



Hydrophobicity Analysis Services (Water Contact Angle Measurement)

[Scope of Services](#) · [Sample Submission Guidelines](#) · [Frequently Asked Questions](#)

Effective 2026 De La Salle University Manila www.inanolab.com admin@inanolab.com 0929 805 1084

The i-Nano Research Facility at De La Salle University Manila provides professional Contact Angle and Hydrophobicity Analysis services to support academic research, materials characterization, and surface science applications. All analyses are performed using the **Biolin Scientific Attension Theta Lite**, a compact and accurate contact angle meter. This document outlines the scope of services, sample submission guidelines, and answers to frequently asked questions.

TABLE OF CONTENTS

1	Scope of services	2
2	Sample submission guidelines	3
3	Submission & payment procedures	4
4	Frequently asked questions	5-6

CONTACT INFORMATION

Laboratory coordinator
Dr. James Salveo L. Olarve

Mobile
0929 805 1084

Email
admin@inanolab.com

Website
www.inanolab.com

1 Scope of services

Attension Theta Lite

SERVICE PACKAGE

Contact angle analysis

Hydrophobicity & Surface Wettability Measurement

Static contact angle measurement using the sessile drop method to determine surface wettability and hydrophobicity of solid samples.

- ✓ 5 droplet replicates at different positions
- ✓ Droplet volume: $2.0 \pm 0.5 \mu\text{L}$
- ✓ Single calculated contact angle value per replicate
- ✓ OneAttension Experiment Report (via OneAttension software)
- ✓ Quick turnaround: 2–3 working days
- ✓ Deionized water as test liquid
- ✓ Controlled temperature: 20–25°C
- ✓ Raw data files delivered via email
- ✓ Official Certification of Analysis

⚠ **Not included:** Image processing, annotation, interpretation, and analysis of contact angle data. These remain the sole responsibility of the researcher.

EQUIPMENT SPECIFICATIONS

Brand	Biolin Scientific Attension
Model	Theta Lite
Type	Compact contact angle meter
Measurement method	Sessile drop (static contact angle)
Capabilities	Contact angle measurement (sessile drop method)
Test liquid	Deionized water
Droplet volume	$2.0 \pm 0.5 \mu\text{L}$
Replicates per sample	5 droplets at different positions
Operating temperature	20–25°C
Report format	Single calculated contact angle value per measurement
Document	OneAttension Experiment Report (generated via OneAttension software)

LIMITATIONS OF SERVICE

The following are explicitly outside the scope of services: (1) image processing, annotation, or enhancement of contact angle images; (2) interpretation or discussion of wettability results; (3) guarantee of specific contact angle outcomes if limited by sample quality or surface condition; (4) measurement of liquid samples or non-planar substrates that cannot accommodate a stable sessile drop.

WHY CHOOSE I-NANO RESEARCH FACILITY?

 Quick turnaround Results within 2–3 working days after scheduled analysis	 Certified results Official Certification of Analysis with every service	 Affordable rates Researcher-friendly pricing at Php 1,500 per sample
 Hassle-free requests Simple and straightforward sample submission process	 Precise measurement 5 replicate droplets, each with a single calculated value	 Confidential data All results are the exclusive property of the client

2 Sample submission guidelines

SAMPLE ELIGIBILITY — SOLID FLAT SURFACES ONLY

✓ Allowed samples

- ✓ Polymer films and sheets
- ✓ Coated or treated surfaces
- ✓ Glass slides or substrates
- ✓ Metal sheets or coupons
- ✓ Fabric / textile swatches
- ✓ Paper or membrane sheets
- ✓ Ceramic tiles or flat rock
- ✓ Wood or composite boards
- ✓ Natural organic surfaces (leaves, petals, bark, and similar plant materials)

✗ Not allowed samples

- ✗ Liquid or gel-state materials
- ✗ Loose powders or granules
- ✗ Highly curved or irregular surfaces
- ✗ Wet, moist, or damp samples
- ✗ Sticky, oily, or adhesive surfaces
- ✗ Radioactive or biohazardous materials
- ✗ Toxic or corrosive substances
- ✗ Samples that react with water

- ① The laboratory reserves the right to reject samples that are wet, hazardous, excessively rough, or not in accordance with safety and testing requirements. Testing may be terminated at any point if safety risks are identified.

SAMPLE PREPARATION REQUIREMENTS

1 Surface flatness & size

Samples must have a reasonably flat, measurable surface to allow stable sessile drop formation. Recommended minimum surface area: approximately 1 cm × 1 cm. Thickness is not restricted provided the sample fits on the stage. Samples must be mounted on a clean glass slide prior to submission to ensure stable positioning during measurement.

2 Cleanliness

Surfaces must be free from oils, dust, fingerprints, and contaminants. Clean with appropriate solvents (e.g., ethanol, acetone) and allow to air-dry fully before submission. Do not apply additional coatings after cleaning unless that coating is the subject of measurement.

3 Dryness

Samples must be completely dry prior to submission. Moisture on the surface will interfere with contact angle readings and may damage the equipment. Acceptable drying methods: air drying, oven drying, or desiccator storage.

4 Packaging & labeling

Use clean, sealed containers to prevent contamination during transport. Label each container clearly with: client name, sample code or identifier, and a brief sample description if needed.

CONFIDENTIALITY & INTELLECTUAL PROPERTY

All data and results are treated as strictly confidential. Results will not be disclosed to any third party without written consent from the client. All contact angle data and reports remain the property of the client. The facility retains the right to use anonymized data for internal training purposes only, unless stated otherwise in writing.

LIABILITY

The i-Nano Research Facility shall not be liable for sample damage during handling or testing, nor for failure to obtain desired contact angle results due to sample quality limitations. The facility reserves the right to reject improperly prepared or unsafe samples and to terminate testing if risks are identified at any stage.

3 Submission & payment procedures

STEP-BY-STEP SUBMISSION PROCESS

- 1 Scheduling**
Complete the service request form at www.inanolab.com to request a contact angle analysis schedule.
- 2 Confirmation of test schedule**
Confirm your requested analysis within 24 hours of receiving the schedule email notification. Failure to confirm within this period may result in forfeiture of the reserved slot.
- 3 Down payment**
A 50% down payment (Php 750 per sample) is required to confirm the test schedule. Bank details and the delivery address will be provided upon confirmation of your request.
- 4 Prior notice before sample delivery**
Inform the facility before delivering your samples so that the necessary receiving arrangements can be made. The drop-off location is not necessarily at De La Salle University – Manila.
- 5 Sample submission**
Deliver properly packed and labeled samples to the confirmed drop-off address. Samples must comply with all eligibility and preparation requirements outlined in Section 2.
- 6 Client access policy**
For safety, quality assurance, and regulatory compliance, clients shall deliver samples only at the designated drop-off area. Entry into laboratory work areas and observation of testing procedures are not permitted.
- 7 Full payment & release of results**
Full payment (Php 1,500 per sample) must be settled prior to the release of results. Results are sent via email 2–3 working days after the scheduled analysis, subject to the absence of technical interruptions or unforeseen delays.

① All fees are exclusive of shipping costs. Clients are responsible for the cost of transporting samples to the facility.

DATA DELIVERABLES

Contact angle analysis

- ✓ Raw contact angle data (5 replicates per sample)
- ✓ Droplet images from each measurement position
- ✓ Official Certification of Analysis
- ✓ Single calculated contact angle value per replicate
- ✓ OneAttension Experiment Report (via OneAttension software)

SUMMARY OF KEY TERMS

TERM	CONDITION
Service fee	Php 1,500 per sample
Confirmation deadline	Within 24 hours of receiving the schedule notification
Down payment	50% of total service fee (Php 750) upon schedule confirmation
Full payment	Required prior to release of results
Turnaround time	2–3 working days after scheduled analysis (upon full payment)
Shipping costs	Excluded from service fee; borne by the client
Temperature control	20–25°C during measurement
Replicates	5 droplets at different positions per sample

4 Frequently asked questions

ABOUT THE SERVICES

Q What is hydrophobicity analysis?

Hydrophobicity analysis measures the wettability of a solid surface using the sessile drop method. A small droplet of deionized water is deposited on the surface, and the contact angle between the droplet and the surface is measured. A higher contact angle indicates a more hydrophobic (water-repelling) surface.

Q What equipment is used for the analysis?

All analyses are performed using the Biolin Scientific Attension Theta Lite, a compact and accurate contact angle meter for contact angle measurement using the sessile drop method.

Q What will I receive as output?

You will receive raw contact angle data from 5 replicate droplet measurements, a single calculated contact angle value per replicate, droplet images from each measurement position, a OneAttension Experiment Report (generated via OneAttension software), raw data files sent via email, and an Official Certification of Analysis.

Q Will the facility interpret my contact angle results?

No. Only raw measurements, a single calculated contact angle value per replicate, and a OneAttension Experiment Report (generated via OneAttension software) will be provided. Interpretation, discussion, and analysis of results remain the sole responsibility of the researcher.

Q Who can avail of the service?

Services are open to university researchers, graduate and undergraduate students, and industry partners. Student- and researcher-friendly rates are offered.

SAMPLE REQUIREMENTS

Q What types of samples are accepted?

Only solid samples with a flat, measurable surface are accepted. Acceptable samples include polymer films, coated surfaces, glass substrates, metal sheets, fabric swatches, paper or membrane sheets, ceramic tiles, flat wood or composite materials, and natural organic surfaces such as leaves, petals, and bark.

Q What samples are NOT accepted?

The following are not allowed: liquids or gels, loose powders, highly curved or irregular surfaces, wet or moist samples, sticky or oily surfaces, samples reactive with water, radioactive materials, biological hazards, and toxic or corrosive substances.

Q What size should my sample be?

A minimum flat surface area of approximately 1 cm × 1 cm is recommended to accommodate 5 droplet measurements at different positions. Samples must be mounted on a clean glass slide prior to submission. Please submit only the minimum amount of material necessary.

Q Does my sample need special preparation before submission?

Yes. Samples must be completely dry and free from surface contaminants (oils, dust, fingerprints). Clean with an appropriate solvent and allow full air-drying before packaging. Do not apply additional coatings after cleaning unless the coating itself is the subject of measurement.

SUBMISSION & SCHEDULING

Q How do I request an analysis?

Complete the service request form at www.inanolab.com to initiate a schedule request.

Q Where do I deliver my samples?

The delivery address will be provided upon confirmation of the service request. Please note that the drop-off location is not necessarily at De La Salle University – Manila. Always confirm the specific address before delivering samples.

Q Can clients observe the testing procedure?

No. Clients are not permitted to enter laboratory work areas or observe testing procedures. Samples must be submitted only at the confirmed drop-off location in accordance with laboratory safety protocols.

PAYMENT & FEES

Q How much does the service cost?

The service fee is Php 1,500 per sample. A 50% down payment (Php 750) is required upon confirmation of the test schedule, with the remaining balance due prior to the release of results.

Q Are shipping costs included?

No. All fees are exclusive of shipping costs. Clients are fully responsible for the cost of transporting samples to the facility.

RESULTS & TURNAROUND

Q When will I receive my results?

Results will be sent via email 2–3 working days after the scheduled analysis, subject to completion of full payment and the absence of technical interruptions or unforeseen delays.

Q What if consistent contact angle values cannot be obtained?

The facility does not guarantee specific contact angle outcomes if results are limited by sample quality, surface roughness, or contamination. Proper sample preparation — including thorough cleaning, drying, and correct sizing — remains the client's responsibility.

Q How is the final contact angle determined from the raw data?

The raw data report contains a time-series of contact angle readings recorded throughout the measurement. During the early phase of each measurement, the droplet is still being dispensed onto the surface — the volume is actively increasing and the droplet has not yet stabilized. Contact angle values recorded during this deposition phase are **not valid** and should be disregarded.

The final, valid contact angle is taken only once the droplet has fully settled and the volume is stable. The instrument's calculated result — reported as a single value in the experiment summary — is derived from this stable phase. Researchers reviewing the raw time-series data should focus on readings where the droplet volume has plateaued and contact angle values are consistent, rather than readings captured during the active dispensing stage.