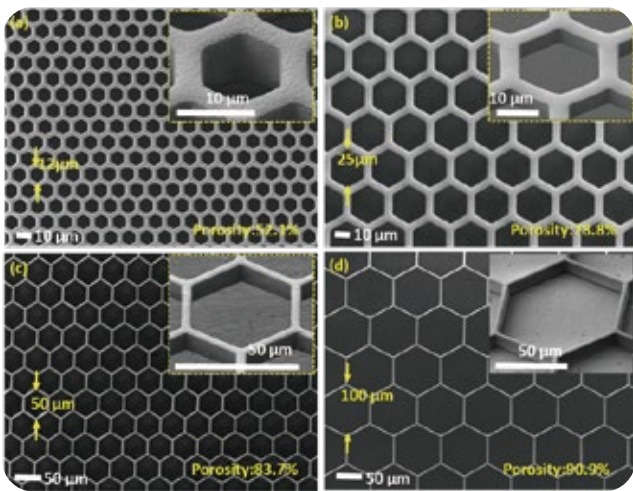


PERFECT FILTER

Precise, Efficient, Robust, Flexible,
 Easy, Controllable, Thin filter

The PERFECT Filter by HICOMP offers exceptional efficiency and sensitivity for capturing rare tumor cells and enriching low-abundance pathogens from large-volume samples. With a detection limit 1000 times lower than centrifugation, it captures cells as few as 1 in 10 mL and maintains a high viability rate of over 90%. Its versatility ensures compatibility with various downstream techniques, including dPCR, sequencing, and drug screening, making it an essential tool for advanced life sciences research.

Show Case

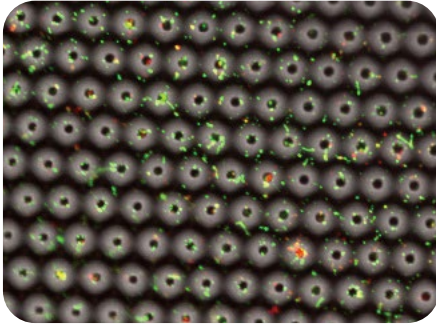


Product Specification

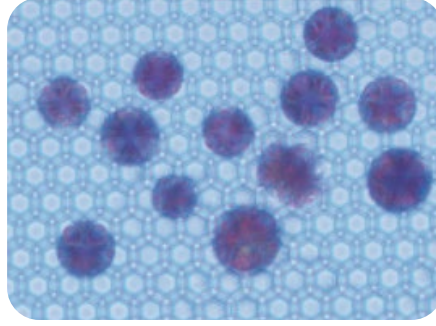
Product Model	Material	Filter Size	Thickness	Hole Shape	Hole Diameter	Porosity
PERFECT filter-100	Parylene	17*17 mm	10 µm		100 µm	90.9%
PERFECT filter-50	Parylene	17*17 mm	10 µm		50 µm	83.7%
PERFECT filter-25	Parylene	17*17 mm	10 µm		25 µm	78.8%
PERFECT filter-12	Parylene	17*17 mm	10 µm		12 µm	52.1%
PERFECT filter-10	Parylene	17*17 mm	10 µm		10 µm	51.0%
PERFECT filter-6	Parylene	17*17 mm	10 µm		6 µm	56.3%
PERFECT filter-2	Parylene	17*17 mm	10 µm		2 µm	25.0%

▶ Application

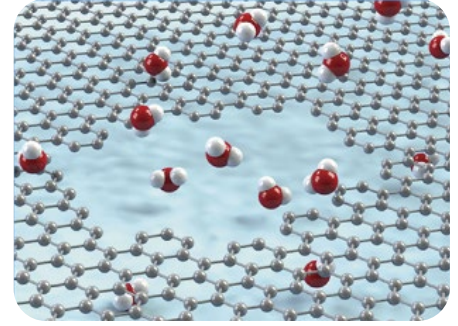
- CTC separation/culture from whole blood (~700 cases):
- Exfoliated tumor cell detection from bronchoalveolar lavage fluid (BALF, ~250 cases) for lung cancer diagnosis: sensitivity increasing to 75% from 44.6% (routine approach), Innovation grant from Merck KGaA, Germany
- Fungi detection from whole blood (105 cases): 2x sensitivity (93.33%) compared to routine blood culture (46.67%)



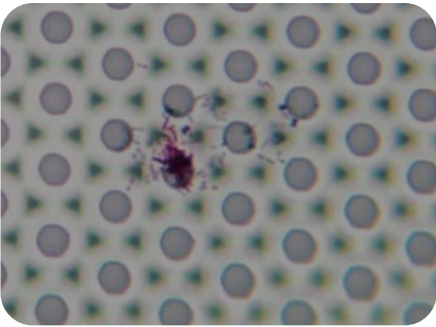
Exosome & Migrasome



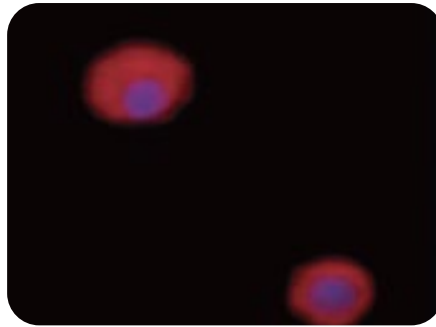
Single-Cells



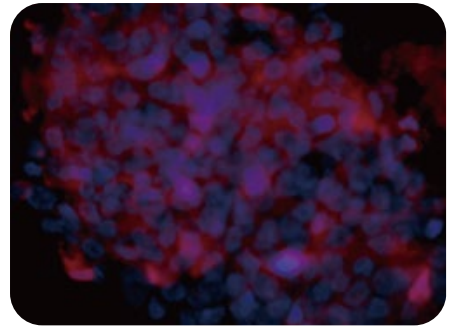
Graphene supporter



Tuberculosis (TB)



Tuberculosis (TB)



CTC culture

▶ Worldwide Partnership

Partnering with 50+ Universities, Institutes and Companies all over the world.

