

GEN3[™] Multi-Barrier Pipette Tips The Ultimate Self-Sealing Tip

Multi-Barrier Technology

Introducing the ultimate filter barrier technology. The new Axygen[®] brand GEN3 multi-barrier filter pipette tips offer the ultimate in protection against cross contamination using tri-filter technology. These tips will prevent liquid or aerosol from passing through and will lock on contact assuring your valuable samples and research have not been compromised.

Unlike other self-sealing barrier tips that can possibly inhibit PCR, GEN3 tips effectively separate liquid from the self-sealing barrier using an additional protective layer of conventional polyethylene filter material.

In addition to the self-sealing properties, our GEN3 multi-barrier pipette tips feature our exclusive Maxymum Recovery[®] technology which reduces the amount of reagent or sample adhering to the pipette tip. This allows complete sample retrieval. Maxymum Recovery also reduces the risk of DNA denaturation.

Offered in racks and pre-sterilized via e-beam, tips are DNase-/RNase-free and nonpyrogenic.

Features and Benefits

- Multi-barrier self-sealing filter prevents aerosol or liquid cross contamination
- Proprietary filter design prevents possible PCR inhibition
- Maxymum Recovery technology for ultra-low retention and high yield
- Hinged rack for convenience and ease of use
- Pre-sterilized; no need to autoclave
- Certified DNase-/RNase-free and nonpyrogenic
- Certified human gDNA and PCR inhibition free



Performance Comparison of Filter Pipette Tips

These images show a visual comparison of the Axygen[®] GEN3[™] filter pipette tip compared to a conventional filter tip following the over-aspiration of a colored liquid.



GEN3 multi-barrier pipette tips seal on contact with liquids and prevent liquids or aerosols from passing through, eliminating cross contamination.





Liquid passes through conventional filter pipette tips causing cross contamination.

Maxymum Recovery[®] is included as a standard feature on all GEN3 Multi-Barrier Tips

Utilizing a unique manufacturing process, the Axygen Maxymum Recovery range offers an innovative series of pipette tips, filter tips, PCR products and microcentrifuge tubes that feature ultra-smooth surfaces.

- Ultra-smooth surfaces
- Exclusive molding technology
- Reduced sample loss and saves costly reagents
- Maximizes accuracy and precision







Conventional tip after dispensing 100 μL sample



GEN3 multi-barrier tips are certified human gDNA and PCR inhibition free.





Am

AXYORN

GEN3 200µL JLTI-BARRIER TIPS







Surface Comparison of Polypropylene Materials

These images show a visual comparison of the Axygen[®] Maxymum Recovery[®] pipette tip internal surface compared to the surface of both standard polypropylene pipette tips and siliconized pipette tips. The photographs below were taken of the internal surface of sections cut from three styles of pipette tips, via SEM/EDS. Magnification levels ranged from 50x to 5,000x.

Maxymum Recovery Pipette Tips







Figure 1a: (50x)

Figure 1b: (500x)

Figure 1c: (5000x)

Figures 1a, 1b, and 1c are images of the Axygen Maxymum Recovery surface. Even at the highest magnification level, the ultra-smooth surface is visibly free of occlusions and cavities which can cause sample retention and sample denaturation in standard polypropylene.

Conventional Pipette Tips



Figure 2a: (50x)

Figure 2b: (500x)

Figure 2c: (5000x)

Figures 2a, 2b, and 2c are images of the internal surface of a standard polypropylene pipette tip. Occlusions and cavities can be seen on the wall surface. At highest magnification, surface strands, which cause samples to 'stick', are clearly visible.

Siliconized Pipette Tips

Figure 3a: (50x)



Figure 3b: (500x)

Figure 3c: (5000x)

Figures 3a, 3b, and 3c are images of a siliconized pipette tip. Here again, notice the lack of smoothness of the walls created by an inconsistent and uneven flow of silicone upon the surface. Sample retention occurs even with siliconized pipette tips.

GEN3 Ordering Information

Fisher

Scientific	Axygen				
Cat. No.	Cat. No.	Description	Qty/Rack	Qty/Unit	Qty/Case
14223500	GEN3-10-L-R-S	GEN3 10 μL multi-barrier pipette tip	96	10	5
14223501	GEN3-20-L-R-S	GEN3 20 μL multi-barrier pipette tip	96	10	5
14223502	GEN3-200-L-R-S	GEN3 200 μL multi-barrier pipette tip	96	10	5
14223503	GEN3-1000-L-R-S	GEN3 1000 μL multi-barrier pipette tip	100	10	5



		10 μL GEN3-10-L-R-S	20 μL GEN3-20-L-R-S	200 μL GEN3-200-L-R-S	1000 μL GEN3-1000-L-R-S
Axygen® Axypet® Single Channel	0.1-2 μL				
Axygen Axypet Single Channel	0.5-10 µL				
Axygen Axypet Single Channel	2-20 µL				
Axygen Axypet Single Channel	5-50 µL				
Axygen Axypet Single Channel	10-100 µL				
Axygen Axypet Single Channel	20-200 µL				
Axygen Axypet Single Channel	100-1000 μL				
Axygen Axypet Multi Channel	1-10 µL				
Axygen Axypet Multi Channel	5–50 µL				
Axygen Axypet Multi Channel	20-200 μL				
Biohit® Proline® Single Channel	0.2–10 μL				
Biohit Proline Single Channel	5–100 μL				
Biohit Proline Single Channel	10-500 μL				
Biohit Proline Single Channel	50-1000 μL				
Biohit Proline Multi Channel	0.2-10 µL	and the			
Biohit Proline Multi Channel	5–100 µL				
Biohit eLINE® Single Channel	0.2-10 µL				
Biohit eLINE Single Channel	5-120 µL				
Biohit eLINE Single Channel	50-1000 μL				
Biohit eLINE Multi Channel	0.2-10 µL				
Biohit eLINE Multi Channel	5–120 µL				
Biohit mLINE™ Single Channel	0.5-10 µL				
Biohit mLINE Single Channel	2-20 µL				
Biohit mLINE Single Channel	10-100 μL				
Biohit mLINE Single Channel	20-200 μL				
Biohit mLINE Single Channel	100-1000 µL				
Biohit mLINE Multi Channel	0.5-10 µL				
Biohit mLINE Multi Channel	5-100 µL				
Eppendorf® Electronic	0.5-10 μL				
Eppendorf Electronic	2-200 µL				
Eppendorf Electronic®	50-1000 µL				
Eppendorf Reference®	0.1-10 µL				
Eppendorf Reference	2-20 μL				
Eppendorf Reference	20-200 μL				
Eppendorf Reference	100-1000 μL				
Eppendorf Research [®] Single Channel	0.5–10 μL				
Eppendorf Research Single Channel	2-20 µL				
Eppendorf Research Single Channel	20-200 μL				
Eppendorf Research Single Channel	100-1000 μL				
Eppendorf Research Multi Channel	0.5–10 μL				
Finnpipette® Single Channel	0.2-10 µL				
Finnpipette Single Channel	0.5-10 μL				
Finnpipette Single Channel	40-200 μL				
Finnpipette Single Channel	100-1000 μL				
Finnpipette Single Channel	200-1000 µL				
Gilson® Pipetman® Single Channel	P2, 0.1-2 μL				
Gilson Pipetman Single Channel	Ρ10, 0.2-10 μL				
Gilson Pipetman Single Channel	P20, 2-20 μL				
Gilson Pipetman Single Channel	P100, 10-100 μL				
Gilson Pipetman Single Channel	P200, 20-200 μL				
Gilson Pipetman Single Channel	P1000, 100-1000 μL				100 mill
Gilson Multi	P200-M8, 20-200 μL				
Rainin® EDP3® Single Channel	E-MIC-10, 0.5-10 μL				
Rainin EDP3 Single Channel	E2-1000, 100-1000 µL				
Rainin Multi Channel	EP-M8-10, 0.5-10 μL				
Rainin Latch-mode [™]	R2, 0.1-2 μL				
Rainin Latch-mode	R10, 0.2-10 μL				
Rainin Latch-mode	R20, 2-20 μL				
Rainin Latch-mode	R200, 20-200 μL				
Rainin Latch-mode	R1000, 100-1000 μL				



In the United States: For customer service, call 1-800-766-7000. To fax an order, use 1-800-926-1166. To order online: www.fishersci.com In Canada: For customer service, call 1-800-234-7437. To fax an order, use 1-800-463-2996. To order online: www.fishersci.ca

AXYGEN is a registered trademark of Axygen, Inc., Union City, CA. Corning is a registered trademark of Corning Incorporated, Corning, NY. For a listing of trademarks, visit us at www.corning.com/lifesciences/ trademarks. All other trademarks are the property of their respective owners.