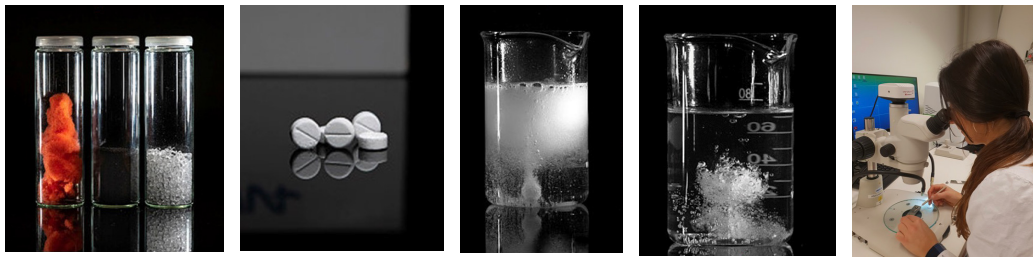


# Microplastic tablets

As part of our evolving portfolio of microplastic reference materials, known as MicroPRefs®, we are producing standardized microplastic particles in soda tablet form. The tablets contain a known number of microplastic particles of common plastic polymer types.

These tablets are user-friendly and designed to mimic an environmental sample for the reliable inter- and intra-laboratory calibrations and validations to accurately identify and quantify microplastics in environmental samples using microscopy-, spectroscopy- and mass spectrometry-based methods.

## How to use the microplastic tablets



Images courtesy of the Norwegian Institute for Water Research (NIVA)

The soda tablets are produced for counting microplastic particles in a sample using microscopy, and for accurate characterization using pyrolysis-GC/MS,  $\mu$ -FTIR,  $\mu$ -Raman or similar techniques. The tablets will support researchers in establishing the polymer types, quantity of particles present, particle size and mass of polymers present.

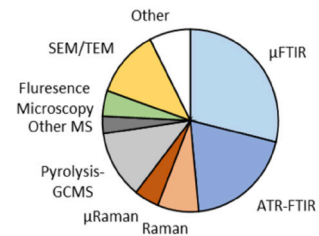


Figure 1: EUROqCHARM | Methods for tablets, sediment and sand samples. Analytical techniques employed by associated laboratories.

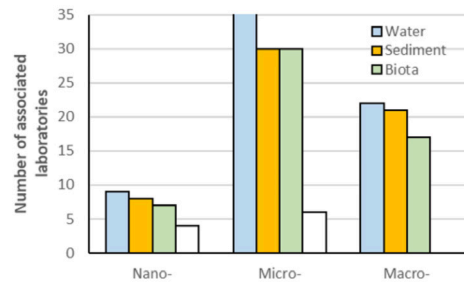
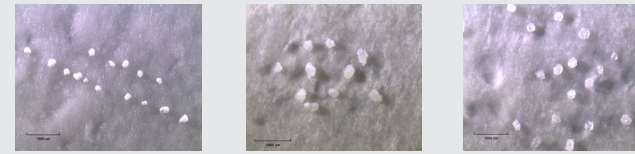


Figure 2: EUROqCHARM | Plastic size according to environmental matrix.

PRefs® has developed from the EUROqCHARM project ([www.euroqcharm.eu](http://www.euroqcharm.eu)). The project has critically reviewed state-of-the-art analytical methods and validated them through an interlaboratory comparison (ILC) study. It initiated research into methods needed for monitoring plastic pollution and we produced candidates for reference materials, now known as PRefs®, which contribute to the establishment of microplastic monitoring within the EU.

## Examples of particle appearance under microscope

Images courtesy of the Norwegian Institute for Water Research (NIVA)



PE

PET

PS



Tablets containing different types of polymers. Tablets will be delivered as pictured.

## What standards does Chiron offer?

Chiron No.	Name	Synonym	CAS
15459.X-TAB	n/a	Blank tablet for microplastic singles and mixes	n/a
15246.X-50/300-TAB	Polyethylene, microplastics 50-300 micron	PE 50-300 micron, tablet	9002-88-4
15247.X-50/300-TAB	Polyethylene terephthalate, microplastics 50-300 micron	PET 50-300 micron, tablet	25038-59-9
15248.X-50/300-TAB	Polystyrene, microplastics 50-300 micron	PS 50-300 micron, tablet	9003-53-6
15249.X-50/300-TAB	Polypropylene, microplastics 50-300 micron	PP 50-300 micron, tablet	9003-07-0
15250.X-50/300-TAB	Polyvinylchloride, microplastics, 50-300 micron	PVC 50-300 micron, tablet	9002-86-2
15251.X-50/300-TAB	Polycarbonate, microplastics 50-300 micron	PC 50-300 micron, tablet	25037-45-0

## Your Preferred supplier of microplastic reference materials

Chiron microplastic standards will be delivered as one polymer per tablet. For more information, please contact us today at [sales@chiron.no](mailto:sales@chiron.no), or scan the QR code to keep informed of product availability.



Your quality is our business

Chiron AS | Stiklestadveien 1 | N-7041 | Trondheim | Norway

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