

# Eppendorf Certificate

## Certificate of Quality EPA/HEPA\* Standard of ep Dualfilter T.I.P.S.®

For the filters in the following pipette tips we hereby confirm a filter efficiency of class E12 in accordance with EN 1822.

ep Dualfilter T.I.P.S.® Racks	Order no. (international)	Order no. (North America)
0.1 - 10 µL S, 34 mm	0030 077.504	022491202
0.1 - 10 µL M, 40 mm	0030 077.512	022491211
0.5 - 20 µL L, 46 mm	0030 077.520	022491229
2 - 20 µL, 53 mm	0030 077.539	022491270
2 - 100 µL, 53 mm	0030 077.547	022491237
2 - 200 µL, 55 mm	0030 077.555	022491296
20 - 300 µL, 55 mm	0030 077.563	022491245
50 - 1000 µL, 76 mm	0030 077.571	022491253
50 - 1250 µL L, 103 mm	0030 077.750	022494002
100 - 5000 µL, 120 mm	0030 077.580	022491261
1 - 10 mL L, 243 mm	0030 077.598	022491288
ep Dualfilter T.I.P.S.® LoRetention Racks	Order no. (international)	Order no. (North America)
0.1 - 10 µL S, 34 mm	0030 077.610	022493000
0.5 - 20 µL L, 46 mm	0030 077.628	022493002
2 - 100 µL, 53 mm	0030 077.644	022493006
20 - 300 µL, 55 mm	0030 077.636	022493004
50 - 1000 µL, 76 mm	0030 077.652	022493008
ep Dualfilter T.I.P.S.® SealMax Racks	Order no. (international)	Order no. (North America)
0.1 - 10 µL S, 34 mm	0030 077.806	0030077806
0.5 - 20 µL L, 46 mm	0030 077.814	0030077814
2 - 100 µL, 53 mm	0030 077.822	0030077822
2 - 200 µL, 55 mm	0030 077.830	0030077830
20 - 300 µL, 55 mm	0030 077.849	0030077849
50 - 1000 µL, 76 mm	0030 077.857	0030077857

There is no standardized test method available yet to determine the filter efficiency of filters in pipette tips. Hence, the method established is defined according to EN 1822 (classification of air filters) as follows:

Aerosol permeability is measured using a defined polydisperse NaCl aerosol at a flow velocity of 25 mm/s. For distinguished particle diameters, penetrating aerosol particles are counted using a Scanning Mobility Particle Sizer; the ratio of this value to the reference blank value is the permeability. EPA/HEPA\* classification according to EN 1822 rates the filter efficiency at the particle size of highest penetration.

All tests were performed by an independent accredited laboratory.

Date: Hamburg, November 2014

Brigitte Klose  
Global Product Manager  
Consumables

Dr. Birgit Schreiber  
Vice President  
Quality Management & Regulatory Affairs

\*Efficiency Particulate Airfilter/High Efficiency Particulate Airfilter

Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)  
Eppendorf AG · 22331 Hamburg · Germany  
E-mail: [eppendorf@eppendorf.com](mailto:eppendorf@eppendorf.com)

ISO 9001  
Certified

ISO  
13485  
Certified

ISO  
14001  
Certified