

NEW!
50–1,250 μ L L

Stop aerosols!

Unique two-phase filter protection with ep Dualfilter T.I.P.S.[®]

Aerosols don't stand a chance!*

ep Dualfilter T.I.P.S.[®]

Two filter layers are better than one.

Eppendorf ep Dualfilter T.I.P.S. are the first filter tips with a two-phase filter for contamination protection. The unmistakable blue and white filter layers are made of flexible, hydrophobic material to fit perfectly in the tip cone and retain practically 100 % of all aerosols* and bio-molecules (see p. 3). This unique filtering effect is achieved using various, well-defined pore sizes in the two filter layers.

The white layer that faces the sample retains drops, splashes and aerosols (see p. 3). The blue layer above it forms a highly-effective double barrier that reliably binds biomolecules.

* **Aerosol:** Aerosol particle and the air or dispersion of solid or liquid particles surrounding it in a gas, usually air.

Dual protection against contamination right from the start.

ep Dualfilter T.I.P.S. are manufactured to the highest possible quality from pure, non-recycled materials under cleanroom conditions. They are characterized by defined flow dynamics, low wettability and high thermal stability.

ep Dualfilter T.I.P.S. are sterilized by electron beams and certified pyrogen-free and PCR clean (free from human DNA, DNase, RNase and PCR-inhibiting substances).

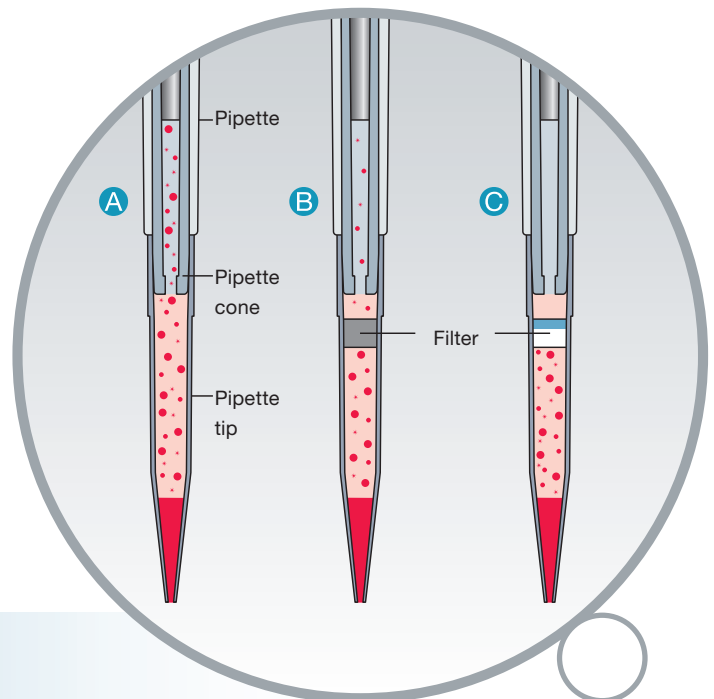
Individual batch certification can be downloaded from www.eppendorf.com

The air flow rate through the filter is the same as with single-layer filters – it simply makes your rapid pipetting tasks much safer.

The ep Dualfilter T.I.P.S. hydrophobic filter surface also enables easier and complete recovery of samples.

Product characteristics

- Two filter layers provide dual protection
- Dual protection for pipette and sample
- Dual protection from aerosols and biomolecules
- Free of PCR inhibitor additives
- Patent-pending technology
- Sterile, Eppendorf PCR clean and pyrogen-free
- Batch certified



- Without a filter **A**, the pipette is exposed to contamination by samples and aerosols. Conventional single-layer filters **B** do not fully block particles and molecules. Only ep Dualfilter T.I.P.S. **C** provide reliable protection even against the finest impurities.

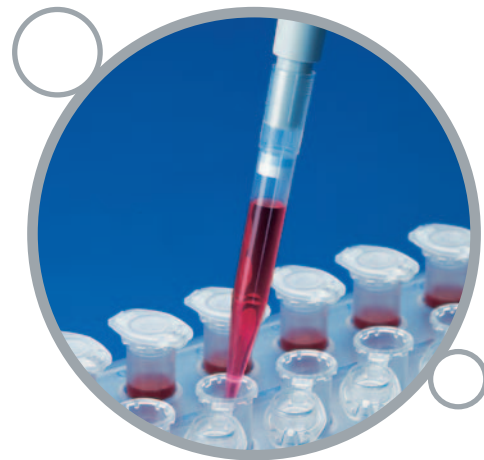
Scientifically proven

No filter protects better than ep Dualfilter T.I.P.S.[®]

Filter tips from different manufacturers were tested in a blind trial at the “Fraunhofer-Institut für Toxikologie und Experimentelle Medizin” (Fraunhofer Institute for Toxicology and Experimental Medicine – ITEM) in Hanover. Testing focused on the prevention of pipette cone contamination by aerosols. Filter effect with regard to salt aerosols and biomolecules (DNA fragments) was examined. Quantitative determination of DNA fragments was performed using real-time PCR.

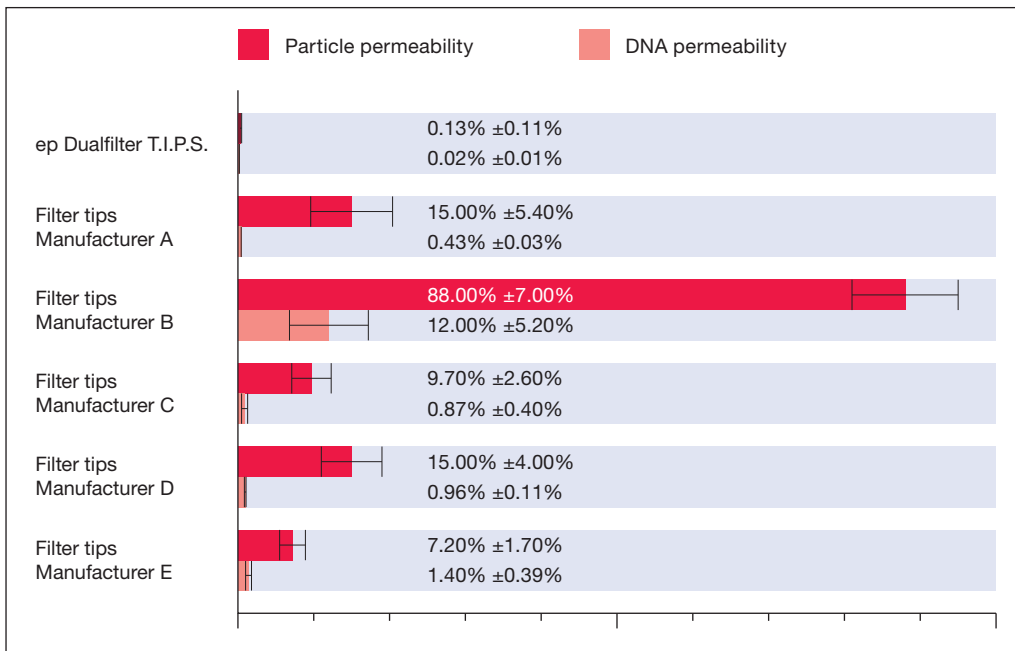
The results indicate that ep Dualfilter T.I.P.S. filter tips are much better at protecting against aerosols than other commercially available filter tips.

With regard to particle permeability, ep Dualfilter T.I.P.S. filter tips are 55 to 677 times more effective than the filter tips tested from other manufacturers. ep Dualfilter T.I.P.S. filter tips were 21 to 600 times more effective when protection against DNA fragments was examined for the first time.



Fraunhofer Institut
Toxikologie und
Experimentelle Medizin

Aerosol/particle penetration of various filter tips



Significantly better: ep Dualfilter T.I.P.S.[®]

Order information

Description	Quantity	Purity	Order no. international	Order no. North America
ep Dualfilter T.I.P.S. Racks				
0.1–10 µL S	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.504	022491202
0.1–10 µL M	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.512	022491211
0.5–20 µL L	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.520	022491229
2–20 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.539	022491270
2–100 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.547	022491237
2–200 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.555	022491296
20–300 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.563	022491245
50–1,000 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.571	022491253
ep Dualfilter T.I.P.S. Racks				
50 µL–1,250 µL L	5 × 96 = 480 tips	PCR clean/sterile/pyrogen-free	0030 077.750	022494002
100–5,000 µL	5 × 96 = 480 tips	PCR clean/sterile/pyrogen-free	0030 077.580	022491261
1–10 mL L, individually blistered	50 pieces per package	PCR clean/sterile/pyrogen-free	0030 077.598	022491288
ep Dualfilter T.I.P.S. LoRetention Racks				
0.1–10 µL S	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.610	022493000
0.5–20 µL L	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.628	022493002
2–100 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.644	022493006
20–300 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.636	022493004
50–1,000 µL	10 × 96 = 960 tips	PCR clean/sterile/pyrogen-free	0030 077.652	022493008

Technical specifications subject to change.

For more information, visit www.eppendorf.com/dualfilter

Your local distributor: www.eppendorf.com/worldwide

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