieces
	up to 200 kg		$2.0 \cdot 10^{-5}$	For weight pieces according to OIML R 111-1:2004 Class F_2 weight pieces
	up to 300 kg		$6.0 \cdot 10^{-5}$	For weight pieces according to OIML R 111-1:2004 Class M_1 weight pieces

Abbreviations used:

DKD-R	Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt
PTB	Physikalisch-Technische Bundesanstalt
EURAMET	European Association of National Metrology Institutes
OIML	International Organization of Legal Metrology

[1)] The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

Republic of the Philippines
DEPARTMENT OF HEALTH
METRO MANILA CENTER FOR HEALTH DEVELOPMENT

CERTIFICATE OF ACCREDITATION

Owner	:	Department of Science and Technology
Name of Facility	:	**CHEMISTRY LABORATORY – STANDARDS AND TESTING DIVISION**
Type of Facility	:	Laboratory for Drinking Water Analysis
Location	:	Saliksik St., DOST Complex, Gen. Santos Avenue, Bicutan, Taguig City
Accreditation Number	:	13-0021-2123-LW-1
Validity of Accreditation	:	22 September 2021 – 31 December 2023

Service:
Physico-Chemical Analysis

Tests:

Arsenic	Copper	Total Dissolved Solids
Cadmium	Iron	Disinfectant Residual – Chlorine
Flouride	Manganese	
Lead	Sodium	
Total Mercury	Zinc	
Nickel	Silicon	
Nitrate (NO_3)	Sulfate	
Nitrite (NO_2)	Turbidity	
Chloride	pH	

By the Authority of the Secretary of Health:

GLORIA J. BALBOA, MD, MPH, MHA, CEO VI, CESO III
Director IV

This accreditation is renewable every three (3) years and subject to suspension or revocation if the facility is found violating AO 2020-0031 and related issuances

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Advanced Device and Materials Testing Laboratory (ADMATEL)
Industrial Technology Development Institute
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Chemical Testing** as specified in the Scope of Accreditation.

Accreditation Number:	**LA-2015-271B**
Scope Reference:	**ATEL-1-0220-271B**
Accreditation Validity:	**February 08, 2025**
Certificate Validity:	**November 11, 2021**
Date Issued:	**February 11, 2020**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-271B

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué)

Philippine Accreditation Bureau

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Advanced Device and Materials Testing Laboratory (ADMATEL)
Industrial Technology Development Institute
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Mechanical Testing** as specified in the Scope of Accreditation.

Accreditation Number:	**LA-2015-272B**
Scope Reference:	**ATEL-1-0220-272B**
Accreditation Validity:	**February 08, 2025**
Certificate Validity:	**November 11, 2021**
Date Issued:	**February 11, 2020**

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-272B

This accreditation demonstrates technical competence for the specified scope reference and operates generally in accordance with the principles of ISO 9001 (refer to joint ISO-ILAC-IAF Communiqué)

Philippine Accreditation Bureau

ATEL-1-0220-271B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)
Industrial Technology Development Institute
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Chemical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Metals and alloys		
Metals and alloys	Elemental analysis using EDS Analysis	In-House Method (AL-TP-104)
	Elemental analysis using AES Analysis	In-House Method (AL-TP-205)
Miscellaneous materials and products		
Chemical tests - Clays, ceramic and related materials - Plastics - Rubber - Paints and related surface coatings - Resins - Inks, dyes and pigments - Adhesive sealant	Weight loss / temperature range by Simultaneous Thermal Analysis (STA) Technique	ASTM E1131
	Glass transition, Endothermic peak temperature, Exothermic peak temperature by Differential Scanning Calorimetry (DSC) Technique	ASTM E1356; ASTM D3418
	Compositional analysis, Degradation peak temperature by Simultaneous Thermal Analysis (STA) Technique	ASTM E1131; ASTM D6370
	Oxidative-Induction Time (OIT) by Differential Scanning Calorimetry	ASTM D3895
	Chemical fingerprinting identification by Fourier Transform Infrared Spectroscopy (FTIR)	In-house Method based on FTIR Operation Manual
	Chemical fingerprinting identification of Microscopic contaminants by FTIR-Microscopy	In-house Method based on FTIR, FTIR- Microspectroscopy Operation Manual

Philippine Accreditation Bureau

ATEL-1-0220-271B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)
Industrial Technology Development Institute
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Materials and Chemical Analysis using TOFSIMS	In-house method (AL-TP-301)

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-271B

Philippine Accreditation Bureau

ATEL-1-0220-272B

SCOPE OF ACCREDITATION

Advanced Device and Materials Testing Laboratory (ADMATEL)
Industrial Technology Development Institute
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Mechanical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Non-destructive test by visual inspection		
Visual inspection of metals	Visual Inspection using Optical Microscopy (High Power and Low Power)	In-house method (MIL-STD-750 and MIL-STD-883)
	Dimensional Measurements	In-house method (ASTM-B487-85 and SEMI-MF728-1006)
Visual inspection of non-metals	Visual Inspection using Optical Microscopy (High Power and Low Power)	In-house method (MIL-STD-750 and MIL-STD-883)
	Dimensional Measurements	In-house method (ASTM-B487-85 and SEMI-MF728-1006)
Non-destructive tests by surface techniques		
Other specified surface techniques	SEM Imaging	In-house method (AL-TP-103)
	Linear measurement using SEM images	In-house method (AL-TP-105)
Non-destructive test by radiography		
Radiographic examination of metals Radiographic examination of non-metals Radiographic examination of components and assemblies	Visual inspection using 3D CT (Computed Tomography) X-RAY (Dimensional Measurements)	In-house method (AL-TP-900 3D) Reconstruction Procedure (AL-TP-901) Image Acquisition using 3D CT X-Ray

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2015-272B

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

ATEL-2-0819-081D

APPROVED SIGNATORIES

Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

Gen. Santos Ave., Bicutan, Taguig City

Name	Program/Class of Test Biological Testing
Marlon A. Aguinaldo Agnes P. de Asis Gemma T. Rondario Alxis John C. Movida	1.04 Tests on cosmetics, perfumes and essential oils .01 Microbial counts .01 Aerobic plate count
	1.05 Microbiological tests on foods and beverages .01 Microbial Count .01 Aerobic plate count .09 Yeast and mold count .02 Indicator Microorganisms .02 Coliform count .04 *E. coli* count .03 Pathogens .02 *S. aureus* (coagulase positive) count .07 *Salmonella* AE. Fruits, Vegetables and Nuts and Seeds AG. Cereal and Cereal/Legume-Based Products AJ. Meat and Poultry Products AK. Fish and Shellfish Products AM. Beverages
	1.09 Microbiological test on packaging materials .01 Aerobic plate count
	1.13 Microbial test of waters, including effluents .01 Heterotrophic plate count .02 Yeast and mold count .03 E. coli count BA. Potable waters BB. Non potable water BG. Swimming and spa pools

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

ATEL-2-0819-081D

APPROVED SIGNATORIES

Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

Gen. Santos Ave., Bicutan, Taguig City

Name	Program/Class of Test Microbiological Testing
Marlon A. Aguinaldo Gemma T. Rondario Agnes P. de Asis Alexis John C. Movida	1.18 Others Plant extracts, Non-Food / Non Pharma Products

*The List of PAB Approved Signatories is valid until **23 December 2023** subject to continuing conformity with the criteria and PAB conditions for accreditation.*

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2005-081D

Philippine Accreditation Bureau

ATEL-2-0516-191B

APPROVED SIGNATORIES

Physical and Performance Testing Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Name	Program/Class of Test Mechanical Testing
Adelaida G. Senica Ner C. Rodriguez Mary Ann P. Peredo Elizabeth O. Santos Imelda B. Mendoza Paul Eric C. Maglalang Kenneth B. Tria Mojahid Acmad S. Magandia Erish T. Daraciang	4.08 Rubber and rubber products .01 Tension test .02 Tear test .04 Compression set tests .05 Harness test .12 Other test Abrasion Ozone Resistance Test
	4.17 Plastic and plastic products .01 Tension test .02 Tear test .05 Harness test .09 Flow properties (Melt flow rate) .11 Other test Flexural Test Abrasion Test

The List of PAB Approved Signatories is valid until ***03 March 2021*** *subject to continuing conformity with the criteria and PAB conditions for accreditation.*

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2011-191B

Issued Date: August 1, 2019

Rev. 2

Republic of the Philippines
Department of Agriculture
BUREAU OF ANIMAL INDUSTRY
Visayas Avenue, Diliman, Quezon City

Animal Welfare Registration

CERTIFICATE

Issued to

DOST – ITDI (LABORATORY ANIMAL RESOURCE CENTER)

LAF - 0801
General Santos Avenue, Bicutan, Taguig

This facility is registered with the Bureau of Animal Industry pursuant to the provisions of the Republic Act 8485 otherwise known as Animal Welfare Act of 1998, as amended by Republic Act 10631

Animal Facility:	Date of Certification:	Valid until:
Laboratory Animal Facility (Breeder)	23 January 2018	23 January 2021

Approved By:

RONNIE D. DOMINGO, DVM, MSc
Officer-in-Charge, Director

By the Authority of the Director

ARLENE ASTERIA V. VYTIACO
Officer-in-Charge
Animal Health and Welfare Division

Republic of the Philippines
Department of Agriculture
BUREAU OF ANIMAL INDUSTRY
Visayas Avenue, Diliman, Quezon City

Animal Welfare Registration

CERTIFICATE

Issued to

DOST – ITDI (BIOLOGICAL RESEARCH & TESTING FACILITY)

LAF - 0802
General Santos Avenue, Bicutan, Taguig

This facility is registered with the Bureau of Animal Industry pursuant to the provisions of the Republic Act 8485 otherwise known as Animal Welfare Act of 1998, as amended by Republic Act 10631

Animal Facility:	Date of Certification:	Valid until:
Laboratory Animal Facility	23 January 2018	23 January 2021

Approved By:
RONNIE D. DOMINGO, DVM, MSc
Officer-in-Charge, Director

By the Authority of the Director

ARLENE ASTERIA V. VYTIACO
Officer-in-Charge
Animal Health and Welfare Division

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

Certificate of Accreditation

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2005** and the PAB conditions for laboratory accreditation in the field of **Biological Testing** as specified in the Scope of Accreditation.

This accreditation demonstrates technical competence for the specified scope in Appendix No. **ATEL-1-0819-081D** and the operation of a laboratory quality management system that meets the principles of ISO 9001.

This Certificate is valid until **23 December 2023** subject to continuing conformity with the criteria and PAB conditions for laboratory accreditation.

Issued this 20th day of August 2019 at Makati City, Philippines.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2005-081D

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES AND SERVICES REGULATORY BUREAU

CERTIFICATE OF ACCREDITATION

Owner	: Department of Science and Technology
Name of Facility	: **CHEMISTRY LABORATORY-STANDARDS AND TESTING DIVISION**
Type of Facility	: Laboratory for Drinking Water Analysis
Location	: Saliksik St., DOST Complex, Gen. Santos Avenue Bicutan, Taguig City, Metro Manila
Accreditation Number	: 13-029-1820-LW-1
Validity of Accreditation	: 01 October 2018 – 31 December 2020

Services Offered:
Physical Analysis

Chemical Test for:

Cadmium	Copper
Flouride	Iron
Lead	Manganese
Total Mercury	Sodium
Nickel	Zinc
Nitrate (NO_3)	Silicon
Nitrate (NO_2)	Sulfate
Chloride	

By Authority of the Secretary of Health:

ATTY. NICOLAS B. LUTERO III, CESO III
Director IV

This accreditation is renewable every three(3) years and subject to suspension or revocation if the facility is found violating AO 2006-0024 and related issuances.

Republic of the Philippines
Department of Health
FOOD AND DRUG ADMINISTRATION
Civic Drive, Filinvest Corporate City, Alabang, Muntinlupa City, 1781 Philippines

This

Certificate of Accreditation

Laboratory Accreditation No. FDALA-2018-002

is awarded to

Standards and Testing Division – Industrial Technology Development Institute, Department of Science and Technology

Department of Science and Technology Compound, Gen. Santos Avenue, Bicutan, Taguig City

After having been assessed and found in compliance with FDA requirements and conditions for Laboratory Accreditation in accordance with the provisions of RA 9711, also known as the Food and Drug Administration Act of 2009.

SCOPE OF ACCREDITATION: CHEMICAL AND MICROBIOLOGICAL TESTING

This Certificate is valid until 17 February 2021, subject to continuing conformity with conditions and criteria for Laboratory Accreditation.

In testimony whereof, I have hereunto signed this Certificate this 06th day of December 2018.

BY AUTHORITY OF THE DIRECTOR GENERAL

JOCELYN E. BALDERRAMA, RPh, MBA
Director II, Common Services Laboratory

FDA-0124503

Philippine Accreditation Bureau

Certificate of Accreditation

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Inorganic Chemistry Section-Chemistry Laboratory
Standard and Testing Division
Industrial Technology Development Institute
DOST Compound, Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2005** and the PAB conditions for laboratory accreditation in the field of **Chemical Testing** as specified in the Scope of Accreditation.

This accreditation demonstrates technical competence for the specified scope in Appendix No. **ATEL-1-1215-284A** and the operation of a laboratory quality management system that meets the principles of ISO 9001:2008.

This Certificate is valid until **22 December 2020** subject to continuing conformity with the criteria and PAB conditions for laboratory accreditation.

Issued this 23rd day of December 2015 at Makati City, Philippines.

ERNANI M. DIONISIO
Director III
Philippine Accreditation Bureau

PAB

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2015-284A

08

Philippine Accreditation Office

Certificate of Accreditation

The Philippine Accreditation Office, Department of Trade and Industry, grants accreditation to

Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
Gen. Santos Ave., Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2005** and the PAO conditions for laboratory accreditation in the field of **Microbiological Testing** as specified in the Scope of Accreditation.

This accreditation demonstrates technical competence for the specified scope in Appendix No. **ATEL-1-1113-081C** and the operation of a laboratory quality management system that meets the principles of ISO 9001:2008.

This Certificate is valid until **23 December 2018** subject to continuing conformity with the criteria and PAO conditions for laboratory accreditation.

Issued this 4th day of November 2013 at Makati City, Philippines.

ERNANI M. DIONISIO
Officer-in-Charge
Philippine Accreditation Office

PAO ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2005-081C

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

Certificate of Accreditation

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

Physical and Performance Testing Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2005** and the PAB conditions for laboratory accreditation in the field of **Mechanical Testing** as specified in the Scope of Accreditation.

This accreditation demonstrates technical competence for the specified scope in Appendix No. **ATEL-1-0516-191B** and the operation of a laboratory quality management system that meets the principles of ISO 9001:2008.

This Certificate is valid until **03 March 2021** subject to continuing conformity with the criteria and PAB conditions for laboratory accreditation.

Issued this 13th day of May 2016 at Makati City, Philippines.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

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PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2011-191B

PHILIPPINE ASSOCIATION FOR LABORATORY ANIMAL SCIENCE

presents this

ACHIEVEMENT OF PALAS ACCREDITATION

to

BIOLOGICAL RESEARCH & TESTING FACILITY

Industrial Technology Development Institute
Department of Science and Technology

DOST Cpd., General Santos Avenue, Bicutan, Taguig City

May 2016

Joseph S. Masangkay, DVM, PhD
Chairman, Accreditation Board

Ranier B. Villanueva, MD.
President

PALAS is duly recognized by the Department of Agriculture, Bureau of Animal Industry as an association that accredits animal facilities in the Philippines pursuant to Republic Act No. 8485 known as the "Animal Welfare Act of 1998".

Republic of the Philippines
Professional Regulation Commission
Manila

The
PROFESSIONAL REGULATORY BOARD OF CHEMISTRY

hereby grants this

Certificate of Authority to Operate

Pursuant to the powers vested in the Board of Chemistry under Sections 7g and 36 of Republic Act No. 10657, the

DOST - INDUSTRIAL TECHOLOGY DEVELOPMENT INSTITUTE
STANDARDS AND TESTING DIVISION

DOST Compound, Gen. Santos Avenue, Bicutan Taguig City

has been found to meet the requirements of the said Act and the Rules and Regulations of the Board.

In view whereof, this Certificate of Authority to Operate No. 010 *is issued with all the rights and privileges appertaining thereto, this* 26th *day of* February *20*18*, at Manila, Philippines.*

This Certificate shall be valid for three (3) years from the date of issue unless earlier revoked or suspended by the Board.

APResurreccion
ADORACION P. RESURRECCION
Chairperson

Approved:

TEOFILO S. PILANDO, JR.
Commission Chairman

SID-BOC-04
Rev.00
May 9, 2017

Republic of the Philippines
Professional Regulation Commission
Manila

CPD COUNCIL OF CHEMISTRY

awards this

Certificate of Accreditation

to

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

STD Bldg., Saliksik St., Department of Science and Technology Complex, Gen. Santos Ave., Bicutan, Taguig City

For having completed the requirements for
Continuing Professional Development (CPD) as CPD Provider
in accordance with the "Implementing Rules and Regulations (IRR) of Republic Act No. 10912, otherwise known as the CPD Act of 2016" set forth by the ***PROFESSIONAL REGULATION COMMISSION***
in Resolution No. 1032, Series of 2017

Accreditation No. CHM-2019-026

Given this 19th day of March 2019.
Expires on 18 March 2022.

APResurreccion
ADORACION P. RESURRECCION
Chairperson

Philippine Accreditation Bureau

ATEL-1-0819-081C

SCOPE OF ACCREDITATION

Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
Gen. Santos Ave., Bicutan, Taguig City

Biological Testing

Products / Class of Test	Specific tests or Measurements	Standard Method / Reference Standard
1.04 Tests on cosmetics, perfumes and essential oils		
.01 Microbial limits (.01)	Aerobic Plate Count	BAM, on-line 2017
1.05 Microbiological tests on foods and beverages		
.01 Microbial count (.01, .09)	Aerobic Plate count Yeast and Mold count	BAM Online 2001
.02 Indicator microorganisms (.02, .04)	Coliform count *E. coli count*	BAM Online 2002
.03 Pathogens (.02, .07) AE. Fruits, Vegetables, Nuts and Seeds AG. Cereal and Cereal Products/Legume-Based Products AJ. Meat and Poultry Products AK. Fish and Shellfish Products AM. Beverages	*S. aureus count*	BAM Online 2002
	Salmonella detection	BAM Online 2001
1.09 Microbiological test on Packaging Materials		
(.01)	Aerobic Plate Count	CMMEF 5th ed., 2015
1.13 Microbial Test of Waters including Effluents		
(.01, .02, .03) BA. Potable waters BB. Non potable waters BG. Swimming and spa pools	Heterotrophic plate count Coliform count E. coli count	SMEWW 22nd edition, 2012

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

ATEL-1-0819-081C

SCOPE OF ACCREDITATION

Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
Gen. Santos Ave., Bicutan, Taguig City

Products / Class of Test	Specific tests or Measurements	Standard Method / Reference Standard
1.18 Others		
Plant extracts, Non-Food Non Pharma Products	Aerobic Plate Count	CMMEF 5th ed. 2015 AOAC 18th ed. 2005

Legend to Reference Standards:

AOAC	-	Association of Official Analytical Chemists
BAM	-	Bacteriological Analytical Manual
CMMEF	-	Compendium of Methods for the Microbiological Examination of Foods
SMEWW	-	Standard Methods for the Examination of Water and Wastewater

*This Scope of Accreditation is valid until **23 December 2023** subject to continuing conformity with the criteria and PAB conditions for accreditation.*

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2005-081D

Philippine Accreditation Bureau

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

ATEL-1-1215-284A

SCOPE OF ACCREDITATION

Inorganic Chemistry Section-Chemistry Laboratory
Standard and Testing Division
Industrial Technology Development Institute
DOST Compound, Gen. Santos Ave., Bicutan, Taguig City

Chemical Testing

Products/ Class of Test	Specific tests or Measurements	Standard Method/ Reference Standard
2.33 Waters		
.01 Water potable and domestic purposes .02 Drinking water .03 Water for irrigation and stock .04 Water for industrial and steam-raising purposes .05 Sewage .06 Industrial waste .07 Saline water .08 Bore waters .09 Water for aquaculture .11 Other waters	Chlorine, Residual	SMEWW, 22nd ed., 2012 (4500-Cl B)
	Chloride	SMEWW, 22nd ed., 2012 (4500-Cl^- B, Titrimetric)
	Phosphorous	SMEWW, 22nd ed., 2012 (4500-P C)
	Chloride	SMEWW, 22nd ed., 2012 (4110B, Ion-Chromatography)
	Nitrite	
	Nitrate	
	Phosphate	
	Sulfate	
	Alkalinity	SMEWW, 22nd ed., 2012 (2320B)
	pH	SMEWW, 22nd ed., 2012 (4500-H^+ B)
	Color	SMEWW, 22nd ed., 2012 (2120C)
	Total Dissolved Solids	SMEWW, 22nd ed., 2012 (2540C)
	Total Suspended Solids	SMEWW, 22nd ed., 2012 (2540D)
	Total Solids	SMEWW, 22nd ed., 2012 (2540B)
	Turbidity	SMEWW, 22nd ed., 2012 (2130B) TM-ICS-A015 In-House Method
	Conductivity	SMEWW, 22nd ed., 2012 (2510B)
	Total Hardness	SMEWW, 22nd ed., 2012 (2340C)
	Mercury, total (by CV-AFS)	BS EN 13506:2002
	Nitrite	SMEWW 22nd ed. 4500-NO2-B
2.36 Constituents of the Environment		
.01 Water other than saline .02 Saline waters	Chlorine, Residual	SMEWW, 22nd ed., 2012 (4500-Cl B)
	Chloride	SMEWW, 22nd ed., 2012 (4500-Cl^- B, Titrimetric)
	Phosphorous	SMEWW, 22nd ed., 2012 (4500-P C)

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

ATEL-1-1215-284A

SCOPE OF ACCREDITATION

Inorganic Chemistry Section-Chemistry Laboratory
Standard and Testing Division
Industrial Technology Development Institute

DOST Compound, Gen. Santos Ave., Bicutan, Taguig City

Products/ Class of Test	Specific tests or Measurements	Standard Method/ Reference Standard
	Chloride	SMEWW, 22nd ed., 2012 (4110B, Ion-Chromatography)
	Nitrite	
	Nitrate	SMEWW, 22nd ed., 2012 (4110B, Ion-Chromatography)
	Phosphate	
	Sulfate	
	Alkalinity	SMEWW, 22nd ed., 2012 (2320B)
	pH	SMEWW, 22nd ed., 2012 (4500-H^+ B)
	Color	SMEWW, 22nd ed., 2012 (2120C)
	Total Dissolved Solids	SMEWW, 22nd ed., 2012 (2540C)
	Total Suspended Solids	SMEWW, 22nd ed., 2012 (2540D)
	Total Solids	SMEWW, 22nd ed., 2012 (2540B)
	Turbidity	SMEWW, 22nd ed., 2012 (2130B)
		TM-ICS-A015 In-House Method
	Conductivity	SMEWW, 22nd ed., 2012 (2510B)
	Total Hardness	SMEWW, 22nd ed., 2012 (2340C)
	Mercury, total (by CV-AFS)	BS EN 13506:2002
	Nitrite	SMEWW 22nd ed. 4500-NO2-B

Legends to Reference Standards:
SMEWW - Standard Method for the Examination of Water and Wastewaters

This Scope of Accreditation is valid until ***22 December 2020*** *subject to continuing conformity with the criteria and PAB conditions for accreditation.*

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2015-284A

Issued Date: August 1, 2019 **Rev. 3**

Philippine Accreditation Bureau

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

ATEL-1-0516-191B

SCOPE OF ACCREDITATION

Physical and Performance Testing Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Mechanical Testing

Product/ Class of Test	Specific Tests or Measurements	Method Used/ Reference Standard
4.08 Rubber and rubber products		
.01 Tension test	Tension test	ASTM D412-06ae2/ ISO 37
.02 Tear test	Tear Test	
.04 Compression set tests	Compression Set Test	ASTM D395/ ISO 815
.05 Hardness test	Hardness test	ASTM D2240-06
.12 Other test	Abrasion	TM-PPTL-009 In-house Method
	Ozone Resistance Test	PNS ISO 1431-1
4.17 Plastic and plastic products		
.01 Tension test	Tension test	ASTM D882-09/ ASTM D638-08
.02 Tear test	Tear test	ASTM D1004
.05 Hardness test	Hardness test	ISO 868-03
.09 Flow properties	Flow properties (Melt flow rate)	ASTM D1238-04c
.11 Other test	Flexural Test	ASTM D790/ISO 178
	Abrasion Test	TM-PPTL-009 In-house Method

Legend to Reference Standards:
ASTM - American Society for Testing Materials
ISO - International Organization for Standardization

*This Scope of Accreditation is valid until **03 March 2021** subject to continuing conformity with the criteria and PAB conditions for accreditation.*

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

Issued Date: August 1, 2019

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2011-191B

Rev. 2

Philippine Accreditation Bureau

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

ATEL-1-0516-190B

SCOPE OF ACCREDITATION

Organic Chemistry Section - Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology

DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Chemical Testing

Product/ Class of Test	Specific Tests or Measurements	Method Used/ Reference Standard
2.26 Foods		
.01 Cereals products	Ash	Method 945.18, 923.03 AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 945.15, 925.09B AOAC International, 19th ed., 2012
.02 Nuts and nut products	Ash	Method 950.49, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 925.40, AOAC International, 19th ed., 2012
.03 Dairy products	Ash	Method 945.46 and 920.108, 930.30 AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 969.35, 925.07 AOAC International, 19th ed., 2012
.04 Meat, poultry and derived products	Ash	Method 920.153 and 920.108, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 950.46B, AOAC International, 19th ed., 2012
.05 Fish crustaceans and mollusks and derived products	Ash	Method 938.08, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 952.08, AOAC International, 19th ed., 2012

ATEL-1-0516-190B

SCOPE OF ACCREDITATION

Organic Chemistry Section - Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Product/ Class of Test	Specific Tests or Measurements	Method Used/ Reference Standard
.06 Sugar and Sugar Products	Ash	900.02 AOAC International, 19th ed., 2012
	Fat	TM-OCS-304 In-house Method
	Moisture	925.45A, 925.45B, 925.45C, 925.45D AOAC International, 19th ed., 2012
.07 Confectionary	Ash	900.02 AOAC International, 19th ed., 2012
	Fat	TM-OCS-304 In-house Method
	Moisture	925.45A, 925.45B, 925.45C, 925.45D AOAC International, 19th ed., 2012
.08 Fruits, jams and other fruit products	Ash	Method 940.26, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 934.06, AOAC International, 19th ed., 2012
	Benzoic Acid	In-house Validated Method: (TM-OCS-201, Gravimetric)
	Sorbic Acid	(TM-OCS-202, Volumetric) In-house Validated Method: (TM-OCS-202, Volumetric)
	Titratable Acidity	Method 942.15, AOAC International, 19th ed., 2012
	pH	Method 945.27, AOAC International, 19th ed., 2012
.09 Vegetables and vegetable products	Ash	Method 925.5, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)

ATEL-1-0516-190B

SCOPE OF ACCREDITATION

Organic Chemistry Section - Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Product/ Class of Test	Specific Tests or Measurements	Method Used/ Reference Standard
	Moisture	Method 930.04, AOAC International, 19th ed., 2012
.11 Softdrinks and Cordials	Ash	950.14 AOAC International, 19th ed., 2012
	Fat	TM-OCS-304 In-house Method
	Moisture	925.45D AOAC International, 19th ed., 2012
.12 Fruit juices, drinks and concentrates	Benzoic Acid	In-house Validated Methods: (TM-OCS-201, Gravimetric) (TM-OCS-202, Volumetric)
	Sorbic Acid	In-house Validated Method: (TM-OCS-202, Volumetric)
	Acidity	Method 942.15, AOAC International, 19th ed., 2012
	pH	Method 945.27, AOAC International, 19th ed., 2012
	Ash	950.14 AOAC International, 19th ed., 2012
	Fat	TM-OCS-304 In-house Method
	Moisture	925.45D AOAC International, 19th ed., 2012
.15 Eggs and Eggs Product	Fat	TM-OCS-304 In-house Method
	Moisture	925.30 AOAC International, 19th ed., 2012
.20 Other Food Products (Flour, Baked Products, Coffee & Tea/Roasted Coffee)	Ash	923.03, 935.39, 920.93/920.10 AOAC International, 19th ed., 2012
	Fat	TM-OCS-304 In-house Method

ATEL-1-0516-190B

SCOPE OF ACCREDITATION

Organic Chemistry Section - Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Product/ Class of Test	Specific Tests or Measurements	Method Used/ Reference Standard
	Moisture	925.09, 925.10, 935.39, 968.11, 979.12/925.19 AOAC International, 19th ed., 2012
.24 Sauces, spices and condiments	Ash	Method 941.12A, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	PNS 274:1993
	Benzoic Acid	In-house Validated Methods: (TM-OCS-201, Gravimetric) (TM-OCS-202, Volumetric)
	Sorbic Acid	In-house Validated Method: (TM-OCS-202, Volumetric)
	Acidity	Method 930.35, AOAC International, 19th ed., 2012
	pH	Method 945.27, AOAC International, 19th ed., 2012
.25 Food supplement and/or Dietary supplement	Ash	Method 925.5, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 930.04, AOAC International, 19th ed., 2012
2.32 Agriculture products and materials		
.01 Cereal grains and by-products	Ash	Method 945.18, AOAC International, 19th ed., 2012
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 945.15, AOAC International, 19th ed., 2012
.03 Stock Feeds	Ash	Method 942.05, AOAC International, 19th ed., 2012

DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

Philippine Accreditation Bureau

ATEL-1-0516-190B

SCOPE OF ACCREDITATION

Organic Chemistry Section - Chemistry Laboratory
Standards and Testing Division
Industrial Technology Development Institute
Department of Science and Technology
DOST Compound, Gen. Santos Avenue, Bicutan, Taguig City

Product/ Class of Test	Specific Tests or Measurements	Method Used/ Reference Standard
	Fat	AOAC International, 19th ed., 2012; BUCHI (Fat)
	Moisture	Method 930.15, AOAC International, 19th ed., 2012

Legends to Reference Standards:

AOAC	-	Association of Official Analytical Chemists
BUCHI (Protein)	-	BUCHI Kjeldahl Digestion Manual Application Note and Operation Manual BUCHI Protein Digestor K-437 and BUCHI Distillation Unit B-316
BUCHI (Fat)	-	BUCHI Operation Manual Extraction Unit E-816 SOX, Version A 1.2 BUCHI Operation Manual Hydrolysis Unit E-416, Version D

*This Scope of Accreditation is valid until **17 February 2021** subject to continuing conformity with the criteria and PAB conditions for accreditation.*

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau

PAB

PAB ACCREDITED TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2011-190B