

Patented microliter filter crucible enables time-efficient and cost-effective microplastic analytics

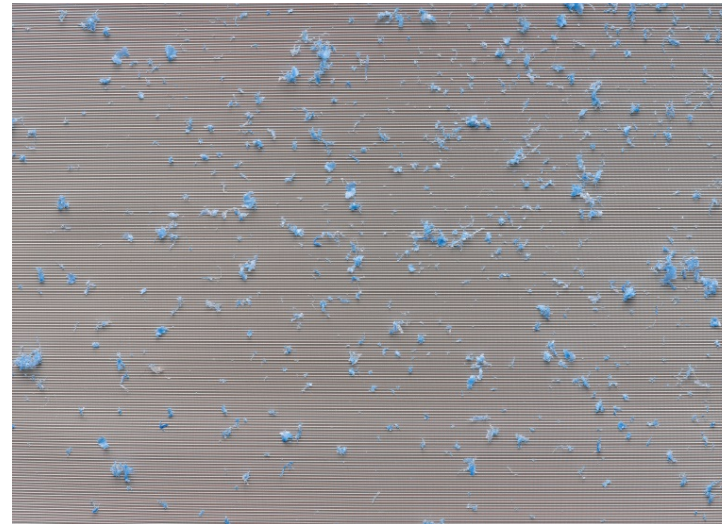
Filtration and detection in a single element



WORLD WIDE WEAVE



Picture 1: The microliter filter crucible with Optimized Dutch Weave developed by BAM, UBA and GKD for determining the mass content of microplastics in environmental media facilitates fast and reliable routine analyses, even with complex samples.



Picture 2: Optimized Dutch Weave from GKD is also suitable for high volumetric flows and does not cause any contamination due to plastic abrasion.

Picture 1,2,4,18: © GKD

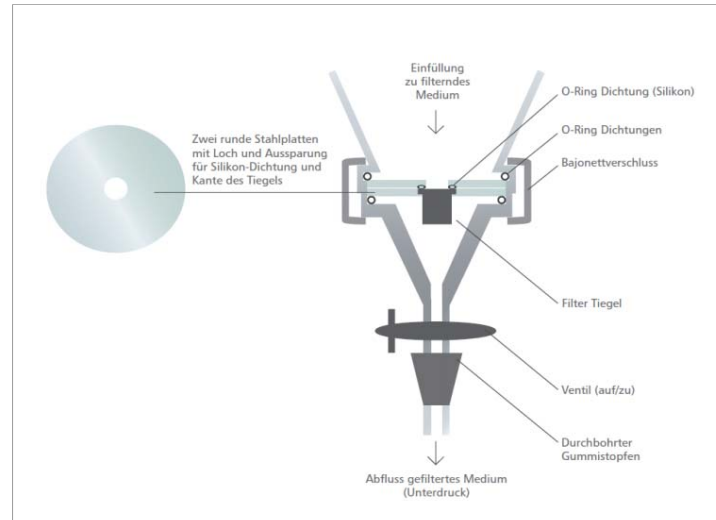
Picture 3,16: © BAM

Picture 5-15: © UBA

Picture 17: © UBA/Studioline



Picture 3: TED-GC/MS determines mass content in solid environmental samples both quickly and reliably.



Picture 4: The innovative crucible replaces the filter crucible present in the system and also serves as a filter.

We will be happy to send you the desired images in printable resolution by e-mail.

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Picture 5: Inserting the narrow sealing ring into the stainless steel filtration apparatus.



Picture 6: Insertion of the lower stainless steel disc; small graduation for the following crucible pointing upwards.



Picture 7: Base of the filtration apparatus without crucible.



Picture 8: Insertion of the microlitre filter crucible into the hole of the lower stainless steel disc. The crucible rim should rest evenly in the small graduation.



Picture 9: Base of the filtration apparatus with crucible. The crucible should be level.

Picture 1,2,4,18: © GKD

Picture 3,16: © BAM

Picture 5-15: © UBA

Picture 17: © UBA/Studioline

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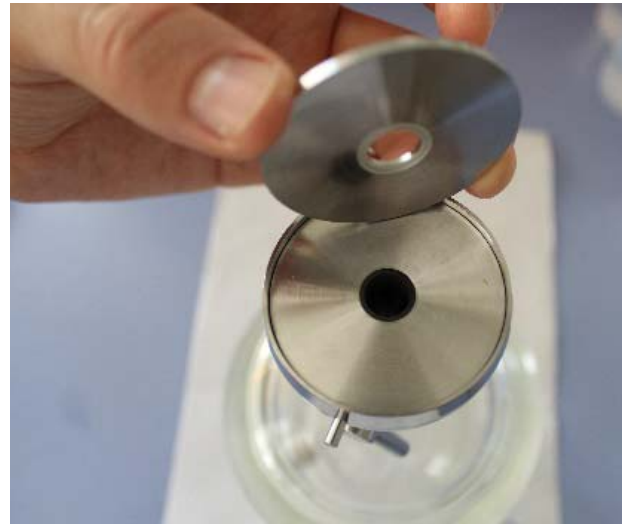
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Picture 10: Insertion of the silicone sealing ring into the recess on the underside of the upper stainless steel disc. Applying pressure with the finger.



Picture 11: Placement of the upper stainless steel disc, with the sealing ring pointing downwards, on the lower stainless steel disc.



Picture 12: Base of the filtration apparatus with enclosed crucible.

Picture 1,2,4,18: © GKD

Picture 3,16: © BAM

Picture 5-15: © UBA

Picture 17: © UBA/Studioline



Picture 13: Insertion of the wide sealing ring into the recess at the bottom of the funnel (filtration attachment).



Picture 14: Placement of the filtration attachment straight onto the base, in the grooves provided.



Picture 15: Sealing the filtration apparatus with the attached hook closure.

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Picture 16: Dr. Ulrike Braun, Team Lead in the Physical & Chemical Analysis of Polymers Department at the Federal Institute for Materials Research and Testing (BAM).



Picture 17: Dr. Claus Gerhard Bannick, Head of Wastewater Technology Research at the German Federal Environmental Agency (UBA).



Bild 18: Markus Knefel, Head of Research and Development at GKD – Gebr. Kufferath AG.

Picture 1,2,4,18: © GKD

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