

# Axygen® GEN3 Multi-barrier Pipet Tips

## The Ultimate Self-sealing Tip

### Multi-barrier Technology

Axygen GEN3 multi-barrier filter pipet 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, ensuring your valuable samples and research are not compromised.

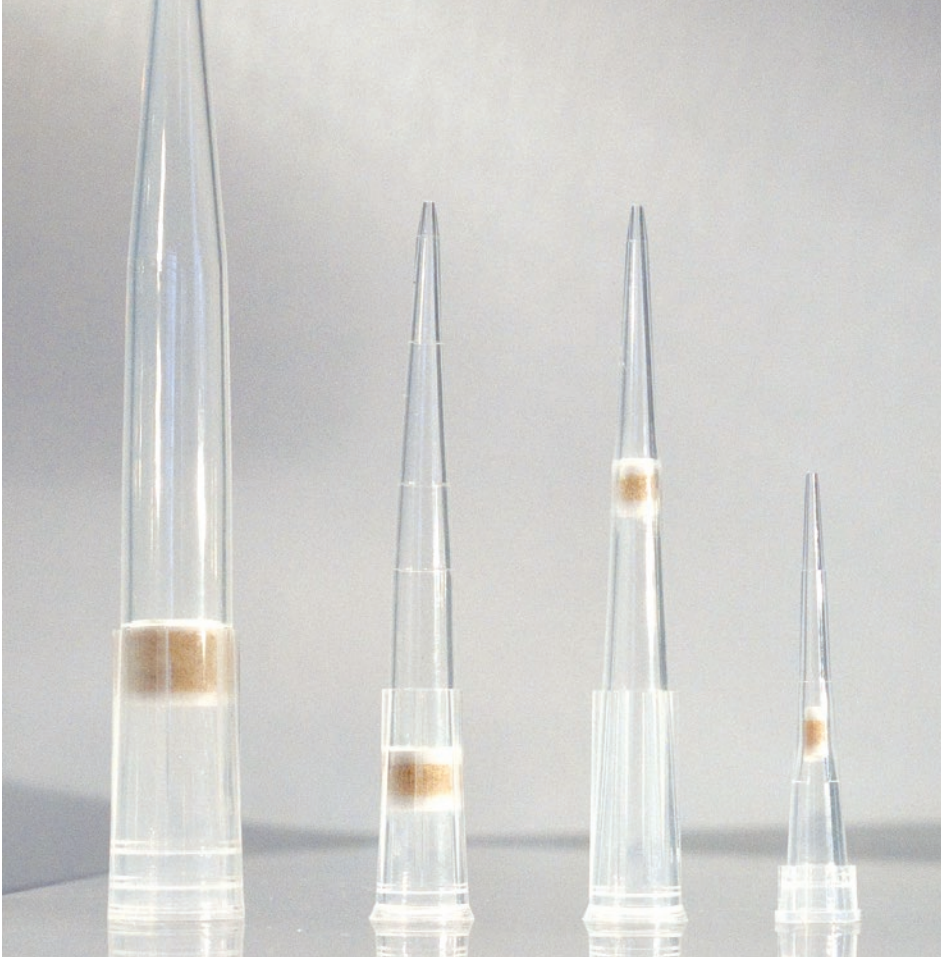
Unlike other self-sealing barrier tips that can possibly inhibit PCR, GEN3 tips effectively separate liquid from the self-sealing barrier using an additional protective layer of conventional polyethylene filter material.

In addition to the self-sealing properties, our GEN3 multi-barrier pipet tips feature our exclusive Axxygen Maxymum Recovery® technology that reduces the amount of reagent or sample adhering to the pipet 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 RNase-/DNase-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
- ▶ RNase-/DNase-free
- ▶ Nonpyrogenic
- ▶ Human gDNA and PCR inhibition-free



**AXYGEN**®

*A Corning Brand*

## Performance Comparison of Filter Pipet Tips

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



GEN3 Multi-barrier Tip



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

Conventional Filter Pipet Tip



Liquid passes through the conventional filter pipet tips causing cross-contamination.

## Axygen Maxymum Recovery® is included as a standard feature on all Axygen GEN3 Multi-barrier Tips

Utilizing a unique manufacturing process, the Axygen Maxymum Recovery range offers an innovative series of pipet tips, filter tips, PCR products and microcentrifuge tubes.

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



Axygen Maxymum Recovery tip after dispensing 100 µL sample



Conventional tip after dispensing 100 µL sample

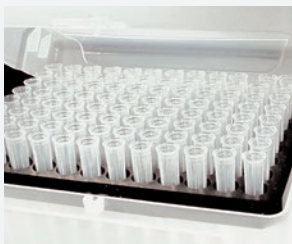
GEN3 multi-barrier tips are human gDNA and PCR inhibition-free.

# GEN3

THE ULTIMATE SELF-SEALING TIP



Axygen GEN3 10  $\mu$ L multi-barrier tips, Maxymum Recovery surface



Axygen GEN3 20  $\mu$ L multi-barrier tips, Maxymum Recovery surface



Axygen GEN3 200  $\mu$ L multi-barrier tips, Maxymum Recovery surface

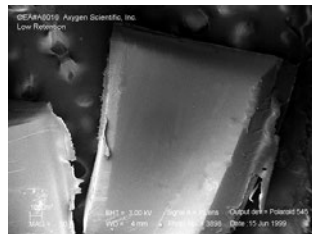


Axygen GEN3 1,000  $\mu$ L multi-barrier tips, Maxymum Recovery surface

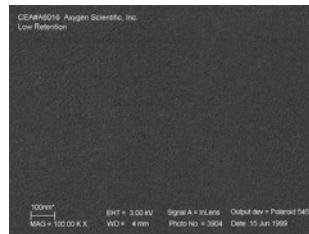
## Surface Comparison of Polypropylene Materials

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

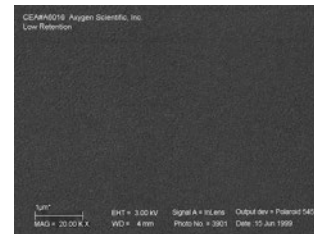
### Maxymum Recovery Pipet Tips



50X



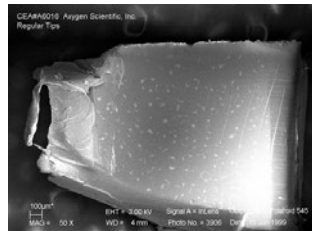
500X



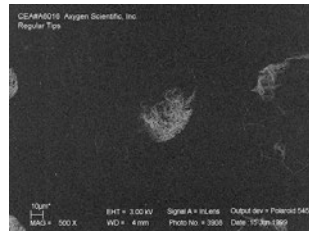
5,000X

**Figure 1. Images of the Axygen Maxymum Recovery surface.** Even at the highest magnification level, the ultra-smooth surface is visibly free of occlusions and cavities that can cause sample retention and sample denaturation in standard polypropylene.

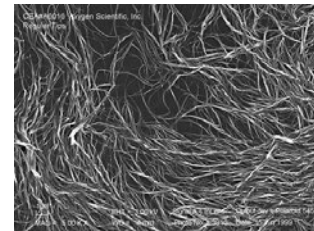
### Conventional Pipet Tips



50X



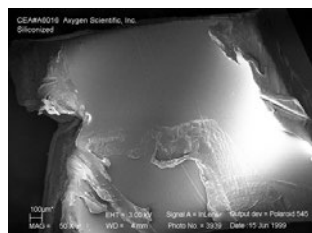
500X



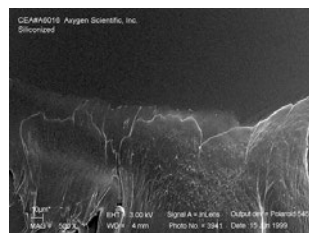
5,000X

**Figure 2. Images of the internal surface of a standard polypropylene pipet tip.** Occlusions and cavities can be seen on the wall surface. At highest magnification, surface strands, which cause samples to “stick,” are clearly visible.

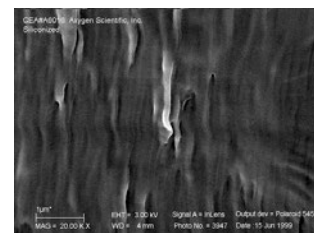
### Siliconized Pipet Tips



50X



500X



5,000X

**Figure 3. Images of a siliconized pipet tip.** The lack of smoothness of the walls is created by an inconsistent and uneven flow of silicone upon the surface. With siliconized pipet tips, sample retention occurs evenly.

## Ordering Information

### Axygen GEN3 Multi-barrier Pipet Tips

Cat. No.	Description	Qty/Rack	Qty/Unit	Qty/Cs
GEN3-10-L-R-S	GEN3 10 $\mu$ L multi-barrier pipet tip	96	10	5
GEN3-20-L-R-S	GEN3 20 $\mu$ L multi-barrier pipet tip	96	10	5
GEN3-200-L-R-S	GEN3 200 $\mu$ L multi-barrier pipet tip	96	10	5
GEN3-1000-L-R-S	GEN3 1,000 $\mu$ L multi-barrier pipet tip	100	10	5

# GEN3

THE ULTIMATE SELF-SEALING TIP

## Compatibility Guide

Pipettor	10 µL GEN3-10-L-R-S	20 µL GEN3-20-L-R-S	200 µL GEN3-200-L-R-S	1,000 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 - 1,000 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 - 1,000 µL)				■
Biohit proline Multi channel (0.2 - 10 µL)	■			
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 - 1,000 µL)				■
Biohit eLINE Multi channel (0.2 - 10 µL)	■			
Biohit eLINE Multi channel (5 - 120 µL)			■	
Biohit eLINE single channel (0.5 - 10 µL)	■			
Biohit eLINE single channel (2 - 20 µL)		■		
Biohit eLINE single channel (10 - 100 µL)			■	
Biohit eLINE single channel (20 - 200 µL)			■	
Biohit eLINE single channel (100 - 1,000 µL)				■
Biohit Multi channel (0.5 - 10 µL)	■			
Biohit Multi channel (5 - 100 µL)			■	
Eppendorf Electronic (0.5 - 10 µL)	■			
Eppendorf Electronic (2 - 200 µL)			■	
Eppendorf Electronic (50 - 1,000 µL)				■
Eppendorf Reference (0.1 - 10 µL)	■			
Eppendorf Reference (2 - 20 µL)		■		
Eppendorf Reference (20 - 200 µL)			■	
Eppendorf Reference (100 - 1,000 µL)				■
Eppendorf Research single channel (0.1 - 10 µL)	■			
Eppendorf Research single channel (2 - 20 µL)		■		
Eppendorf Research single channel (20 - 200 µL)			■	
Eppendorf Research single channel (100 - 1,000 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 - 1,000 µL)				■
Finnpipette single channel (200 - 1,000 µL)				■
Gilson Pipetman™ single channel (P2, 0.1 - 2 µL)	■			
Gilson Pipetman single channel (P10, 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 - 1,000 µL)				■
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 - 1,000 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 - 1,000 µL)				■

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