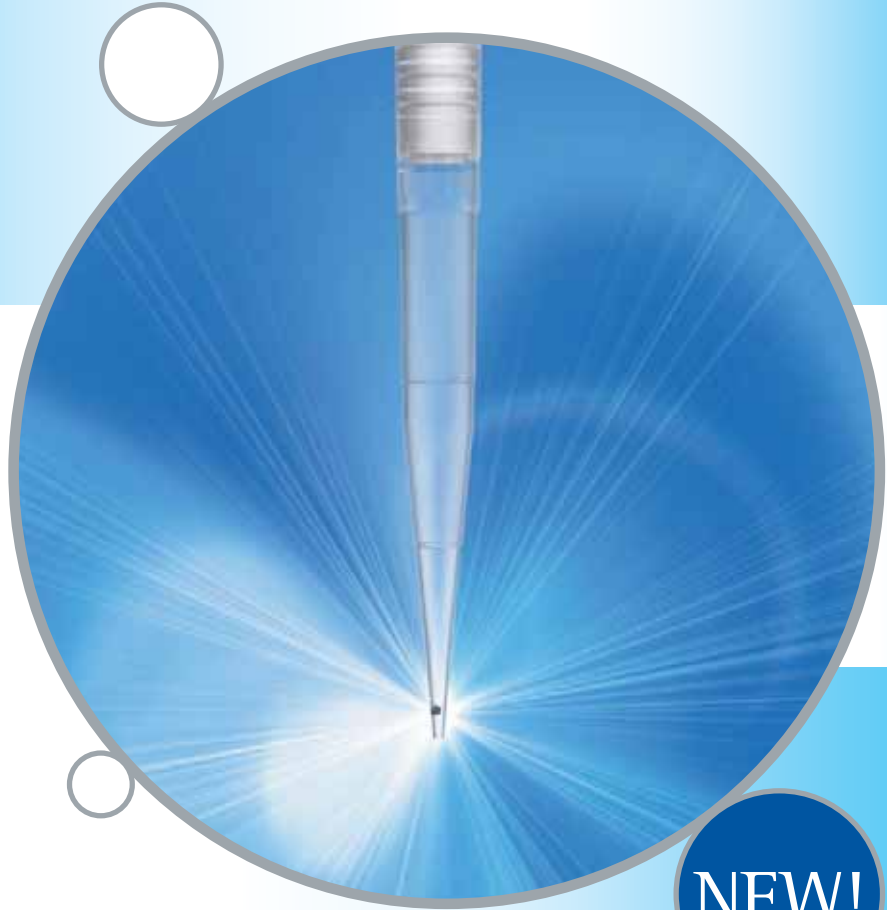


Also
available with
Dualfilter!



NEW!

The Pearl Effect!

Maximum sample recovery with epT.I.P.S. LoRetention

eppendorf

Maximum results

epT.I.P.S. LoRetention

Increased sensitivity with maximum reproducibility

Are you dependent on your precious samples? Then don't leave any valuable residues in your tips when pipetting solutions that contain detergents! Based on a unique and innovative method of material modification, the new Eppendorf epT.I.P.S. LoRetention allow you to transfer almost 100% of the liquid picked up – for maximum recovery with unbeaten precision.

The pipetting of liquids containing detergents is ever present in modern laboratory processes. The lower surface tension involved has a strong influence on the flow and dosing properties, thus making it more difficult to perform reproducible work with these samples.

The “Pearl Effect”

The ultrahydrophobic, extremely homogenous surface of the epT.I.P.S. LoRetention is achieved through an innovative treatment at the molecular level – the Pearl Effect Technology. The tips are uncoated and free from additives, thus nothing can bleed into the sample. Liquids roll off completely, so that almost no sample remains in the tip. In comparison, the adhesive layer of liquid in standard tips retains considerably more sample material.

For users of the new epT.I.P.S. LoRetention, this unique material property guarantees maximum sample recovery, improved reproducibility and higher sensitivity.

Product features

- Ultrahomogeneous surface for maximum reproducibility
- Ultrahydrophobic surface for minimum loss of sample
- Air bubbles and foaming are significantly reduced during pipetting
- Autoclavable, high chemical resistance
- 5 years shelf live
- Available as Dualfilter T.I.P.S., as well as in PCR clean and Eppendorf Quality

- Simple differentiation of racks and reloads through a new, clear lid with a white seal. When open, the writing “LoRetention” can be seen from the inside. The reusable seal makes it also possible to label existing epT.I.P.S. boxes.



- The “Pearl Effect” – a comparison of the amount of residual liquid when pipetting solutions that contain detergents: ① Maximum recovery with epT.I.P.S. LoRetention ② Significant loss of sample using standard tips.



The facts speak for themselves

epT.I.P.S. LoRetention

Reduce costs, increase reproducibility

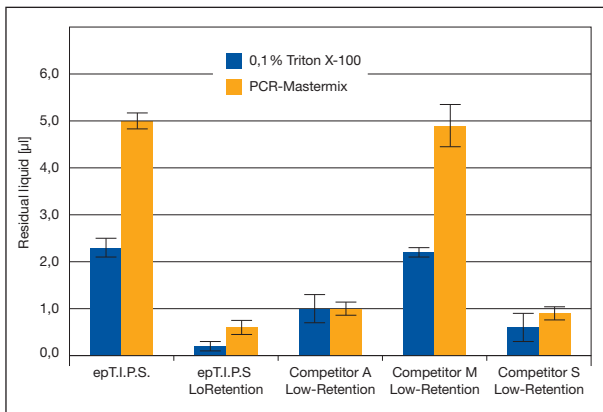
Particularly with sensitive PCR and real-time PCR applications, low-retention surfaces can increase reproducibility and notably reduce the loss of expensive reagents – depending on the reagent solution by up to 5 %!

Various applications

epT.I.P.S. LoRetention are ideally suited for all applications with samples that contain detergents:

- PCR and real-time PCR preparation of enzyme solutions and master mixes
- Isolation, purification and denaturation of proteins
- Restriction digestions and ligations
- Pipetting DNA ladders during gel electrophoresis

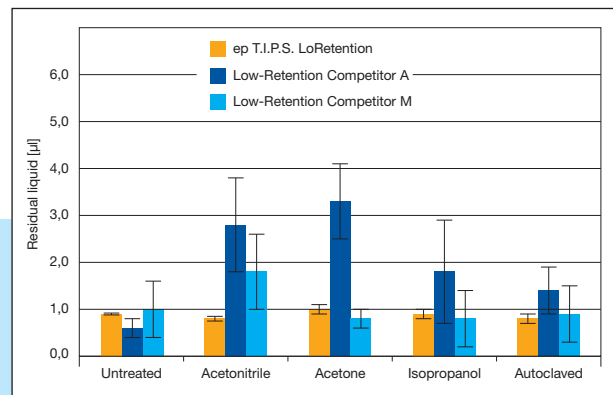
epT.I.P.S. LoRetention perform considerably better in terms of precision and sample recovery than low-retention tips from other manufacturers.



- Comparison of residual liquid from epT.I.P.S. LoRetention with standard epT.I.P.S. and low-retention tips of other manufacturers. 200 µl tips were used to pipette a commercial PCR master mix and the detergent 0.1 % Triton X-100. Once the liquid had been dispensed, the residual liquid in the tips was determined. The measurements were repeated several times and the standard deviation determined. epT.I.P.S. LoRetention resulted in the lowest residual liquid, as well as the smallest standard deviation.

Quality and purity Eppendorf style

It goes without saying that the new epT.I.P.S. LoRetention have all the valued properties of the proven Eppendorf epT.I.P.S. They are produced in high-precision manufacturing processes, can be autoclaved, are extremely resistant to chemicals, and are available in the PCR clean (free of human DNA, DNase, RNase, and PCR inhibitors) purity grade, as well as in Eppendorf Quality. For maximum contamination protection, epT.I.P.S. LoRetention are also available as Dualfilter T.I.P.S.



- Comparison of resistance of the low-retention property when subjected to solvents or autoclaving. 200 µl epT.I.P.S. LoRetention and low-retention tips of other manufacturers were autoclaved or treated with the solvent specified. An enzymatic buffer containing detergents was then pipetted and the residual moisture was determined. epT.I.P.S. LoRetention resulted in reproducible low levels of residual liquid with minimum standard deviation. Low-retention tips from other manufacturers are less resistant to chemicals or autoclaving; this resulted in an increase in residual liquid and standard deviation.

epT.I.P.S. LoRetention

Order information

Description	Quantity	Purity	International Order No.	North America Order No.
epT.I.P.S. LoRetention Dualfilter, Racks				
0.1–10 µl S	10 × 96 tips	PCR clean/sterile/pyrogen-free	0030 077.610	022493000
0.5–20 µl L	10 × 96 tips	PCR clean/sterile/pyrogen-free	0030 077.628	022493002
2–100 µl	10 × 96 tips	PCR clean/sterile/pyrogen-free	0030 077.644	022493006
20–300 µl	10 × 96 tips	PCR clean/sterile/pyrogen-free	0030 077.636	022493004
50–1,000 µl	10 × 96 tips	PCR clean/sterile/pyrogen-free	0030 077.652	022493008
epT.I.P.S. LoRetention, Reloads				
0.1–10 µl S	10 × 96 tips	PCR clean	0030 072.006	022493010
0.5–20 µl L	10 × 96 tips	PCR clean	0030 072.014	022493012
2–200 µl	10 × 96 tips	PCR clean	0030 072.022	022493014
50–1,000 µl	10 × 96 tips	PCR clean	0030 072.030	022493016
epT.I.P.S. LoRetention, Reloads				
0.1–10 µl S	10 × 96 tips	Eppendorf Quality	0030 072.049	022493018
0.5–20 µl L	10 × 96 tips	Eppendorf Quality	0030 072.057	022493020
2–200 µl	10 × 96 tips	Eppendorf Quality	0030 072.065	022493022
50–1,000 µl	10 × 96 tips	Eppendorf Quality	0030 072.073	022493024
epT.I.P.S. LoRetention, Racks*				
0.1–10 µl S	10 × 96 tips	PCR clean		022493026
0.5–20 µl L	10 × 96 tips	PCR clean		022493028
2–200 µl	10 × 96 tips	PCR clean		022493030
50–1,000 µl	10 × 96 tips	PCR clean		022493032

*available in North America only

For more information on Eppendorf epT.I.P.S. LoRetention, visit: www.eppendorf.com/loretention

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