



Separation & Purification Specialists

Consulting & Independent Testing Services



WHO WE ARE

Independent by design

INNOV-ADS is an independent technical consulting company specializing in separation and purification technologies. Based in Kuala Lumpur, Malaysia, we serve clients globally with laboratory & on-site testing, technology validation, and expert consulting services.

What Makes Us Different

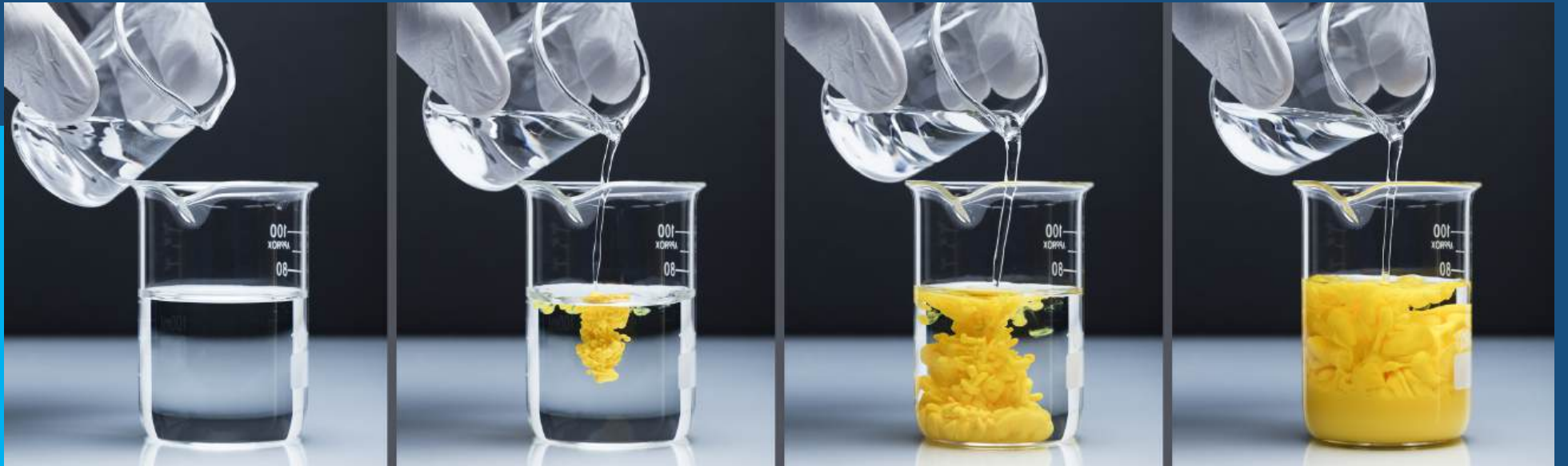
- ✓ **Supplier Neutral**
Objective evaluation with no material sales
- ✓ **Technology Agnostic**
Expertise across all purification methods
- ✓ **Industry Focused**
Practical solutions from lab to full-scale
- ✓ **Data Driven**
Rigorous testing with transparent reporting

From fundamentals to field experience

INNOV-ADS brings decades of combined experience in purification technologies, from fundamental adsorption and separation theory to laboratory testing and on-site operations.

OUR SERVICES

Comprehensive Testing Solutions



ADSORPTION TECHNOLOGIES

- Breakthrough curves & sorption isotherms
- TSA / PSA / VPSA process development
- Capacity & selectivity testing
- Adsorbent ageing & regenerability studies

MEMBRANE TECHNOLOGIES

- Comparison testing (gas or liquid)
- Permeation & hydraulic performance
- Selectivity & separation efficiency
- Proof-of-concept laboratory or on-site trials

FILTRATION TECHNOLOGIES

- Filter media benchmarking
- Filtration efficiency and retention capacity
- Coalescing & liquid performance
- Custom testing, laboratory or on-site

CATALYST TECHNOLOGIES

- Activity, selectivity and conversion screening
- Stability & deactivation
- Exposure to contaminants
- Pilot-scale catalytic bed testing

WHO WE SERVE

Trusted by Research Centers & Industry Leaders

INDUSTRIAL CLIENTS

Optimize your purification units with independent technical expertise.

- Performance troubleshooting
- Process optimization studies
- Units monitoring & lifetime prediction
- Suppliers and products qualification

MATERIAL MANUFACTURERS

Validate new products with data you can rely on.

- Rapid prototype screening
- Comparative benchmarking
- Pilot testing
- On-site performance demonstration



ENGINEERING COMPANIES

Reliable technology selection & commissioning support

- Conceptual / FEED studies
- De-risking and engineering documents analysis
- Design review and Technology comparisons
- Commissioning and start-up assistance

RESEARCH INSTITUTES

Bridge academic research with industrial validation.

- Materials benchmarking
- Joint R&D partnerships
- Access to specialized facilities
- Technology development support



HOW WE WORK

From your process to reliable results

At INNOV-ADS, we don't run generic tests.

We start from your real operating conditions, constraints, and objectives to design laboratory work that mirrors industrial reality.

Each step — from test design to data interpretation — is driven by technical rigor, transparency, and applicability to your process.

01

Consultation

Understanding your requirements & challenges

02

Testing Protocol

Design custom test plan aligned with real conditions

03

Laboratory Analysis

Rigorous testing with latest generation equipment

04

Data Interpretation

Expert analysis with actionable recommendations

05

Reporting & Support

Professional documentation and follow-up

TRACK RECORD & APPROACH

Proven Experience



**ORIGINAL TEST
METHODS
DEVELOPED**

100+

Custom protocols tailored to specific applications and industries

**PRODUCTS
TESTED &
EVALUATED**

300+

Fresh & spent adsorbents, membranes, filters & catalysts

**COUNTRIES
WE ALREADY
SERVED**

15+

Supporting clients across Asia, Europe, Middle East & Americas



Let's Discuss Your Project

Whether you need to qualify a new material, troubleshoot an existing unit, or develop a custom separation process, our team is ready to support you with independent expertise and proven methodologies.

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