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 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 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

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 Mahnke
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.

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

dti
DEPARTMENT OF TRADE & INDUSTRY PHILIPPINES

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

dti
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

PAB

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.

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

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

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