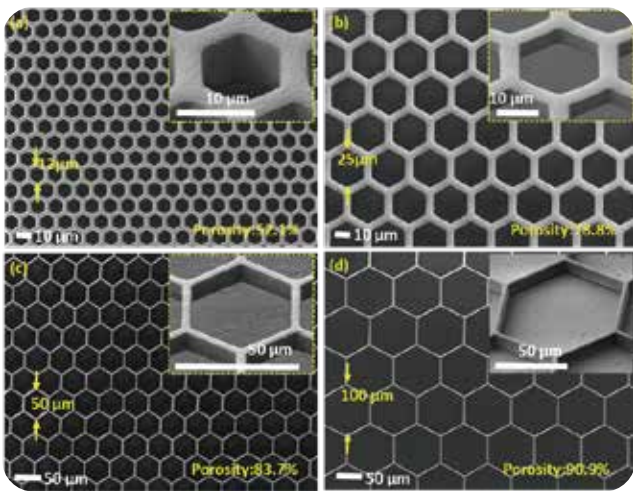


PERFECT FILTER

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

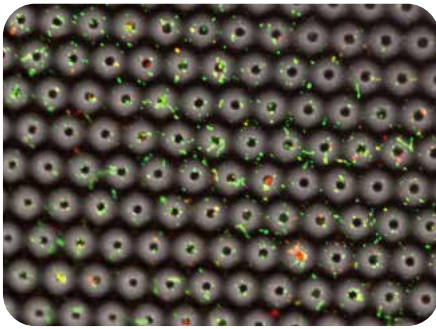


► Product Specification

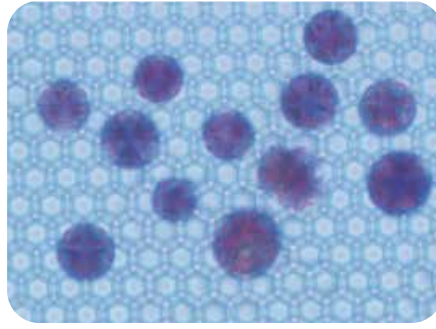
Product Model	Material	Filter Size	Thickness	Hole Shape	Hole Diameter	Porosity
PERFECT filter-100	Parylene	17*17 mm	10 µm	Hexagon	100 µm	90.9%
PERFECT filter-50	Parylene	17*17 mm	10 µm	Hexagon	50 µm	83.7%
PERFECT filter-25	Parylene	17*17 mm	10 µm	Hexagon	25 µm	78.8%
PERFECT filter-12	Parylene	17*17 mm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

▶ Application

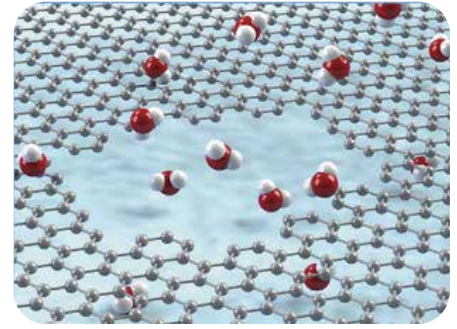
- CTC separation/culture from whole blood (~700 cases):
- Exfoliated tumor cell detection from bronchoalveolar lavage fluid (BALF, ~250 cases) for lung cancer diagnosis: sensitivity increasing to 75% from 44.6% (routine approach), Innovation grant from Merck KGaA, Germany
- Fungi detection from whole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



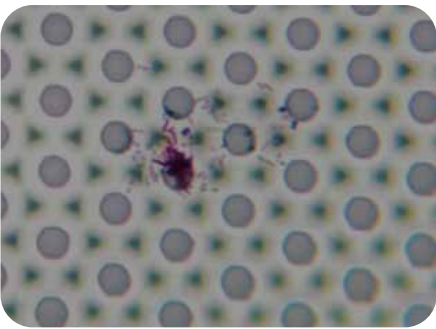
Exosome & Migrasome



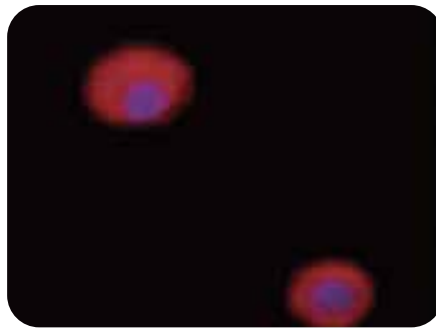
Single-Cells



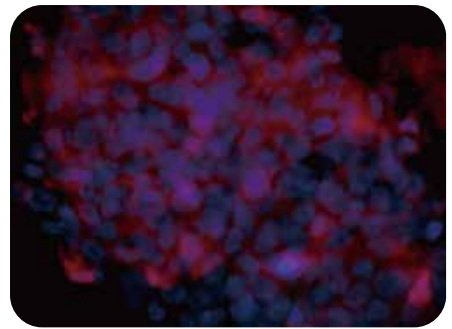
Graphene supporter



Tuberculosis (TB)



Tuberculosis (TB)



CTC culture

▶ Worldwide Partnership

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

