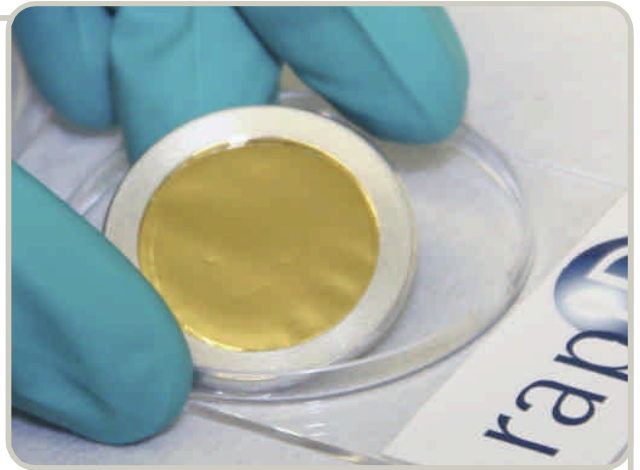


filtr.AID membrane

filtr.AID

- **Tailor-made for particle analysis,** filtr.AID membrane is the ideal substrate for microparticle analysis. Particles from any liquid/gas can be isolated using standardized membrane filtration. The active area (on which the particles are separated) is exactly defined by the filtr.AID funnel.
- Illuminated using rap.ID's darkfield technique, the particles generate an excellent contrast in the microscope image.
- With filtr.AID, qualified samples for the rap.ID Particle Explorer and rap.ID Particle Finder are prepared in just a few minutes.

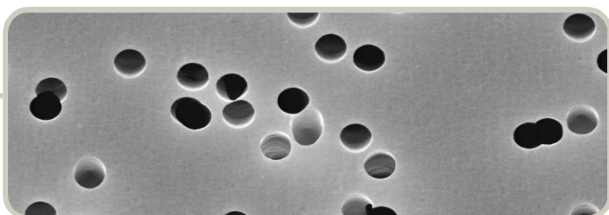


The characteristics of filtr.AID:

- **Certified Cleanliness:** filtr.AID is produced, controlled and separately packaged under cleanroom conditions. The lot inspection certificate guarantees the cleanliness to the user.
- **Flexible Samples:** Even extreme pH value substances and aggressive solvents with sample volumes ranging between only a few 100 µl and several 100 ml can be rapidly filtered using the filtr.AID funnel. For your air/gas sampling simply use the rap.ID airborne filtr.AID.
- **Precise Image Analysis:** Illuminated using rap.ID's darkfield technique, microparticles of approx. 0.5 µm and larger generate excellent contrast to the membrane surface. This method provides the ideal basis for the determination of particle size distributions using rap.ID's automatic image analysis.

Your benefits by using filtr.AID:

- **Revolution in Microspectroscopy:** The membrane was specifically developed and patented for microspectroscopy. filtr.AID renders the conventional time-consuming preparation techniques for individual microparticles, using needles and tweezers, superfluous. After separation, the microparticles remain on the membrane, thus enabling exact identification using RAMAN, IR or EDX spectroscopy.
- **Easy Handling:** An aluminum ring on the membrane edge guarantees the easiest handling during sample preparation and measuring. The sample is easy to archive and transport in the provided Petri dish.
- **Experience and Reliability:** rap.ID Particle Systems experience, manifested in development and production, ensures quality. rap.ID's partners offer worldwide service distribution.



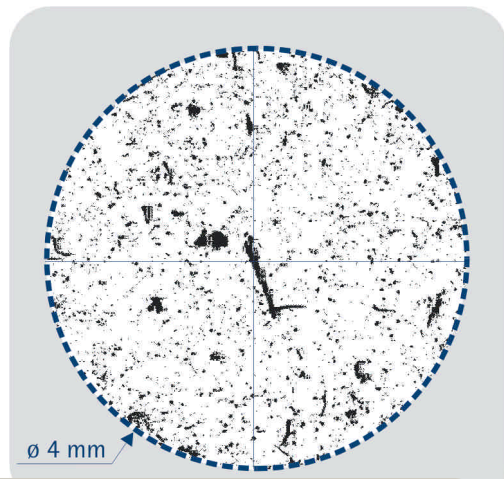
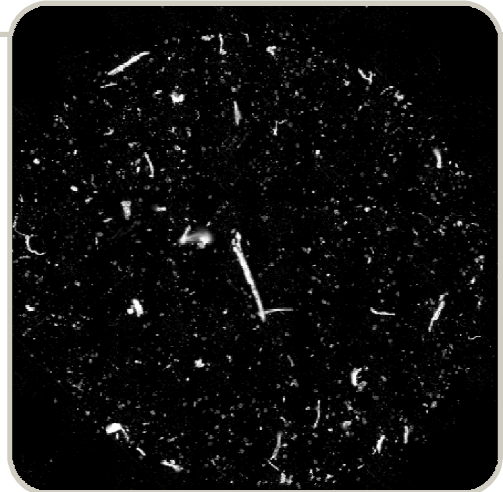
filtr.AID funnel

filtr.AID funnel

- With filtr.AID, qualified samples for the rap.ID Particle Explorer and rap.ID Particle Finder are prepared in just a few minutes.

Your benefits by using filtr.AID funnel:

- **Precise and Standardized:** Fitted to diameter of the Effective Filtration Area (on which the particles are found). The Effective Filtration Area (EFA) is user-selectable from 0.785 to 12.56 mm² (ø 1 - 18 mm).
- **Qualified Quality:** Method validation showed that more than 99% of all particles of 2 µm and bigger are separated inside this area.
- **Simple Handling:** Easy cleaning and fault-tolerant application guarantee reproducible results.



Effective Filtration Area (EFA)
ø 4 mm standard; selectable ø 1 - 18 mm

Examples of use of filtr.AID funnel and membrane:

- At any stage of the production process, from development through quality assurance, the simple qualified isolation of particles helps you to check your product or the production environment.
 - The filtr.AID membrane's immediate readiness for use facilitates sample preparation during the everyday business in a laboratory.
- Fields of Application:**
- Pharmaceutical development and quality assurance, quality assurance in automobile, semiconductor, medial and fluidbed technologies, cosmetic and electronic industries.
 - IR and SEM analysis laboratories.
 - Institutes for quality assurance and aerosol monitoring.

filtr.AID Standard Specification

filtr.AID Solvent

• Material	Polytetrafluorethylene (PTFE)
• Smallest detectable particle size	2 μm
• Stability	All organic solvents
• Pore size	0.45 μm

filtr.AID Standard

• Substrate	Polycarbonate (PC)
• Smallest detectable particle size	0.5 μm

filtr.AID Standard und Solvent

• Acid and base resistance	pH-values: 1 - 14
• Pore size	Standard: 0.8 und 3 μm Customizable from 0.2 - 10 μm
• Cleanliness	Cleanroom manufactured - Quality Certificate
• Usability	Aluminum framed
• Dimensions	Inner Diameter: \varnothing 29 mm Outer Diameter: \varnothing 33 mm

filtr.AID funnel

• Volume	10 ml or 100 ml
• Precision Effective Filtration Area (EFA)	Max. misalignment of Effective Filtration Area 0.1 mm
• Diameter Effective Filtration Area (EFA)	\varnothing 4 mm standard; selectable \varnothing 1 - 18 mm