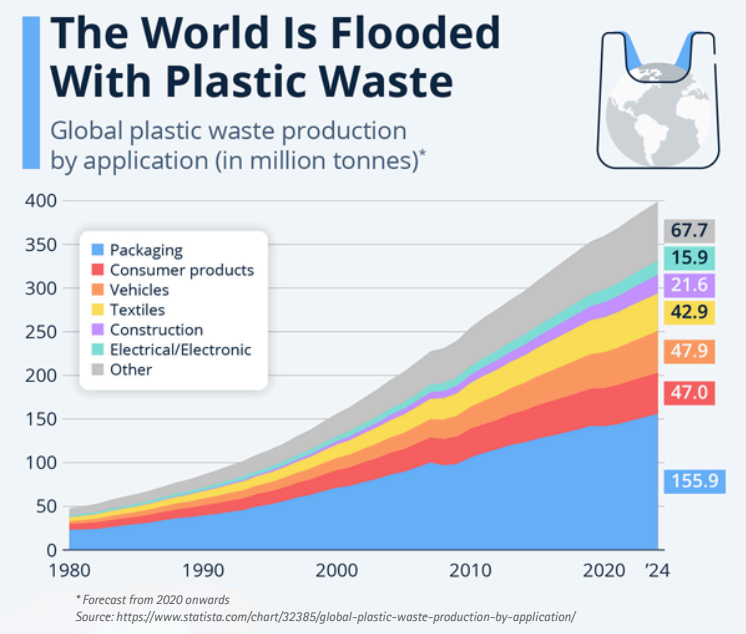
Microplastics Testing

Why Microplastics Matter

Microplastics, defined as solid plastic or synthetic polymer particles insoluble in water with the largest dimension between 1 µm and 5 mm (ISO16094-2:2025), are now ubiquitous in all environmental matrices.



Over the past decades, microplastics have accumulated globally and are now found in the environment, including our drinking water, food and air. Research has focused on understanding the extent of the problem and its toxicological impacts. The risks of microplastics include not only the particles themselves and the inherent chemicals (e.g. residual monomers, plasticisers, colourants, UV-stabilisers), but also the sorption of harmful chemicals (e.g. POPs) onto the particles in the environment, which can be released once ingested. Recent toxicological studies show that microplastics pose potential risks to human health and the environment, raising growing global concerns.

Who are We?

We are Australia's first ISO/IEC 17025-accredited microplastics laboratory, providing high-quality analytical services to identify and quantify microplastics across environmental, industrial and consumer product matrices. Our state-of-the-art laboratory combines validated methods, advanced instrumentation, global presence and experienced scientists to deliver reliable, defensible data you can trust.

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Our Capabilities in an Overview







Microplastics Identification & Quantification

- Identification of common polymers as Polyethylene (PE), Polypropylene (PP), Polystyrene (PS), Polyvinylchloride (PVC), Polyethylene Terephthalate (PET), Polycarbonate (PC), Polymethylmethacrylate (PMMA), Polyurethane (PU), Polytetrafluoroethylene (PTFE) and Polyamide (PA) by Laser Direct Infrared (LDIR) Chemical Imaging System
- Particle size analysis from **20 µm** to **5 mm**
- Reporting by **count and size class**

Sample Matrices Supported

- Water (drinking, wastewater, surface, marine)
- Soil, sediment and biosolids
- Air and deposition samples
- Food, beverages and consumer products
- Agriculture
- Aquaculture

Quality Assurance/Quality Control

- State-of-the-art dedicated microplastics laboratory
- Standardised QA/QC procedures in-line with current international standards
- Participation in all current international proficiency testing programs

Why Partner with Us?

Scientific Expertise: Leadership in microplastics research through peer-reviewed papers and conference contributions

Regulatory Awareness: Methods aligned with evolving global standards

Global Presence: Eurofins operates six additional microplastics laboratories worldwide, all equipped with state-of-the-art detection technologies, including spectroscopic methods (FTIR, Raman) and thermo-analytical techniques (Pyrolysis-GC/MS, TED-GC/MS).

Award Winning: (NATA Excellence Award, 2024 and ALGA Innovation Award, 2022)

Who do we serve?

- Environmental consultants
- Utilities and municipalities
- Regulatory and research institutions
- Manufacturers and product developers
- NGOs and sustainability teams

ilac-MRA NATA

Contact us

Whether you need routine analysis or a bespoke solution, our team is ready to support your microplastics investigation.

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Global Leader - Results You Can Trust

Laboratories & Offices

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Perth	+61 8 6253 4444	**Geelong**	+61 3 8564 5970	**Adelaide**	+61 8 8154 3100
Brisbane	+61 7 3902 4600	**Hobart**	+61 3 8564 5000	**Townsville**	+61 7 3902 4611

NATA Our laboratories are proudly accredited for a wide range of organic and inorganic chemistry analyses and microbiological testing

www.eurofins.com.au

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