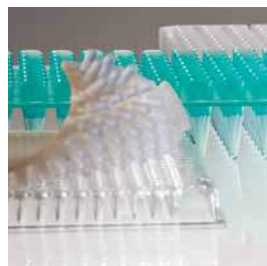
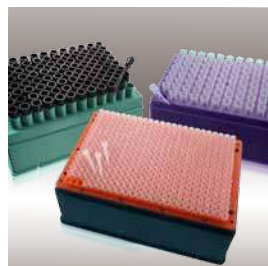


Axygen

Genomics Liquid Handling Selection Guide Issue 1



AXYGEN[®]

A Corning Brand

Introduction

Corning® is pleased to present Axygen® brand laboratory and genomics liquid handling products. In this guide, you will find a comprehensive portfolio of high-quality plastic consumables, reagent kits and devices designed to improve your process efficiency.

Corning's 150 years of expertise in materials science and process engineering combined with Axygen's in-house capabilities to design, make and maintain molds in one location ensure the highest quality and consistency. We use automated systems to consistently rack, filter and assemble products and eliminate human contamination. Our technical experts understand application workflows and can provide advice and training for your specific technical and process questions.

Each and every lot of our product, regardless of packaging format, both sterile and nonsterile, is tested and certified by Axygen's modern microbiology laboratory. Completely equipped with the latest instruments and technology from the most trusted manufacturers, this facility, was the first of its kind in our industry. This experience, combined with an uncompromising commitment to quality, ensures that Axygen applies the most stringent testing standards to certify products to be DNase-/RNase-free and nonpyrogenic.

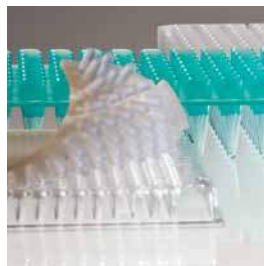
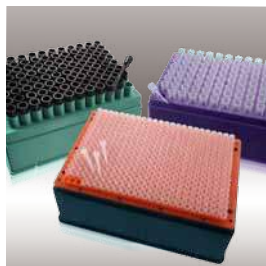
In addition to being ISO 9001:2008 and ISO 13485:2003 compliant our manufacturing utilizes "clean techniques" in sealed positive pressure, clean areas. Resins used by Axygen are USP Class IV or IV compliant, RoHS compliant and do not exceed the designated levels of restricted substances as defined in the European Directive 2002/95/EC. Axygen also certifies that none of Axygen products contain Substances of Very High Concern (SVHC) as listed by the European Chemicals Agency (ECHA) under the provisions of Regulation (EC) No. 1907/2006 of the European Parliament and of the council concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) per the ECHA 19/12/2011 and previous updates. In addition, heavy metals are not used in the manufacture of or the formulation of this product and products meet the CONEG requirements of less than 100 ppm by weight for lead, mercury, cadmium and hexavalent chromium.

We welcome both formal and informal site visits and audits. We make available to our customers lot-specific Certificates of Compliance. Certificates of Compliance and SDS information can be obtained by visiting 'Request a Certificate' on our website at www.axygen.com.

For up-to-date information on Axygen products and services, go to www.axygen.com where you can access:

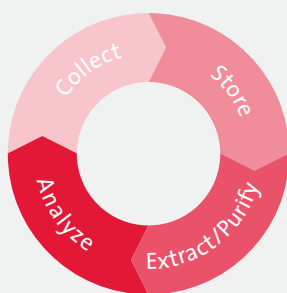
- ▶ New Product Information
- ▶ Technical Information including:
 - Application Notes
 - Instruction Manuals
 - Protocols
- ▶ Educational Opportunities
- ▶ Product Catalog Information
- ▶ Product Literature
- ▶ Distributor Information

For additional product information, call 1.800.4.AXYGEN or email axgsales@corning.com. Customers outside the United States, please call 1.510.494.8900.



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Beginning-to-end Solutions for Genomics

From collection to analysis, our technical experts understand your challenges and your need for simplified, efficient genomics workflows from low to high throughput processes. A combination of global manufacturing expertise, extensive use of in-house automation, an unsurpassed commitment to product innovation and a thorough understanding of your processes enables Corning to offer a beginning-to-end portfolio of high-quality, reliable consumables and reagents for genomics workflows.



Product Ordering Information

Minimum Orders

There is a minimum order for all orders placed in the United States and Canada of \$500 (USD). The minimum order for all other countries is \$3000 (USD). Minimum orders for all individual items is "one" case.

Ordering and Technical Information

All orders can be placed with your Axygen® account manager or local distributor. For a list of distributors, visit the website at www.axygen.com. Additional inquiries can be made with our facility by phone +1.510.494.8900, by fax +1.510.494.0700 or via email: axgsales@corning.com

Shipments

All orders placed with Axygen are shipped ex-works Union City, California USA.

Returns

Product returns are accepted only by prior authorization. Unauthorized returns will be sent back to sender. Please contact Axygen Customer Service for forwarding instructions. We do not accept product returns from shipments which were made more than 90 days prior to the request date (120 days for international shipments). A 20% restocking fee may apply to return requests.

Freight Claims

Shipments always leave our warehouse in good condition. If a carton is received which is in poor condition, it should be refused or be noted on the Bill of Landing at the time of delivery. Also, if a carton is missing, it should be noted on the Bill of Landing. It is your responsibility to file any freight claims with the carrier, usually within 10 days of delivery and to collect from the carrier any money owed.

Disclaimer

Our products are intended for use within the research laboratory setting. Axygen makes no warranty of merchantability of fitness for particular use of any product it manufactures or sells. It is up to the individual user to validate all products prior to running any protocol or experiment. Under no circumstances shall Axygen be held liable to the customer or any other party for any direct or indirect damages, including, but not limited to personal injury, property damage, special, consequential, indirect or punitive damages or lost profits (or other economic loss) resulting from the use or inability to use this product, even if such losses or damages are reasonably foreseeable.

In the event that this product fails to conform to Axygen's specifications, Axygen will, at its option, provide a free replacement or grant an appropriate credit. The warranty and remedies provided in this section shall apply to the exclusion of any other warranties (express or implied, including the warranties of merchantability and fitness for a particular purpose) or remedies that might otherwise be available under applicable law.

Axygen is a registered trademark of Axygen, Inc. All other trademarks are the property of their respective owners.

Technology Overview



Maxymum Recovery tip after dispensing 100 µL sample.



Conventional tip after dispensing 100 µL sample.



Maxymum Recovery®

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

A properly maintained and calibrated pipettor is capable of delivering fluids within 1% of the requested volume. However, variations introduced as a result of poor performance from inferior tips can increase the error rate. Count on Axygen's Maxymum Recovery pipet tips to optimize accuracy for your most critical applications.

- ▶ Ultra-smooth surfaces
- ▶ Exclusive molding technology
- ▶ Reduced sample loss to save on costly reagents
- ▶ Maximizes accuracy and precision

What does this mean to you?

Surface Comparison of Polypropylene Materials

These images show a visual comparison of a Maxymum Recovery pipet tip internal surface compared to the surface of both standard polypropylene pipet tips and siliconized pipet tips. The photographs below 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.

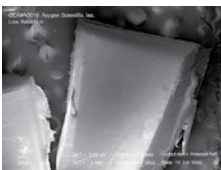


Figure 1a: (50x)



Figure 1b: (500x)

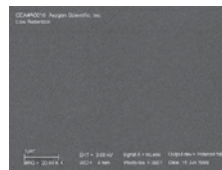


Figure 1c: (5000x)

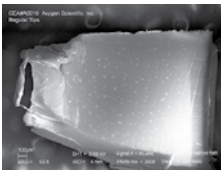


Figure 2a: (50x)

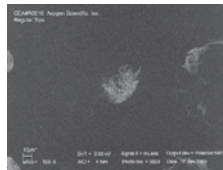


Figure 2b: (500x)

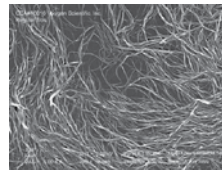


Figure 2c: (5000x)

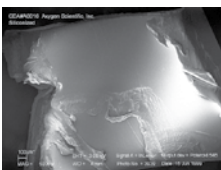


Figure 3a: (50x)

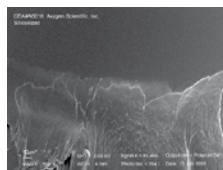


Figure 3b: (500x)

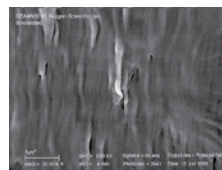


Figure 3c: (5000x)

Diamond-Polished Molding Technology

Photographic image of a single molding element at 5x shows the mirror-like finish typical of all Axygen molds. Such smooth surfaces facilitate the release of the tip from the mold, eliminating the need for releasing fluids which can cause contamination.

- ▶ No mold-releasing agents used
- ▶ Contamination-free
- ▶ Reduced sample loss
- ▶ Optimized performance
- ▶ Available on automation/handheld tips, PCR and microcentrifuge tubes

Maxymum Recovery Pipet Tips

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. See Figures 1a, 1b, and 1c.

Conventional Pipet Tips

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

Siliconized Pipet Tips

The siliconized pipet tip shows a lack of smoothness of the walls created by an inconsistent and uneven flow of silicone upon the surface. Sample retention occurs even with siliconized pipet tips. See Figures 3a, 3b, and 3c.



Automation Tips

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7 Reasons to Choose Axygen® Automation Tips

1 AUTOMATED ASSEMBLY

Ensures product is free from contamination.

2 ELECTRONIC MONITORING OF MANUFACTURING

Advanced technology supported by experienced personnel results in high-quality products.

3 IN-HOUSE MOLD MAKING

Engineering team has tremendous expertise in designing and creating molds that produce consistent, high quality products.

4 IN-HOUSE TESTING

In-house automation lab allows product to be validated prior to release.

5 UNIQUE TECHNOLOGY

Available in Maxym Recovery® to further improve accuracy and precision while reducing sample wastage.

6 CUSTOMER SITE TESTING OF NEW PRODUCTS

All products are validated at customer locations to ensure proper function.

7 BROAD PRODUCT OFFERING

Axygen routinely offers tips not offered by the robotic workstation manufacturer.



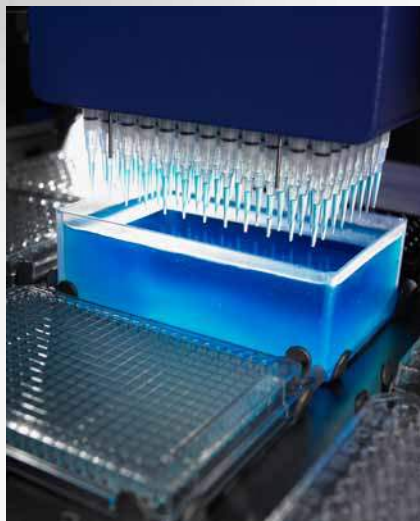
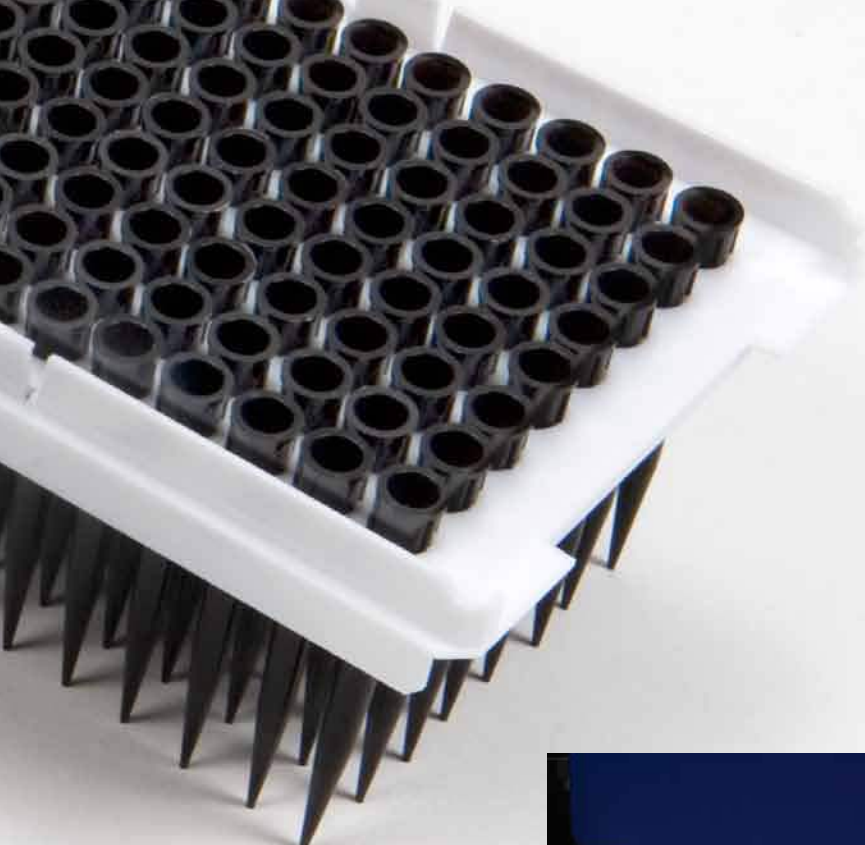
Axygen Automation Tips

Axygen brand automation tips are engineered to the exact specifications of the original equipment manufacturers' tips, ensuring complete compatibility and a consistent fit. One of the widest product offerings combined with our engineering expertise stringent QA/QC enables you to get optimum performance no matter which automated liquid handler you are working with.

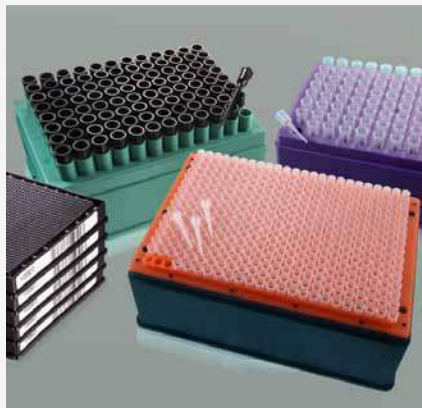
Features

- Engineered to the exact specifications of the workstation vendor's tips to ensure complete compatibility and consistent fit.
- Wide product offering combined with in-house engineering expertise guarantees optimum workstation performance.
- Complete control of manufacturing process from in-house molding to the most stringent QA and QC testing processes in the industry ensures defects are eliminated.
- Maxym Recovery available in most tip styles for the ultimate in precision and accuracy
- Unsurpassed straightness – hit every well, every time
- Optimized fine point for accurate dispensing
- Filter barrier prevents aerosol and liquid contamination
- Certified DNase-/RNase-free and nonpyrogenic for complete protection against contamination.

AUTOMATION TIPS



Accurate sample delivery is a function of both robotic and tip performance. With the advent of high throughput screening and UHTS, reliable and accurate sample preparation has become more critical than ever. Why risk having your work slowed down and time wasted by defective materials and mediocre performance, when you can place your trust in disposables from a company that offers more? Our expertise in plastic molding has enabled us to create an entire line of Maxymum Recovery® automation tips. Maxymum Recovery virtually eliminates sample retention during aspiration and dispensing for performance that is second to none in the industry.



Compatible with

Aurora Biomed

- ▶ Versa®

Agilent® / Velocity11

- ▶ VPrep®

- ▶ Bravo

Beckman® Coulter®

- ▶ Biomek® FX, Biomek NX & Multimek™

- ▶ Biomek 3000

- ▶ Biomek FX & Biomek NX & Multimek with SPAN-8 liquid level sensing head

- ▶ Biomek 1000 & Biomek 2000

BIOTEK®

- ▶ Precision™

- ▶ Precision XS

Corbett

- ▶ CAS and X-tractor Gene

Dynamic Devices

- ▶ Oasis LM

Hamamatsu

- ▶ 6000 & 7000 Series

Hamilton®

- ▶ Microlab® STAR, STARlet & STARplus

- ▶ Nimbus®

Molecular Device Liberty

- ▶ FLIPR Liberty 384

PerkinElmer®

- ▶ Janus®, Evolution P³, MiniTrak & PlateTrak®

- ▶ MultiProbe

Progroup Wellpro

- ▶ 3000-96 & 3000-384

Qiagen®

- ▶ QIAgility™ and Qiagen OnCor

- ▶ Biorobot® 3000, 8000, 9600 & 9604

Tecan®

- ▶ Genesis Freedom®, Freedom Evo® & Miniprep with LiHa

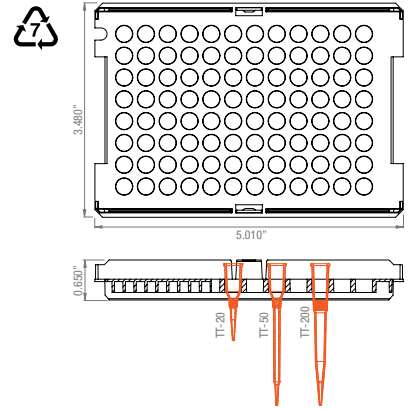
- ▶ Te-Mo & Aquarius

Zymark®/Caliper











- ▶ RapidPlate® & SciClone®

- ▶ Zephyr®

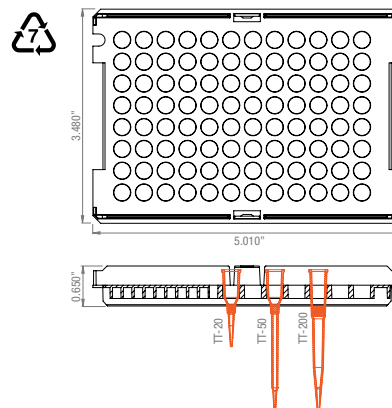
Format: 96 tip
 Tip Volume Range Selection: 10 µL - 1000 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 • With or without aerosol-resistant filters
 • Nonsterile or sterile



















Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Non-Filtered	20 µL	8-Channel		Nonsterile	TT-20-C-HTR
				Sterile	TT-20-C-HTR-S
				Nonsterile	TT-20-C-HTR-36*
				Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	
 Filtered	10 µL	8-Channel		Sterile	TTF-20-C-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	50 µL	8-Channel		Nonsterile	TT-50-C-HTR
				Sterile	TT-50-C-HTR-S
				Nonsterile	TT-50-C-HTR-36*
				Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	
 Filtered	25 µL	8-Channel		Sterile	TTF-50-C-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	200 µL	8-Channel		Nonsterile	TT-200-C-HTR
				Sterile	TT-200-C-HTR-S
				Nonsterile	TT-200-C-HTR-36*
				Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	
 Filtered	175 µL	8-Channel		Sterile	TTF-200-C-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	1000 µL	8-Channel		Nonsterile	TT-1000-C-HTR
				Sterile	TT-1000-C-HTR-S
				Nonsterile	TT-1000-C-HTR-24*
				Quantity: 96 tips/rack, 16 racks/case; * 96 tips/rack, 2 racks/pack, 24 packs/case	
 Filtered	1000 µL	8-Channel		Sterile	TTF-1000-C-HTR-S
				Quantity: 96 tips/rack, 16 racks/case	

Format: 96 tip
 Tip Volume Range Selection: 10 µL - 1000 µL
 Material: Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 • With or without aerosol-resistant filters
 • Nonsterile or sterile

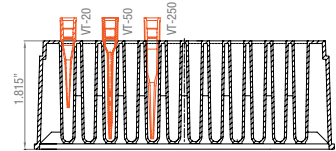
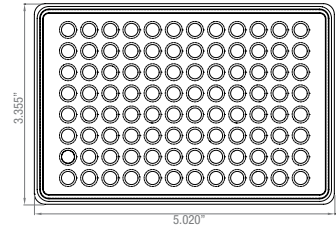


Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Conductive, Non-Filtered	20 µL	8-Channel		Nonsterile	TT-20-CBK-HTR
				Sterile	TT-20-CBK-HTR-S
				Nonsterile	TT-20-CBK-HTR-36*
Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case					
 Conductive, Filtered	10 µL	8-Channel		Sterile	TTF-20-CBK-HTR-S
Quantity: 96 tips/rack, 24 racks/case					
 Conductive, Non-Filtered	50 µL	8-Channel		Nonsterile	TT-50-CBK-HTR
				Sterile	TT-50-CBK-HTR-S
				Nonsterile	TT-50-CBK-HTR-36*
Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case					
 Conductive, Filtered	25 µL	8-Channel		Sterile	TTF-50-CBK-HTR-S
Quantity: 96 tips/rack, 24 racks/case					
 Conductive, Non-Filtered	200 µL	8-Channel		Nonsterile	TT-200-CBK-HTR
				Sterile	TT-200-CBK-HTR-S
				Nonsterile	TT-200-CBK-HTR-36*
Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case					
 Conductive, Filtered	175 µL	8-Channel		Sterile	TTF-200-CBK-HTR-S
Quantity: 96 tips/rack, 24 racks/case					
 Conductive, Non-Filtered	1000 µL	8-Channel		Nonsterile	TT-1000-CBK-HTR
				Sterile	TT-1000-CBK-HTR-S
				Nonsterile	TT-1000-CBK-HTR-24*
Quantity: 96 tips/rack, 16 racks/case; * 96 tips/rack, 2 racks/pack, 24 packs/case					
 Conductive, Filtered	1000 µL	8-Channel		Sterile Nonsterile	TTF-1000-CBK-HTR-S TTF-1000-CBK-HTR-24*
Quantity: 96 tips/rack, 16 racks/case; * 96 tips/rack, 2 racks/pack, 24 packs/case					

Format: 96 tip
 Tip Volume Range Selection: 20 µL - 250 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®

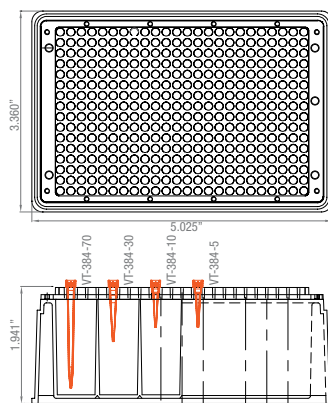


Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene












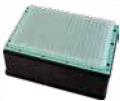
Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered	60 µL	96LT & 8LT		Nonsterile Sterile Nonsterile Sterile	VT-20-R VT-20-R-S VT-20-R-LAB VT-20-R-LAB-S	VT-20-L-R-LAB-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	20 µL	96LT & 8LT		Sterile Sterile	VTF-20-R-S VTF-20-R-LAB-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	50 µL	96LT & 8LT		Nonsterile Sterile Nonsterile Sterile	VT-50-R VT-50-R-S VT-50-R-LAB VT-50-R-LAB-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	30 µL	96LT & 8LT		Sterile	VTF-30-R-S VTF-30-R-LAB-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	250 µL	96LT & 8LT		Nonsterile Sterile Nonsterile Sterile	VT-250-R VT-250-R-S VT-250-R-LAB VT-250-R-LAB-S	VT-250-L-R VT-250-L-R-LAB
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	165 µL	96LT & 8LT		Sterile Sterile	VTF-165-R-S VTF-165-R-LAB-S	VTF-165-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	250 µL	96LT & 8LT		Sterile	VT-255-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	165 µL	96LT & 8LT		Sterile	VTF-165-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	190 µL	96LT & 8LT		Sterile Sterile	VTF-190-R-S	VTF-190-L-R-S VTF-190-L-R-LAB-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		

Format: 384 tip
 Tip Volume Range Selection: 5 µL - 70 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®



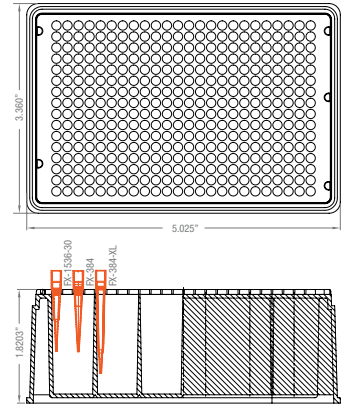
Tip Rack Format: ANSI/SLAS
 Material: Conductive Polypropylene for static dissipation

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered 	5 uL	384ST, 96ST, 16ST		Nonsterile Sterile Nonsterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	VT-384-5UL-R VT-384-5UL-R-S VT-384-5UL-R-SDL	VT-384-5-C-L-R VT-384-5-C-L-R-S
Non-Filtered 	10 uL	384ST, 96ST, 16ST		Nonsterile Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	VT-384-10UL-R VT-384-10UL-R-S	VT-384-10-C-L-R VT-384-10-C-L-R-S
Non-Filtered 	30 uL	384ST, 96ST, 16ST		Nonsterile Sterile Nonsterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	VT-384-31UL-R VT-384-31UL-R-S VT-384-31UL-R-SDL	VT-384-31-C-L-R VT-384-31-C-L-R-S
Filtered 	15 uL	384ST, 96ST, 16ST		Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	VTF-384-15UL-R-S	VTF-384-15-C-L-R-S
Non-Filtered 	70 uL	384ST, 96ST, 16ST		Nonsterile Sterile Nonsterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	VT-384-70UL-R VT-384-70UL-R-S VT-384-70UL-R-SDL	VT-384-70-C-L-R VT-384-70-C-L-R-S
Filtered 	50 uL	384ST, 96ST, 16ST		Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	VTF-384-50UL-R-S	VTF-384-50-C-L-R-S




















Format: 384 tip
 Tip Volume Range Selection: 25 µL - 50 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

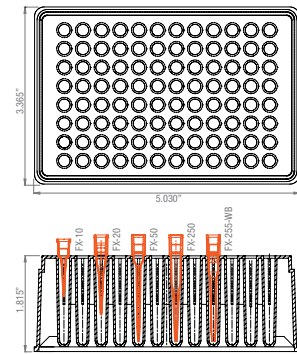
- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®













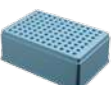

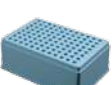




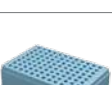


Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
	27 µL	AP-384		Nonsterile Sterile	FX-1536-30FP-R FX-1536-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	30 µL	AP-384		Nonsterile Sterile	FX-384-R FX-384-R-S	FX-384-L-R FX-384-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	25 µL	AP-384		Sterile	FXF-384-R-S	FXF-384-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	30 µL	AP-384		Nonsterile Sterile	FX-384-30FP-R FX-384-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	25 µL	AP-384		Sterile	FXF-384-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	45 µL	AP-384		Nonsterile Sterile	FX-384-45FP FX-384-45FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	30 µL	AP-384		Sterile	FXF-384-45FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	50 µL	AP-384		Nonsterile Sterile	FX-384-XL-R FX-384-XL-R-S	FX-384-XL-L-R FX-384-XL-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
	30 µL	384-Channel-Low Volume		Sterile	FXF-384-XL-R-S	FXF-384-XL-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		

Format: 96 tip
 Tip Volume Range Selection: 5 µL - 250 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 • With or without aerosol-resistant filters
 • Nonsterile or sterile
 • Standard or Maxymum Recovery®
 Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene



Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered 	20 µL	AP-96, SPAN-8 MP20		Nonsterile Sterile	FX-10-R FX-10-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	5 µL	AP-96, SPAN-8 MP20		Sterile	FXF-10-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	100 µL	AP-96, SPAN-8 MP20		Nonsterile Sterile	FX-20-R FX-20-R-S	FX-20-L-R FX-20-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	20 µL	AP-96, SPAN-8 MP20		Sterile Nonsterile	FXF-20-R-S	FXF-20-L-R-S FXF-20-L-R-PB
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	50 µL	AP-96, SPAN-8 MP20, MP200		Nonsterile Sterile	FX-50-R FX-50-R-S	FX-50-L-R FX-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	30 µL	AP-96, SPAN-8 MP20, MP200		Sterile	FXF-50-R-S	FXF-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	250 µL	AP-96, SPAN-8 MP200		Nonsterile Sterile	FX-250-R FX-250-R-S	FX-250-L-R FX-250-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	165 µL 200 µL	AP-96, SPAN-8 MP200		Sterile Nonsterile Sterile	FXF-180-R-S FXF-180-R-PB FXF-200-R-S	FXF-180-L-R-S FXF-180-L-R-PB
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	250 µL	AP-96, SPAN-8 MP200		Nonsterile Sterile	FX-255-WB-R FX-255-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	165 µL	AP-96, SPAN-8 MP200		Sterile	FXF-165-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	200 µL	AP-96, SPAN-8 MP200		Sterile	FXF-205-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		

Format: 96 tip
 Tip Volume Range Selection: 20 µL - 250 µL
 Material: Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

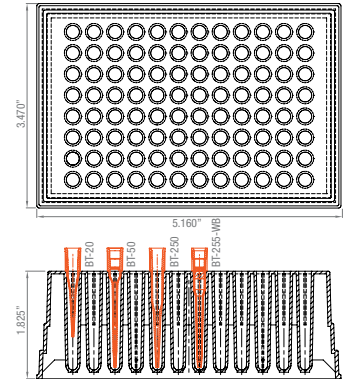
- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile

Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene


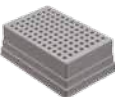



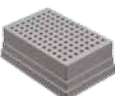







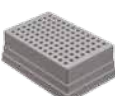

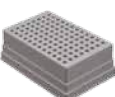




Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Conductive, Non-Filtered	100 µL	SPAN-8		Nonsterile Sterile	SPN-20-CBK-R SPN-20-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Filtered	20 µL	SPAN-8		Sterile	SPNF-20-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Non-Filtered	50 µL	SPAN-8		Nonsterile Sterile	SPN-50-CBK-R SPN-50-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Filtered	30 µL	SPAN-8		Sterile	SPNF-30-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Non-Filtered	250 µL	SPAN-8		Nonsterile Sterile	SPN-250-CBK-R SPN-250-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Filtered	165 µL	SPAN-8		Sterile	SPNF-180-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	

Format: 96 tip (1 mL size are 72 tips/rack)
 Tip Volume Range Selection: 20 µL - 1000 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®



Tip Rack Format: Non-ANSI
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered 	100 µL	P20, MP20, P200, MP200		Nonsterile Sterile	BT-20-R BT-20-R-S	BT-20-L-R BT-20-L-R-S
Filtered 	35 µL	P20, MP20, P200, MP200		Sterile	BTF-20-R-S	BTF-20-L-R-S
Non-Filtered 	50 µL	P20, MP20, P200, MP200		Nonsterile Sterile	BT-50-R BT-50-R-S	BT-50-L-R BT-50-L-R-S
Filtered 	30 µL	P20, MP20, P200, MP200		Sterile	BTF-50-R-S	BTF-50-L-R-S
Non-Filtered 	250 µL	P200, MP200		Nonsterile Sterile	BT-250-R BT-250-R-S	BT-250-L-R BT-250-L-R-S
Filtered 	165 µL	P200, MP200		Sterile	BTF-180-R-S	BTF-180-L-R-S
Non-Filtered 	250 µL	P200, MP200		Nonsterile Sterile	BT-255-WB-R BT-255-WB-R-S	
Filtered 	165 µL	P200, MP200		Sterile	BTF-165-WB-R-S	
Non-Filtered 	1000 µL	P1000		Nonsterile Sterile	BT-1000-R BT-1000-R-S	
Filtered 	1000 µL	P1000		Sterile	BTF-1000-R-S	

Format: 96 tip
 Tip Volume Range Selection: 50 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

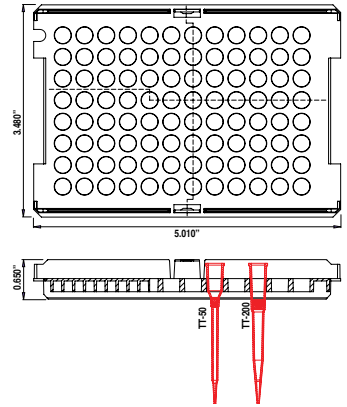
- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile














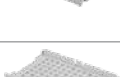




Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered 	50 µL	8 or 12		Nonsterile Sterile Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-50-R EV-50-R-S EV-50-R-LAB EV-50-R-LAB-S
Filtered 	50 µL	8 or 12		Sterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-50-R-S EVF-50-R-LAB-S
Non-Filtered 	100 µL	8 or 12		Nonsterile Sterile Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-100-R EV-100-R-S EV-100-R-LAB EV-100-R-LAB-S
Filtered 	80 µL	8 or 12		Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-100-R-S EVF-100-R-LAB-S
Non-Filtered 	200 µL	8 or 12		Nonsterile Sterile Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-200-R EV-200-R-S EV-200-R-LAB EV-200-R-LAB-S
Filtered 	180 µL	8 or 12		Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-180-R-S EVF-180-R-LAB-S
Non-Filtered 	200 µL	8 or 12		Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-205-WB-R EV-205-WB-R-S
Filtered 	180 µL	8 or 12		Sterile Nonsterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-205-WB-R-S EVF-205-WB-R-PB

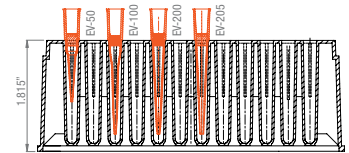
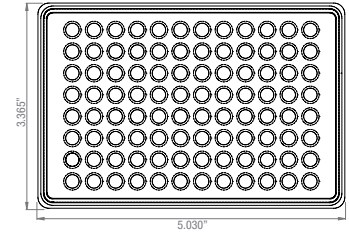
Format: 96 tip
 Tip Volume Range Selection: 25 µL - 200 µL
 Material: Clear Polypropylene or Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 ▶ With or without aerosol-resistant filters
 ▶ Nonsterile or sterile

Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate
 CTF Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene
















Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
	50 µL	CAS-1200 Single Channel 20-150 µL/sec.		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	TT-50-C-HTR TT-50-C-HTR-S TT-50-C-HTR-36*
	25 µL	CAS-1200 Single Channel 20-150 µL/sec.		Sterile Quantity: 96 tips/rack, 24 racks/case	TTF-50-C-HTR-S
	200 µL	CAS-1200 Single Channel 20-150 µL/sec.		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	TT-200-C-HTR TT-200-C-HTR-S TT-200-C-HTR-36*
	175 µL	CAS-1200 Single Channel 20-150 µL/sec.		Sterile Quantity: 96 tips/rack, 24 racks/case	TTF-200-C-HTR-S
	50 µL	CAS-1200 Single Channel 20-150 µL/sec.		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	TT-50-CBK-HTR TT-50-CBK-HTR-S TT-50-CBK-HTR-36*
	25 µL	CAS-1200 Single Channel 20-150 µL/sec.		Sterile Quantity: 96 tips/rack, 24 racks/case	TTF-50-CBK-HTR-S
	200 µL	CAS-1200 Single Channel 20-150 µL/sec.		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	TT-200-CBK-HTR TT-200-CBK-HTR-S TT-200-CBK-HTR-36*
	175 µL	CAS-1200 Single Channel 20-150 µL/sec.		Sterile Quantity: 96 tips/rack, 24 racks/case	TTF-200-CBK-HTR-S
	200 µL	X-tractor Gene 8-Channel, CAS-4200, CAS-4800, QiaExtractor		Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	CTF-199-R-S

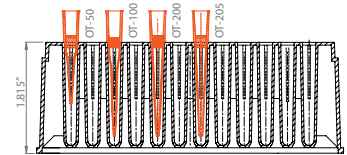
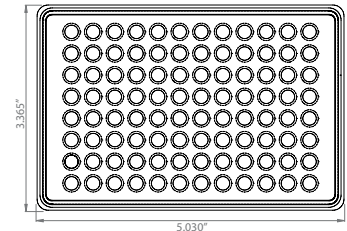
Format: 96 tip
 Tip Volume Range Selection: 50 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 • With or without aerosol-resistant filters
 • Nonsterile or sterile

















Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Non-Filtered	50 µL	8/96-Channel-Standard Vol, 96-Ch.-Low Vol		Nonsterile Sterile Nonsterile Sterile	EV-50-R EV-50-R-S EV-50-R-LAB EV-50-R-LAB-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	50 µL	8/96-Channel-Standard Vol, 96-Ch.-Low Vol		Sterile Sterile	EVF-50-R-S EVF-50-R-LAB-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Non-Filtered	100 µL	8/96-Channel-Standard Vol		Nonsterile Sterile Nonsterile Sterile	EV-100-R EV-100-R-S EV-100-R-LAB EV-100-R-LAB-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	80 µL	8/96-Channel-Standard Vol		Sterile Sterile	EVF-100-R-S EVF-100-R-LAB-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Non-Filtered	200 µL	8/96-Channel-Standard Vol		Nonsterile Sterile Nonsterile Sterile	EV-200-R EV-200-R-S EV-200-R-LAB EV-200-R-LAB-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	180 µL	8/96-Channel-Standard Vol		Sterile Sterile	EVF-180-R-S EVF-180-R-LAB-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Non-Filtered	200 µL	8/96-Channel-Standard Vol		Nonsterile Sterile	EV-205-WB-R EV-205-WB-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	180 µL	8/96-Channel-Standard Vol		Sterile Nonsterile	EVF-205-WB-R-S EVF-205-WB-R-PB
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					

Format: 96 tip
 Tip Volume Range Selection: 50 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 ▶ With or without aerosol-resistant filters
 ▶ Nonsterile or sterile

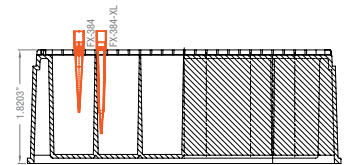
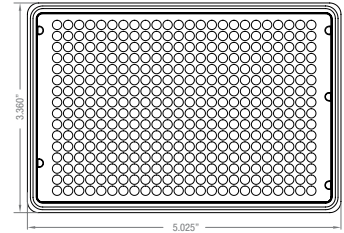


Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered 	50 µL	8/96-Channel-Standard Vol		Nonsterile Sterile	OT-50-R OT-50-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
Filtered 	50 µL	8/96-Channel-Standard Vol		Sterile Nonsterile	OTF-50-R-S OTF-50-R-PB
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
Non-Filtered 	100 µL	8/96-Channel-Standard Vol		Nonsterile Sterile	OT-100-R OT-100-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
Filtered 	100 µL	8/96-Channel-Standard Vol		Sterile Nonsterile	OTF-100-R-S OTF-100-R-PB
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
Non-Filtered 	200 µL	8/96-Channel-Standard Vol		Nonsterile Sterile	OT-200-R OT-200-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
Filtered 	180 µL	8/96-Channel-Standard Vol		Sterile Nonsterile	OTF-180-R-S OTF-180-R-PB
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
Non-Filtered 	200 µL	8/96-Channel-Standard Vol		Nonsterile	OT-205-WB-R
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					

Format: 384 tip
 Tip Volume Range Selection: 25 µL - 50 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:


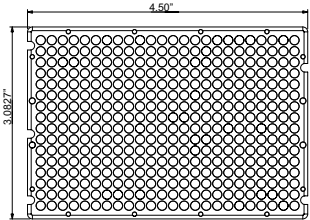
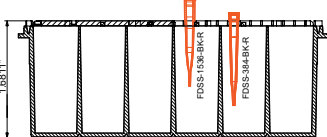
- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or MAXYMUM RECOVERY®




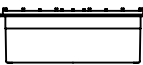

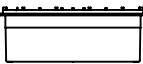
Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXYMUM RECOVERY Cat. No.
Non-Filtered 	30 µL	384-Channel-Low Volume		Nonsterile Sterile	FX-384-R FX-384-R-S	FX-384-L-R FX-384-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	25 µL	384-Channel-Low Volume		Sterile	FXF-384-R-S	FXF-384-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	30 µL	384-Channel-Low Volume		Nonsterile Sterile	FX-384-30FP-R FX-384-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	25 µL	384-Channel-Low Volume		Sterile	FXF-384-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	45 µL	384-Channel-Low Volume		Nonsterile Sterile	FX-384-45FP-R FX-384-45FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	30 µL	384-Channel-Low Volume		Sterile	FXF-384-45FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	50 µL	384-Channel-Low Volume		Nonsterile Sterile	FX-384-XL-R FX-384-XL-R-S	FX-384-XL-L-R FX-384-XL-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	30 µL	384-Channel-Low Volume		Sterile	FXF-384-XL-R-S	FXF-384-XL-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		

Format: 384 tip
 Tip Volume Range Selection: 50 µL
 Material: Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic


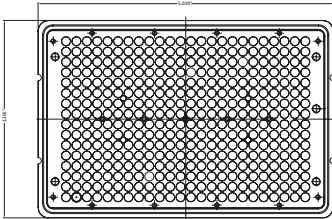
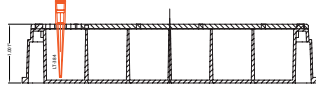




Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 5 Polypropylene


Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered 	50 µL	FDSS 7000		Nonsterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FDSS-1536-BK-R
Non-Filtered 	50 µL	FDSS 6000		Nonsterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FDSS-384-BK-R

Molecular Device Liberty | FLIPR Liberty 384

Format: 384 tip
 Tip Volume Range Selection: 30 µL
 Material: Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 • Clear or Black

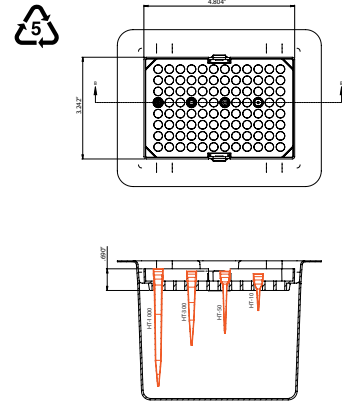




Tip Rack Format: ANSI
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered 	30 µL	384		Nonsterile Sterile Nonsterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	LT-384-R LT-384-R-S LT-384-BK-R

Format: 96 tip
 Tip Volume Range Selection: 10 µL - 1000 µL
 Material: Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile




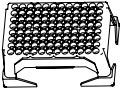

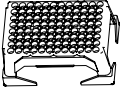

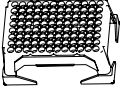

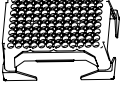

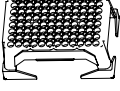

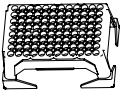
Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Non-Filtered	10 µL	8-Channel, 96-Probe Head		Nonsterile Sterile	HT-10-CBK-HTR HT-10-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Filtered	10 µL	8-Channel, 96-Probe Head		Sterile	HTF-10-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	50 µL	8-Channel, 96-Probe Head		Nonsterile Sterile	HT-50-CBK-HTR HT-50-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Filtered	50 µL	8-Channel, 96-Probe Head		Sterile	HTF-50-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	300 µL	8-Channel, 96-Probe Head		Nonsterile Sterile	HT-300-CBK-HTR HT-300-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Filtered	300 µL	8-Channel, 96-Probe Head		Sterile	HTF-300-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	1000 µL	8-Channel, 96-Probe Head		Nonsterile Sterile	HT-1000-CBK-HTR HT-1000-CBK-HTR-S
				Quantity: 96 tips/rack, 16 racks/case	
 Filtered	1000 µL	8-Channel, 96-Probe Head		Sterile	HTF-1000-CBK-HTR-S
				Quantity: 96 tips/rack, 16 racks/case	

Format: 96 tip
 Tip Volume Range Selection: 10 µL - 300 µL
 Material: Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile



Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Non-Filtered	10 µL	8-Channel, 96-Probe Head		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; Stack Rack = 96 tips/rack, 4 racks/stack, 30 stacks/case	HT-10-CBK-R HT-10-CBK-R-S HT-10-CBK-STK*
 Filtered	10 µL	8-Channel, 96-Probe Head		Sterile Quantity: 96 tips/rack, 24 racks/case	HTF-10-CBK-R-S
 Non-Filtered	50 µL	8-Channel, 96-Probe Head		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; Stack Rack = 96 tips/rack, 4 racks/stack, 30 stacks/case	HT-50-CBK-R HT-50-CBK-R-S HT-50-CBK-STK*
 Filtered	50 µL	8-Channel, 96-Probe Head		Sterile Quantity: 96 tips/rack, 24 racks/case	HTF-50-CBK-R-S
 Non-Filtered	300 µL	8-Channel, 96-Probe Head		Nonsterile Sterile Nonsterile Quantity: 96 tips/rack, 24 racks/case; Stack Rack = 96 tips/rack, 4 racks/stack, 30 stacks/case	HT-300-CBK-R HT-300-CBK-R-S HT-300-CBK-STK*
 Filtered	300 µL	8-Channel, 96-Probe Head		Sterile Quantity: 96 tips/rack, 24 racks/case	HTF-300-CBK-R-S

Format: 384 tip
 Tip Volume Range Selection: 25 µL - 50 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

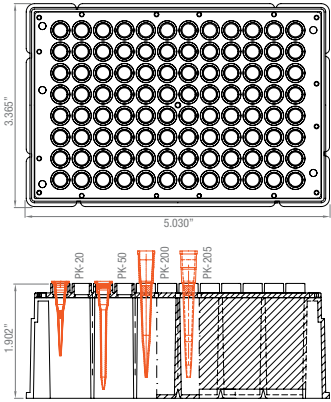
- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®

Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered 	30 µL	384-Probe Head		Nonsterile Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FX-384-R FX-384-R-S	FX-384-L-R FX-384-L-R-S
Filtered 	25 µL	384-Probe Head		Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FXF-384-R-S	FXF-384-L-R-S
Non-Filtered 	30 µL	384-Probe Head		Nonsterile Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FX-384-30FP-R FX-384-30FP-R-S	
Filtered 	25 µL	384-Probe Head		Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FXF-384-30FP-R-S	
Non-Filtered 	45 µL	384-Probe Head		Nonsterile Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FX-384-45FP-R FX-384-45FP-R-S	
Filtered 	30 µL	384-Probe Head		Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FXF-384-45FP-R-S	
Non-Filtered 	50 µL	384-Probe Head		Nonsterile Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FX-384-XL-R FX-384-XL-R-S	FX-384-XL-L-R FX-384-XL-L-R-S
Filtered 	30 µL	384-Probe Head		Sterile Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	FXF-384-XL-R-S	FXF-384-XL-L-R-S

Format: 96 tip and 384 tip
 Tip Volume Range Selection: 20 µL - 235 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®






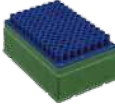







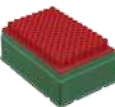




Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered	20 µL	MDT-96 P50		Nonsterile Sterile	PK-20-R PK-20-R-S	PK-20-L-R PK-20-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	20 µL	MDT-96 P50		Sterile	PKF-20-R-S	PKF-20-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	50 µL	MDT-96 P50		Nonsterile Sterile	PK-50-R PK-50-R-S	PK-50-L-R PK-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	30 µL	MDT-96 P50		Sterile	PKF-30-R-S	PKF-30-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	235 µL	MDT-96 P235		Nonsterile Sterile Nonsterile	PK-200-R PK-200-R-S PK-200-BK-R	PK-200-L-R PK-200-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	180 µL	MDT-96 P235		Sterile	PKF-180-R-S	PKF-180-L-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	235 µL	MDT-96 P235		Nonsterile Sterile	PK-205-WB-R PK-205-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered	180 µL	MDT-96 P235		Sterile	PKF-205-WB-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	30 µL	MDT-384-30 µL		Nonsterile Sterile	PK-384-R PK-384-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered	25 µL	MDT-384-30 µL		Sterile	PKF-384-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		

Format: 96 tip
 Tip Volume Range Selection: 20 µL - 1000 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 ▶ With or without aerosol-resistant filters
 ▶ Nonsterile or sterile

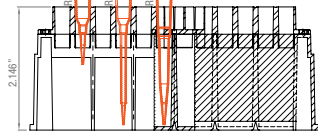
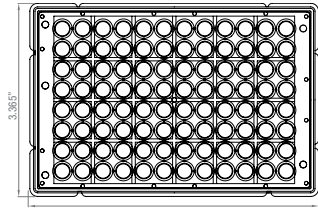
Tip Rack Format: ANSI
 Material: Number 5 Polypropylene

1 mL Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Non-Filtered	20 µL	Variospan-1, 4, 8		Nonsterile Sterile	RRP-20-C-R RRP-20-C-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	10 µL	Variospan-1, 4, 8		Sterile	RRF-10-C-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Non-Filtered	50 µL	Variospan-1, 4, 8		Nonsterile Sterile	RRP-50-C-R RRP-50-C-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	25 µL	Variospan-1, 4, 8		Sterile	RRF-25-C-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Non-Filtered	235 µL	Variospan-1, 4, 8, P235		Nonsterile Sterile	RRP-200-C-R RRP-200-C-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Filtered	175 µL	Variospan-1, 4, 8, P235		Sterile	RRF-175-C-R-S
Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case					
 Non-Filtered	1000 µL	Variospan-1, 4, 8		Nonsterile Sterile	TT-1000-C-HTR TT-1000-C-HTR-S
Quantity: 96 tips/rack, 16 racks/case					
 Filtered	1000 µL	Variospan-1, 4, 8		Sterile	TTF-1000-C-HTR-S
Quantity: 96 tips/rack, 16 racks/case					

Format: 96 tip
 Tip Volume Range Selection: 20 µL - 1000 µL
 Material: Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile



Tip Rack Format: Non-ANSI
 Material: Number 5 Polypropylene
 1 mL Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate























Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Conductive, Non-Filtered	20 µL	Variospan-1, 4, 8		Nonsterile Sterile	RRP-20-CBK-R RRP-20-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Filtered	10 µL	Variospan-1, 4, 8		Sterile	RRF-10-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Non-Filtered	50 µL	Variospan-1, 4, 8		Nonsterile Sterile	RRP-50-CBK-R RRP-50-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Filtered	25 µL	Variospan-1, 4, 8		Sterile	RRF-25-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Non-Filtered	235 µL	Variospan-1, 4, 8		Nonsterile Sterile	RRP-200-CBK-R RRP-200-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Filtered	175 µL	Variospan-1, 4, 8		Sterile	RRF-175-CBK-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Conductive, Non-Filtered	1000 µL	Variospan-1, 4, 8		Nonsterile Nonsterile Sterile	TT-1000-CBK-HTR TT-1000-CBK-HTR-24* TT-1000-CBK-HTR-S
				Quantity: 96 tips/rack, 16 racks/case; *96 tips/rack, 2 racks/pack, 24 packs/case	
Conductive, Filtered	1000 µL	Variospan-1, 4, 8		Sterile Nonsterile	TTF-1000-CBK-HTR-S TTF-1000-CBK-HTR-24*
				Quantity: 96 tips/rack, 16 racks/case; *96 tips/rack, 2 racks/pack, 24 packs/case	

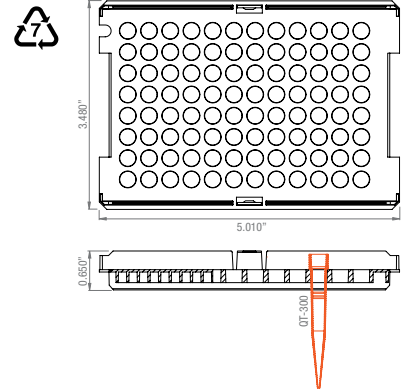
Format: 96 tip and 384 tip
 Tip Volume Range Selection: 30 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®

















Tip Rack Format: Non-ANSI (96) and ANSI/SLAS (384)
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXYNUM RECOVERY Cat. No.
Non-Filtered 	30 µL	16/24-Channel		Nonsterile Sterile	FX-384-R FX-384-R-S	FX-384-L-R FX-384-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	25 µL	16/24-Channel		Sterile	FXF-384-R-S	FXF-384-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	30 µL	16/24-Channel		Nonsterile Sterile	FX-384-30FP-R FX-384-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	25 µL	16/24-Channel		Sterile	FXF-384-30FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	45 µL	16/24-Channel		Nonsterile Sterile	FX-384-45FP-R FX-384-45FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	30 µL	16/24-Channel		Sterile	FXF-384-45FP-R-S	
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	50 µL	16/24-Channel		Nonsterile Sterile	FX-384-XL-R FX-384-XL-R-S	FX-384-XL-L-R FX-384-XL-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	30 µL	16/24-Channel		Sterile	FXF-384-XL-R-S	FXF-384-XL-L-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case		
Non-Filtered 	200 µL	8/12-Channel		Nonsterile Sterile	TWP-200-R TWP-200-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		
Filtered 	120 µL	8/12-Channel		Sterile	TWPF-120-R-S	
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case		

Format: 96 tip
 Tip Volume Range Selection: 250 µL - 1100 µL
 Material: Clear Polypropylene or Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 ▶ With or without aerosol-resistant filters
 ▶ Nonsterile or sterile



Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Non-Filtered	300 µL	BioRobot		Nonsterile Sterile	QT-300-R QT-300-R-S
				Quantity: 96 tips/rack, 24 racks/case	
 Filtered	250 µL	BioRobot		Sterile	QTF-300-R-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	300 µL	BioRobot		Nonsterile Sterile	QT-300-CBK-R QT-300-CBK-R-S
				Quantity: 96 tips/rack, 24 racks/case	
 Filtered	250 µL	BioRobot		Sterile	QTF-300-CBK-R-S
				Quantity: 96 tips/rack, 24 racks/case	
 Non-Filtered	1100 µL	BioRobot		Nonsterile Sterile	QT-1100-R QT-1100-R-S
				Quantity: 96 tips/rack, 16 racks/case	
 Filtered	1000 µL	BioRobot		Sterile	QTF-1100-R-S
				Quantity: 96 tips/rack, 16 racks/case	
 Non-Filtered	1100 µL	BioRobot		Nonsterile Sterile	QT-1100-CBK-R QT-1100-CBK-R-S
				Quantity: 96 tips/rack, 16 racks/case	
 Filtered	1000 µL	BioRobot		Sterile	QTF-1100-CBK-R-S
				Quantity: 96 tips/rack, 16 racks/case	

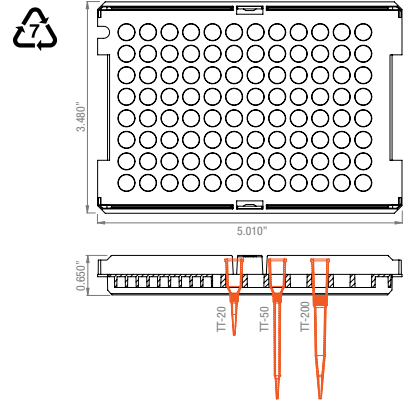
Format: 96 tip
 Tip Volume Range Selection: 10 µL - 1000 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile

















Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered	20 µL	LiHa -1, -4, -8		Nonsterile Sterile Nonsterile	TT-20-C-HTR TT-20-C-HTR-S TT-20-C-HTR-36*
				Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	
Filtered	10 µL	LiHa -1, -4, -8		Sterile	TTF-20-C-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
Non-Filtered	50 µL	LiHa -1, -4, -8		Nonsterile Sterile Nonsterile	TT-50-C-HTR TT-50-C-HTR-S TT-50-C-HTR-36*
				Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	
Filtered	25 µL	LiHa -1, -4, -8		Sterile	TTF-50-C-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
Non-Filtered	200 µL	LiHa -1, -4, -8		Nonsterile Sterile Nonsterile	TT-200-C-HTR TT-200-C-HTR-S TT-200-C-HTR-36*
				Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case	
Filtered	175 µL	LiHa -1, -4, -8		Sterile	TTF-200-C-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
Non-Filtered	1000 µL	LiHa -1, -4, -8		Nonsterile Sterile Nonsterile	TT-1000-C-HTR TT-1000-C-HTR-S TT-1000-C-HTR-24*
				Quantity: 96 tips/rack, 16 racks/case; * 96 tips/rack, 2 racks/pack, 24 packs/case	
Filtered	1000 µL	LiHa -1, -4, -8		Sterile	TTF-1000-C-HTR-S
				Quantity: 96 tips/rack, 16 racks/case	

Format: 96 tip
 Tip Volume Range Selection: 10 µL - 1000 µL
 Material: Conductive Black Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:
 • With or without aerosol-resistant filters
 • Nonsterile or sterile



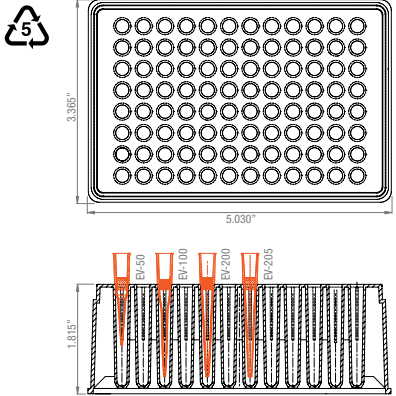
Tip Rack Format: Non-ANSI hanging tip rack
 Material: Number 7 Polycarbonate





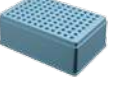
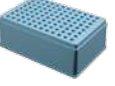


Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
 Conductive, Non-Filtered	20 µL	LiHa -1, -4, -8		Nonsterile	TT-20-CBK-HTR
				Sterile	TT-20-CBK-HTR-S
				Nonsterile	TT-20-CBK-HTR-36*
Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case					
 Conductive, Filtered	10 µL	LiHa -1, -4, -8		Sterile	TTF-20-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Conductive, Non-Filtered	50 µL	LiHa -1, -4, -8		Nonsterile	TT-50-CBK-HTR
				Sterile	TT-50-CBK-HTR-S
				Nonsterile	TT-50-CBK-HTR-36*
Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case					
 Conductive, Filtered	25 µL	LiHa -1, -4, -8		Sterile	TTF-50-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Conductive, Non-Filtered	200 µL	LiHa -1, -4, -8		Nonsterile	TT-200-CBK-HTR
				Sterile	TT-200-CBK-HTR-S
				Nonsterile	TT-200-CBK-HTR-36*
Quantity: 96 tips/rack, 24 racks/case; * 96 tips/rack, 2 racks/pack, 36 packs/case					
 Conductive, Filtered	175 µL	LiHa -1, -4, -8		Sterile	TTF-200-CBK-HTR-S
				Quantity: 96 tips/rack, 24 racks/case	
 Conductive, Non-Filtered	1000 µL	LiHa -1, -4, -8		Nonsterile	TT-1000-CBK-HTR
				Sterile	TT-1000-CBK-HTR-S
				Nonsterile	TT-1000-CBK-HTR-24*
Quantity: 96 tips/rack, 16 racks/case; * 96 tips/rack, 2 racks/pack, 24 packs/case					
 Conductive, Filtered	1000 µL	LiHa -1, -4, -8		Sterile	TTF-1000-CBK-HTR-S
				Nonsterile	TTF-1000-CBK-HTR-24*
Quantity: 96 tips/rack, 16 racks/case; * 96 tips/rack, 2 racks/pack, 24 packs/case					

Format: 96 tip
 Tip Volume Range Selection: 50 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile

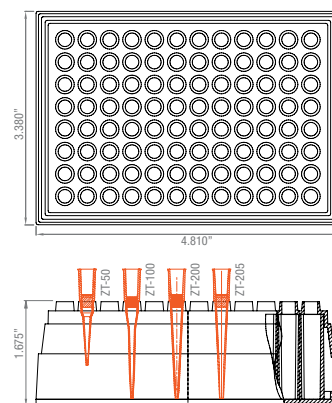
Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene



Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered	50 µL	MCA96		Nonsterile Sterile Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-50-R EV-50-R-S EV-50-R-LAB EV-50-R-LAB-S
Filtered	50 µL	MCA96		Sterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-50-R-S EVF-50-R-LAB-S
Non-Filtered	100 µL	MCA96		Nonsterile Sterile Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-100-R EV-100-R-S EV-100-R-LAB EV-100-R-LAB-S
Filtered	80 µL	MCA96		Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-100-R-S EVF-100-R-LAB-S
Non-Filtered	200 µL	MCA96		Nonsterile Sterile Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-200-R EV-200-R-S EV-200-R-LAB EV-200-R-LAB-S
Filtered	180 µL	MCA96		Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-180-R-S EVF-180-R-LAB-S
Non-Filtered	200 µL	MCA96		Nonsterile Sterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EV-205-WB-R EV-205-WB-R-S
Filtered	180 µL	MCA96		Sterile Nonsterile Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	EVF-205-WB-R-S EVF-205-WB-R-PB

Format: 96 tip
 Tip Volume Range Selection: 50 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®



Tip Rack Format: Non-ANSI
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered 	50 µL	MCA96, TEMO96		Nonsterile Sterile	ZT-50-R ZT-50-R-S	ZT-50-L-R ZT-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Filtered 	50 µL	MCA96, TEMO96		Sterile	ZTF-50-R-S	ZTF-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Non-Filtered 	100 µL	MCA96, TEMO96		Nonsterile Sterile	ZT-100-R ZT-100-R-S	ZT-100-L-R ZT-100-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Filtered 	80 µL	MCA96, TEMO96		Sterile	ZTF-100-R-S	ZTF-100-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Non-Filtered 	200 µL	MCA96, TEMO96		Nonsterile Sterile	ZT-200-R ZT-200-R-S	ZT-200-L-R ZT-200-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Filtered 	180 µL	MCA96, TEMO96		Sterile	ZTF-200-R-S	ZTF-200-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Non-Filtered 	200 µL	MCA96, TEMO96		Nonsterile Sterile	ZT-205-WB-R ZT-205-WB-R-S	ZT-205-WB-L-R ZT-205-WB-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		
Filtered 	180 µL	MCA96, TEMO96		Sterile	ZTF-205-WB-R-S	ZTF-205-WB-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packs/case		

Format: 96 tip
 Tip Volume Range Selection: 25 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile

Tip Rack Format: ANSI/SLAS
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.
Non-Filtered	50 µL	HV96		Nonsterile Sterile	EV-50-R EV-50-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Filtered	50 µL	HV96		Sterile	EVF-50-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Non-Filtered	100 µL	HV96		Nonsterile Sterile	EV-100-R EV-100-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Filtered	80 µL	HV96		Sterile	EVF-100-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Non-Filtered	200 µL	HV96		Nonsterile Sterile	EV-200-R EV-200-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Filtered	180 µL	HV96		Sterile	EVF-180-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Non-Filtered	200 µL	HV96		Nonsterile Sterile	EV-205-WB-R EV-205-WB-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Filtered	180 µL	HV96		Sterile	EVF-205-WB-R-S
				Quantity: 96 tips/rack, 10 racks/pack, 5 packs/case	
Non-Filtered	25 µL	LV96, LV384		Nonsterile Sterile	ZT-384-C-R ZT-384-C-R-S
				Quantity: 384 tips/rack, 10 racks/pack, 5 packs/case	

Format: 96 tip
 Tip Volume Range Selection: 25 µL - 200 µL
 Material: Clear Polypropylene
 Certified DNase-/RNase-free, nonpyrogenic
 Available Options:

- ▶ With or without aerosol-resistant filters
- ▶ Nonsterile or sterile
- ▶ Standard or Maxymum Recovery®

Tip Rack Format: Non-ANSI (96) and ANSI/SLAS (384)
 Material: Number 5 Polypropylene

Type	Max Volume	Compatible Head	Tip Rack	Packaging	Cat. No.	MAXIMUM RECOVERY Cat. No.
Non-Filtered	50 µL	HV96		Nonsterile Sterile	ZT-50-R ZT-50-R-S	ZT-50-L-R ZT-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Filtered	50 µL	HV96		Sterile	ZTF-50-R-S	ZTF-50-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Non-Filtered	100 µL	HV96 CAS-4200-1CH. -20-150 µl/SEC.		Nonsterile Sterile	ZT-100-R ZT-100-R-S	ZT-100-L-R ZT-100-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Filtered	80 µL	HV96 CAS-4200-1CH. -20-150 µl/SEC.		Sterile	ZTF-100-R-S	ZTF-100-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Non-Filtered	200 µL	HV96 CAS-4200-1CH. -20-150 µl/SEC.		Nonsterile Sterile	ZT-200-R ZT-200-R-S	ZT-200-L-R ZT-200-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Filtered	180 µL	HV96 CAS-4200-1CH. -20-150 µl/SEC.		Sterile	ZTF-200-R-S	ZTF-200-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Non-Filtered	200 µL	HV96 CAS-4200-1CH. -20-150 µl/SEC.		Nonsterile Sterile	ZT-205-WB-R ZT-205-WB-R-S	ZT-205-WB-L-R ZT-205-WB-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Filtered	180 µL	HV96 CAS-4200-1CH. -20-150 µl/SEC.		Sterile	ZTF-205-WB-R-S	ZTF-205-WB-L-R-S
				Quantity: 96 tips/rack, 10 racks/package, 5 packages/case		
Non-Filtered	25 µL	LV96, LV384		Nonsterile Sterile	ZT-384-C-R ZT-384-C-R-S	
				Quantity: 384 tips/rack, 10 racks/package, 5 packages/case		

Automation Tip Compatibility Chart

Axygen Automation Tips

AUTOMATION TIPS

BT-20; BTF-20
BT-50; BTF-50
BT-250; BTF-180
BT-255-WB; BTF-165-WB
BT-1000; BTF-1000
CTF-199
EV-50; EVF-50
EV-100; EVF-100
EV-200; EVF-180
EV-205-WB; EVF-205-WB
FDSS-384
FDSS-1536
FX-10; FXF-10
FX-20; FXF-20
FX-50; FXF-50
FX-250; FXF-180; FXF-200
FX-255-WB; FXF-165-WB; FXF-205-WB
FX-384; FXF-384
FX-384-XL; FXF-384-XL
FX-384-30FP; FXF-384-30FP
FX-384-45FP; FXF-384-45FP
FX-1536-30FP
HT-10; HTF-10
HT-50; HTF-50
HT-300; HTF-300
HT-1000; HTF-1000

Workstation Brand Workstation Model

Workstation Brand	Workstation Model	BT-20; BTF-20	BT-50; BTF-50	BT-250; BTF-180	BT-255-WB; BTF-165-WB	BT-1000; BTF-1000	CTF-199	EV-50; EVF-50	EV-100; EVF-100	EV-200; EVF-180	EV-205-WB; EVF-205-WB	FDSS-384	FDSS-1536	FX-10; FXF-10	FX-20; FXF-20	FX-50; FXF-50	FX-250; FXF-180; FXF-200	FX-255-WB; FXF-165-WB; FXF-205-WB	FX-384; FXF-384	FX-384-XL; FXF-384-XL	FX-384-30FP; FXF-384-30FP	FX-384-45FP; FXF-384-45FP	FX-1536-30FP	HT-10; HTF-10	HT-50; HTF-50	HT-300; HTF-300	HT-1000; HTF-1000		
Aurora Biomed	VERSA®																												
Agilent®/Velocity11	Bravo																												
	VPrep®																												
Beckman Coulter®	Biomek® 1000	•	•	•	•	•																							
	Biomek 2000	•	•	•	•	•																							
	Biomek 3000														•	•	•	•	•										
	Biomek FX-96/NX-96														•	•	•	•	•										
	Biomek FX-384/NX-384																			•	•	•	•	•					
	Biomek FX/NX (SPAN-8)														•	•	•	•	•										
	Multimek™ AP-96														•	•	•	•	•										
	Multimek AP-384																			•	•	•	•	•					
	Multimek CCS-head																												
	Multimek Type II																												
Biotek®	Precision™							•	•	•	•																		
	Precision XS							•	•	•	•																		
Corbett	CAS-1200																												
	CAS-4200, CAS-4800						•																						
Dynamic Devices	Oasis LM							•	•	•	•								•	•	•	•							
Hamamatsu	6000											•																	
	7000												•																
Hamilton®	Nimbus®																								•	•	•	•	
	Microlab® STAR																								•	•	•	•	
	Microlab STARlet																								•	•	•	•	
	Microlab STARplus																								•	•	•	•	
Molecular Device Liberty	FLIPR Liberty 384																												
PerkinElmer®	Evolution P³																												
	Janus®																												
	Minitrak																												
	Multiprobe II ET (hanging wafer)																												
	Multiprobe II HT																												
ProGroup Wellpro	Platetrak®																												
	3000-96																									•			
QiaGen®	3000-384																									•			
	BioRobot®																												
Tecan®	Aquarius							•	•	•	•																		
	Freedom EVO®							•	•	•	•																		
	Genesis Freedom®																												
	Miniprep with LiHa																												
	Te-Mo								•	•	•	•																	
Zymark®/Caliper	RapidPlate®							•	•	•	•																		
	SciClone®							•	•	•	•																		
	Zephyr®							•	•	•	•																		



PCR Consumables

Overview	42
96 Well PCR Microplates	44
384 Well PCR Microplates	47
PCR Tubes & Strip Tubes	50
PCR Plate Compatibility Chart	52

PCR CONSUMABLES

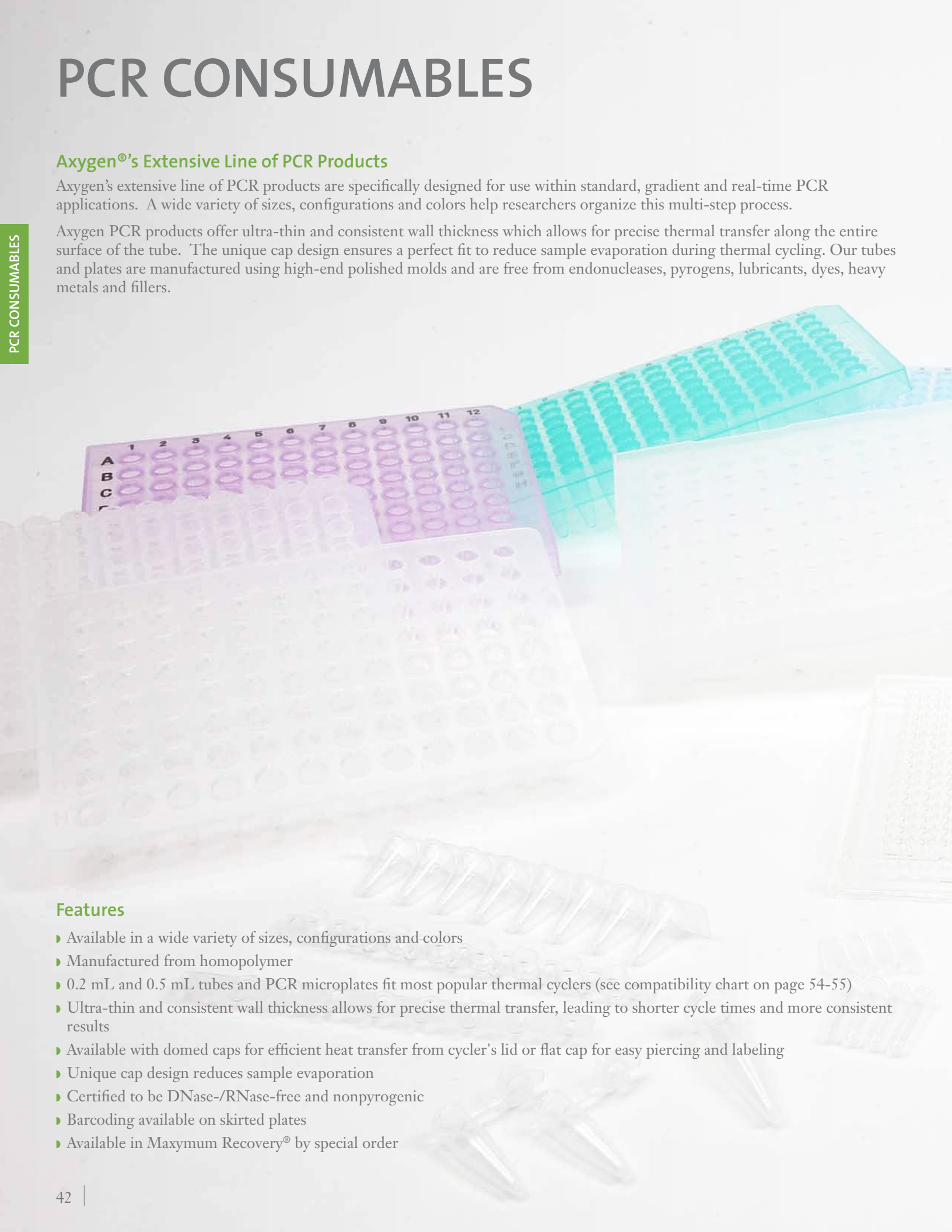
Axygen®'s Extensive Line of PCR Products

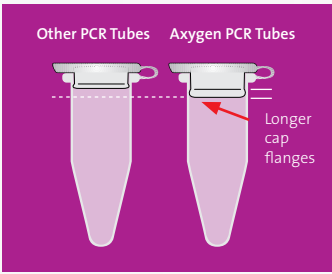
Axygen's extensive line of PCR products are specifically designed for use within standard, gradient and real-time PCR applications. A wide variety of sizes, configurations and colors help researchers organize this multi-step process.

Axygen PCR products offer ultra-thin and consistent wall thickness which allows for precise thermal transfer along the entire surface of the tube. The unique cap design ensures a perfect fit to reduce sample evaporation during thermal cycling. Our tubes and plates are manufactured using high-end polished molds and are free from endonucleases, pyrogens, lubricants, dyes, heavy metals and fillers.

Features

- Available in a wide variety of sizes, configurations and colors
- Manufactured from homopolymer
- 0.2 mL and 0.5 mL tubes and PCR microplates fit most popular thermal cyclers (see compatibility chart on page 54-55)
- Ultra-thin and consistent wall thickness allows for precise thermal transfer, leading to shorter cycle times and more consistent results
- Available with domed caps for efficient heat transfer from cycler's lid or flat cap for easy piercing and labeling
- Unique cap design reduces sample evaporation
- Certified to be DNase-/RNase-free and nonpyrogenic
- Barcoding available on skirted plates
- Available in Maxymum Recovery® by special order





Axygen® PCR Tubes

PCR tubes require a thin and consistent wall thickness to reduce the insulating effect of the tube. Axxygen PCR tubes are manufactured to the highest quality standards so your results will be consistent every time. PCR tubes with a short cap may allow for sample evaporation during thermal cycling. Axxygen PCR tubes are sealed with a full-length, even, insertion cap which ensures a tight fit and reduces sample evaporation.



Plate Sealing

Each 'well sealer' incorporates a 'scored' area for puncturing by a syringe needle. This allows samples to be dispensed and/or aspirated even while the AxyMat is in place. Each 'well-sealer,' once punctured, will reseal itself, ensuring an airtight seal to the well.

Axygen offers an extensive array of plate sealing options suitable for any preference or application.

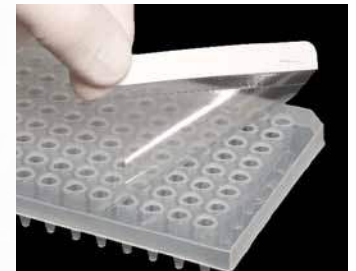
PCR AxyMats™ are research-grade silicone sealing mats designed for long or short-term sample storage and PCR. They are autoclavable and reusable.

Compression and Expansion AxyMats are ideal for sealing plates during thermal cycling. Thicker than PCR AxyMats, these form an optimal seal between the cycler's heated lid and the wells, minimizing evaporation and well-to-well contamination. They are autoclavable and reusable.

Axygen 8-strip caps applied to multi-well microplates offer a quick and effective way to seal selected rows and subsequently access individual wells.

ThermalSeal is ideal for PCR applications as it eliminates evaporation and well-to-well contamination. It is also useful for sample storage and transport. Made of 2 mil pressure-resistant polypropylene film.

AluminumSeal is designed for high throughput screening applications, but is also popular for long-term storage, transport and PCR.



Axygen products are manufactured in a clean, controlled "state of the art" facility and certified DNase-/RNase-free and nonpyrogenic




► Barcoding available on skirted plates

96 Well PCR Microplates and Sealing Mats for 0.2 mL thermal cycler blocks


Axygen® 96 well PCR microplates are designed to fit standard 96 well blocks. The consistent and ultra-thin wall allows precise thermal transfer for optimum results. Microplates can be sealed with 8 or 12 strip caps, AxyMats or sealing film.

PCR CONSUMABLES

Type	Volume	Color	Packaging	Cat. No.	Description
No Skirt, Flat Top, Low Profile 	100 µL	Clear	Bulk	PCR-96-LP-FLT-C	96-well, no skirt, low profile
	100 µL	White	Bulk	PCR-96-LP-FLT-W	96-well, no skirt, low profile
	100 µL	Black	Bulk	PCR-96-LP-FLT-BK	96-well, no skirt, low profile
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 5 plates/sleeve, 5 sleeves/pack, 4 packs/case; Mats = 10 mats/pack, 5 packs/case
Compatibility: Standard Biometra thermal cyclers, Eppendorf MasterCycler qPCR, MJ Opticon/Chromo4 qPCR


Volume to Brim of Well	Working Volume	Volume with AxyMat
210 µL	180 µL	100 µL
Maximum G-force = 4,000 RCF		



Sealing Options


- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

▶ Clear, thin wall well bottom

No Skirt, Elevated Wells 	200 µL	Clear	Bulk	PCR-96-C	96-well, no skirt
	200 µL	Clear	Bulk	PCR-96-MB-C	96-well, no skirt, elevated wells
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
Compatibility: Standard thermal cycling, No skirt strategine MX4000, Elevated wells Megabace sequencer


Volume to Brim of Well	Working Volume	Volume with AxyMat
350 µL	300 µL	240 µL
Maximum G-force = 4,000 RCF		



Sealing Options

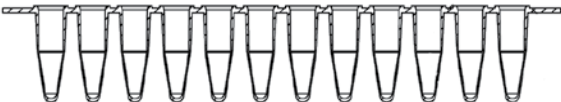
- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

▶ Clear, thin wall well bottom

No Skirt, Flat Top 	200 µL	Clear	Bulk	PCR-96-FLT-C	96-well, no skirt
	200 µL	White	Bulk	PCR-96-FLT-W	96-well, no skirt
	200 µL	Black	Bulk	PCR-96-FLT-BK	96-well, no skirt
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 5 plates/sleeve, 5 sleeves/pack, 4 packs/case; Mats = 10 mats/pack, 5 packs/case
Compatibility: Standard thermal cycling, BioRad qPCR systems, Stratagene MX-3000

Volume to Brim of Well	Working Volume	Volume with AxyMat
330 µL	300 µL	270 µL
Maximum G-force = 4,000 RCF		



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

▶ Clear, thin wall well bottom

Type	Volume	Color	Packaging	Cat. No.	Description
Half Skirt, Low Profile	100 µL	Clear	Bulk	PCR-96-LP-AB-C	96-well rapid PCR plate, low profile
	100 µL	Clear	Bulk	PCR-96-LP-AB-C-BC	96-well rapid PCR plate, low profile, barcoded
	100 µL	White	Bulk	PCR-96-LP-AB-W	96-well rapid PCR plate, low profile
	100 µL	Black	Bulk	PCR-96-LP-AB-BK	96-well rapid PCR plate, low profile
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 5 plates/sleeve, 5 sleeves/pack, 4 packs/case; Mats = 10 mats/pack, 5 packs/case
 Compatibility: ABI Fast PCR 7500, 7900 Fast, 9800, Veriti and StepOne



- ▶ Optimized for Fast PCR
- ▶ Reduced volume minimizes potential evaporation

Volume to Brim of Well	Working Volume	Volume with AxyMat
240 µL	200 µL	140 µL

Maximum G-force = 4,000 RCF



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

Half Skirt	100 µL	Clear	Bulk	PCR-96-LC480-C-NF	96-well PCR microplate for Roche 480 Light Cycler, clear, no sealing film
	100 µL	White	Bulk	PCR-96-LC480-W	96-well PCR microplate for Roche 480 Light Cycler, white, with sealing film
	100 µL	White	Bulk	PCR-96-LC480-W-BC	96-well PCR microplate for Roche 480 Light Cycler, white, barcoded, with sealing film
	100 µL	White	Bulk	PCR-96-LC480-W-NF	96-well PCR microplate for Roche 480 Light Cycler, white, no sealing film
	-	-	Bulk	UC-500	UltraClear film, pressure sensitive

Quantity: 10 plates/pack, 5 packs/case; *100 plates/case; Film = 100 films/pack, 5 packs/case
 Compatibility: Roche 480 Light Cycler



- ▶ Cut-away notches for perfect plate positioning
- ▶ Consistently thin walls for reduced cycle times and reproducible results
- ▶ Optional barcoding

Volume to Brim of Well	Working Volume	Volume with UC-500
210 µL	190 µL	120 µL

Maximum G-force = 4,000 RCF

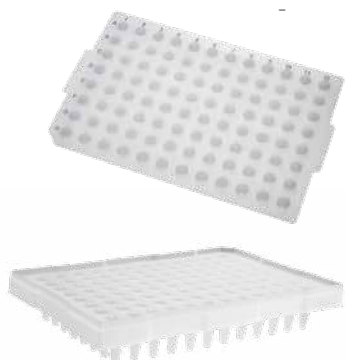


Sealing Options

- Adhesive Films

Elevated, Half Skirt	200 µL	Clear	Bulk	PCR-96-AB-C	96-well, elevated skirt
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

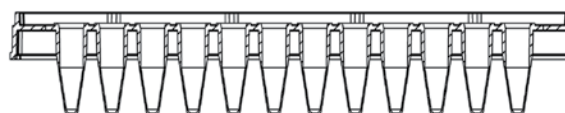
Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Compatibility: ABI Real Time PCR 7300, 7500, 7900



- ▶ Single notch corner

Volume to Brim of Well	Working Volume	Volume with AxyMat
335 µL	300 µL	260 µL

Maximum G-force = 4,000 RCF



Sealing Options

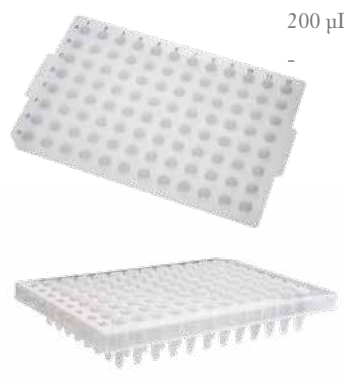
- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

PCR CONSUMABLES

PCR CONSUMABLES

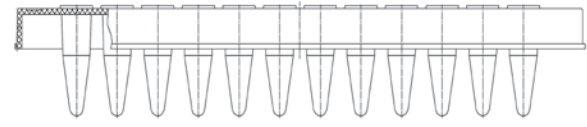
Type	Volume	Color	Packaging	Cat. No.	Description
Half Skirt	200 µL	Clear	Bulk	PCR-96M2-HS-C	96-well, half skirt
	200 µL	Clear	Bulk	PCR-96-HS-C	96-well, half skirt
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Compatibility: Standard thermal sequence cyclers, ABI PCR 2700, 2720, 9700, 9800, 7300, 7500, 7900 and ABI sequencing units



- ▶ PCR-96M2-HS-C has a single notch corner
- ▶ Clear, thin wall well bottom
- ▶ Available in black and white

Volume to Brim of Well	Working Volume	Volume with AxyMat
340 µL	300 µL	230 µL
Maximum G-force = 4,000 RCF		



Sealing Options

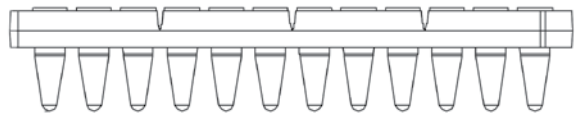
- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

Half Skirt, Segmented	200 µL	Clear	Bulk	PCR-96-SG-C	96-well, segmented
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Compatibility: Standard thermal sequence cyclers, Beckman CEQ Sequencers



Volume to Brim of Well	Working Volume	Volume with AxyMat
320 µL	280 µL	240 µL
Maximum G-force = 4,000 RCF		



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

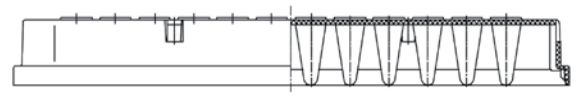
Full Skirt	200 µL	Clear	Bulk	PCR-96-FS-C	96-well, full skirt
	-	-	Bulk	AM-96-PCR-RD	96-well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Compatibility: Standard thermal sequence cyclers, Automation friendly



- ▶ Single notch corner
- ▶ Clear, thin wall well bottom
- ▶ Stackable, automation-compatible design
- ▶ Available in black and white

Volume to Brim of Well	Working Volume	Volume with AxyMat
220 µL	190 µL	120 µL
Maximum G-force = 4,000 RCF		



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils
- Flat & Domed Cap Strips

384 Well PCR Microplates and Sealing Mats for 0.2 mL thermal cycler blocks

Axygen® 384 well PCR microplates are designed to fit standard 384 well blocks. The consistent and ultra-thin wall allows precise thermal transfer for optimum results. Automation-compatible full skirt designs can be sealed with AxyMats or sealing film.

Type	Volume	Color	Packaging	Cat. No.	Description
Full Skirt	20 µL	Clear	Bulk	PCR-384-LC480-C-NF	384-well PCR microplate for Roche 480 Light Cycler, clear, no sealing film
	20 µL	White	Bulk	PCR-384-LC480-W	384-well PCR microplate for Roche 480 Light Cycler, white, with sealing film
	20 µL	White	Bulk	PCR-384-LC480-W-BC	384-well PCR microplate for Roche 480 Light Cycler, white, barcoded, with sealing film
	20 µL	White	Bulk	PCR-384-LC480-W-NF	384-well PCR microplate for Roche 480 Light Cycler, white, no sealing film
	20 µL	White	Bulk	PCR-384-LC480-W-NF-BC	384-well PCR microplate for Roche 480 Light Cycler, white, barcoded, no sealing film
-	-	-	Bulk	UC-500	UltraClear film, pressure sensitive

Quantity: 10 plates/pack, 5 packs/case; *100 plates/case; Film = 100 films/pack, 5 packs/case
 Compatibility: Roche 480 Light Cycler



- ▶ Cut-away notches for perfect plate positioning
- ▶ Consistently thin walls for reduced cycle times and reproducible results
- ▶ Optional barcoding

Volume to Brim of Well	Working Volume	Volume with AxyMat
50 µL	45 µL	35 µL
Maximum G-force = 4,000 RCF		

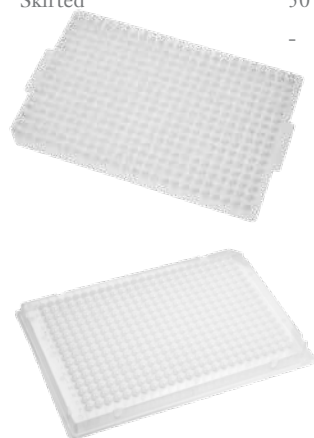
Sealing Options

Adhesive Films and Foils



Skirted	50 µL	Clear	Bulk	PCR-384-C	384-well, skirted
	-	-	Bulk	AM-384-PCR-RD	384 well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Application/Compatibility: Standard thermal cycling



- ▶ Notches on A24 and P24 side
- ▶ Automation-compatible design

Volume to Brim of Well	Working Volume	Volume with AxyMat
50 µL	45 µL	35 µL
Maximum G-force = 4,000 RCF		

Sealing Options

AxyMats
 Heat Sealing
 Adhesive Films and Foils



PCR CONSUMABLES

PCR CONSUMABLES

Type	Volume	Color	Packaging	Cat. No.	Description
Skirted	55 μ L	Clear	Bulk	PCR-384M2-C	384-well
	-	-	Bulk	AM-384-PCR-RD	384 well PCR sealing mat

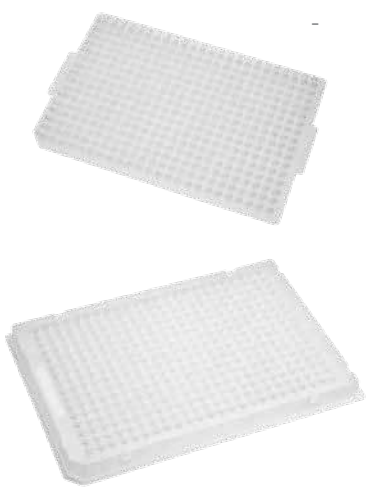
Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Application/Compatibility: Standard thermal cycling, Fully ABI compatible for qPCR and Sequencing

Volume to Brim of Well	Working Volume	Volume with AxyMat
50 μ L	45 μ L	35 μ L
Maximum G-force = 4,000 RCF		



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils

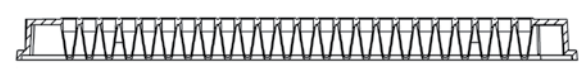


- ▶ Notch on A24 side
- ▶ Automation-compatible design

Skirted, Rigid	50 μ L	Clear	Bulk	PCR-384-RGD-C	384-well RigiPlate®
	-	-	Bulk	AM-384-PCR-RD	384 well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Application/Compatibility: Standard thermal cycling, ABI sequencing, Automation applications

Volume to Brim of Well	Working Volume	Volume with AxyMat
42 μ L	35 μ L	30 μ L
Maximum G-force = 4,000 RCF		



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils



- ▶ Notch on A24 side
- ▶ Automation-compatible design

Skirted, Elevated Wells	55 μ L	Clear	Bulk	PCR-384-55-C	384-well, skirted, elevated
	-	-	Bulk	AM-384-PCR-RD	384 well PCR sealing mat

Quantity: Plates: 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case
 Application/Compatibility: Standard thermal cycling, ABI sequencing, qPCR

Volume to Brim of Well	Working Volume	Volume with AxyMat
55 μ L	50 μ L	40 μ L
Maximum G-force = 4,000 RCF		



Sealing Options

- AxyMats
- Heat Sealing
- Adhesive Films and Foils



- ▶ Notch on A24 side
- ▶ Raised wells allow 55 μ L volume

Type	Volume	Color	Packaging	Cat. No.	Description
24, 32, and 48-well	200 µL	Clear	Bulk	PCR-24-C	24-well plate
	200 µL	Clear	Bulk	PCR-32-C	32-well plate
	200 µL	Clear	Bulk	PCR-48-C	48-well plate

Quantity: 10 plates/pack, 5 packs/case



PCR-24-C




PCR-32-C




PCR-48-C

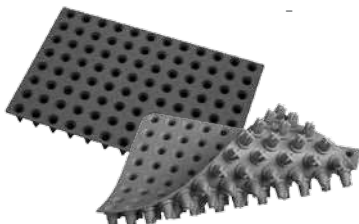
Microplate	Volume to Brim of Well	Working Volume	Volume with AxyMat
PCR-24-C PCR-32-C PCR-48-C	350 µL	300 µL	240 µL

Capillary Sequencing Products	Volume	Color	Packaging	Cat. No.	Description
	0.5 mL	Clear	Bulk	TUB-310-NC	Capless tube for ABI Prism 310 sequencer

Quantity: 500 tubes/pack, 5 packs/case

	-	Grey	Bulk	AM-SEPTA-310	Individual Septa caps for 0.5 mL ABI Prism 310 sequencer tubes
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Quantity: 500 tubes/pack, 5 packs/case

	-	Grey	Bulk	AM-96-SEPTA-3100	Septa mat for ABI multi-capillary sequencing instruments
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Quantity: 10 mats/pack, 5 packs/case



PCR Tubes

Axygen® polypropylene, thin wall PCR tubes with and without caps are designed to fit standard 96 well blocks and are available in an assortment of colors. The consistent and ultra-thin wall allows precise thermal transfer. An even insertion cap ensures a tight fit to reduce evaporation.

PCR CONSUMABLES

Type	Max Volume	Color	Description	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
	0.2 mL	MaxyClear	Thin wall, flat cap	Bulk	PCR-02-C	PCR-02-L-C
	0.2 mL	Assorted			PCR-02-A	
	0.2 mL	Blue			PCR-02-B	
	0.2 mL	Green			PCR-02-G	
	0.2 mL	Orange			PCR-02-O	
	0.2 mL	Red			PCR-02-R	
	0.2 mL	Violet			PCR-02-V	
	0.2 mL	Yellow			PCR-02-Y	
Quantity: 1000 tubes/pack, 10 packs/case						
	0.2 mL	MaxyClear	Thin wall, domed cap	Bulk	PCR-02D-C	PCR-02D-L-C
	0.2 mL	Assorted			PCR-02D-A	
	0.2 mL	Blue			PCR-02D-B	
	0.2 mL	Green			PCR-02D-G	
	0.2 mL	Orange			PCR-02D-O	
	0.2 mL	Red			PCR-02D-R	
	0.2 mL	Violet			PCR-02D-V	
	0.2 mL	Yellow			PCR-02D-Y	
Quantity: 1000 tubes/pack, 10 packs/case						
	0.2 mL	MaxyClear	Thin wall, no cap	Bulk	PCR-02-NC	
Quantity: 1000 tubes/pack, 10 packs/case						
	0.5 mL	MaxyClear	Thin wall, flat cap	Bulk	PCR-05-C	PCR-05-L-C
	0.5 mL	Assorted			PCR-05-A	
	0.5 mL	Blue			PCR-05-B	
	0.5 mL	Green			PCR-05-G	
	0.5 mL	Orange			PCR-05-O	
	0.5 mL	Red			PCR-05-R	
	0.5 mL	Violet			PCR-05-V	
	0.5 mL	Yellow			PCR-05-Y	
Quantity: 1000 tubes/pack, 10 packs/case						

**PCR Tube Storage Rack:
0.2 mL**













Color	Description	Packaging	Cat. No.
Fluorescent Pink	PCR Storage Rack for 0.2 mL tubes	Bulk	R-96-PCR-FP
Fluorescent Blue	PCR Storage Rack for 0.2 mL tubes	Bulk	R-96-PCR-FB
Fluorescent Green	PCR Storage Rack for 0.2 mL tubes	Bulk	R-96-PCR-FG
Fluorescent Yellow	PCR Storage Rack for 0.2 mL tubes	Bulk	R-96-PCR-FY
Fluorescent Orange	PCR Storage Rack for 0.2 mL tubes	Bulk	R-96-PCR-FO

Quantity: 5 racks/pack, 5 packs/case

PCR Strip Tubes and Caps

Axygen® thin wall PCR strip tubes are designed to fit a variety of thermal cyclers. The consistent and ultra-thin wall allows precise thermal transfer. An even insertion cap ensures a tight fit to reduce evaporation. Strip tubes are available in an assortment of colors.

Optical flat cap strips feature ultra-clear upper surfaces, ideal for fluorescent luminescent and real-time PCR applications. They offer a light transmittance that is 75% higher than with standard strip caps. Made to seal tube strips and 96 well microplates.

Type	Max Volume	Color	Description	Packaging	Cat. No.
8-Strip, Domed Caps 		MaxyClear	Domed 8-strip caps	Bulk	PCR-02CP-C
8-Strip, Flat Caps 		MaxyClear	Flat 8-strip caps with writing surface	Bulk	PCR-02-FCP-C
8-Strip, Thin Wall Caps 		MaxyClear	Thin wall PCR 8-strip caps for qPCR	Bulk	PCR-2CP-RT-C
8-Strip, Thin Wall Tubes 	0.2 mL	MaxyClear	Thin wall PCR 8-strip tubes	Bulk	PCR-0208-C
8-Strip, Thin Wall Tubes, Plus Domed Caps 	0.2 mL	MaxyClear	Thin wall PCR 8-strip tubes and domed strip caps	Bulk	PCR-0208-CP-C
8-Strip, Thin Wall Tubes, Plus Flat Caps 	0.2 mL	MaxyClear	Thin wall PCR 8-strip tubes and flat strip caps	Bulk	PCR-0208-FCP-C
12-Strip, Thin Wall Tubes 	0.2 mL	Clear	Thin wall PCR 12-strip tubes	Bulk	PCR-0212-C
12-Strip, Thin Wall Tubes, Plus Flat Caps 	0.2 mL	Clear	Thin wall PCR 12-strip tubes and flat strip caps	Bulk	PCR-0212-FCP-C
8-Strip, Low Profile Tubes 	0.1 mL 0.1 mL	MaxyClear White	Low profile 8-strip tubes	Bulk Bulk	PCR-0108-LP-C PCR-0108-LP-W
8-Strip, Low Profile Tubes, Plus Real-Time Caps 	0.1 mL 0.1 mL	MaxyClear White	Low profile 8-strip tubes and real-time strip caps	Bulk Bulk	PCR-0108-LP-RT-C PCR-0108-LP-RT-W

Quantity: 8-Strip = 125 strips/pack, 10 packs/case; 12-strip = 80 strips/pack, 10 packs/case

PCR Plates Compatibility Chart
















PCR CONSUMABLES

		Real Time PCR Thermal Cyclers																			
Brand		Applied Bio-systems						BioRad			Eppendorf	Roche	MJ Research		Stratagene	Technica					
Model	Cat. Page No.	7000	7300	7500	7700	7900HT	StepOne	Step One PlusS	ViiA 7	QuantStudio 12K	iCycler	MyiQ	iQ5	MasterCycler ep epiplate	Lightcycler 480	Opticon	Opticon 2	Chromo4	MX-4000	MX-3000	Quantica

Real Time PCR Thermal Cyclers													
Applied Bio-systems						Biometra						BioRad	
Model	Cat. Page No.	Veriti	9600	9700	9800 FAST	2720	Uno	Uno II	T1 Thermal Cycler	Tgradient	Trobot	iCycler	MyCycler

Oxygen Plate Cat. No.

* compatible with ABI Fast PCR Only

PCR-96-FLT		44	●	●	●	●							●	●	●									●	●	
PCR-96-LP-FLT		44												●		●	●	●	●	●						
PCR-96		44									●	●	●						●						●	●
PCR-96-MB		44																								
PCR-96-SG		46									●		●													
PCR-96M2-HS		46	●	●	●	●	●		●	●	●		●											●	●	
PCR-96-AB		45	●	●	●	●	●		●	●																
PCR-96-LP-AB		45		●*		●*	●	●	●															●*		●
PCR-96-FS		46											●	●		●	●	●							●	●
PCR-96-LC480		45													●											
PCR-384		47																							●	●
PCR-384M2		48				●		●	●																●	●
PCR-384-55		48																							●	●
PCR-384-RGD		48																							●	●
PCR-384-LC480		47													●											



Storage

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STORAGE

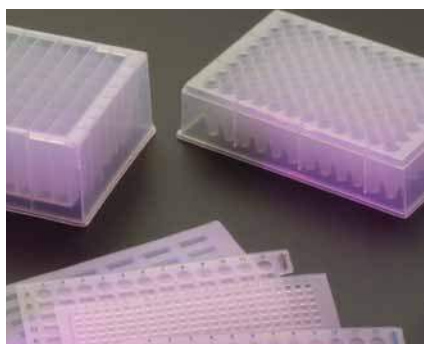


Axygen products are manufactured in a clean, controlled "state of the art" facility and certified DNase-/RNase-free and nonpyrogenic

STORAGE

Axygen®'s Extensive Line of Storage Products

Axygen provides researchers with solutions to the challenges in drug discovery. With the ever-growing pressure to find the next blockbuster drug, technicians are faced with the need to screen targets more efficiently against a larger library of compounds. Automation has greatly streamlined many standard lab tasks, including liquid handling and sample manipulation. However, these same methods have also increased the need for precisely engineered and consistently manufactured lab consumables. Count on Axygen to be at the forefront of new product R&D and manufacturing improvements, ensuring your complete satisfaction with every item.



Deep Well and Assay Plates are used for sample collection, in-vitro growth chambers and long-term storage. Made of virgin polypropylene, they offer excellent chemical resistance and will withstand temperatures down to -80°C .



Single Well and Multiple Well Reservoirs are a complete line of reagent vessels in numerous formats for automated and manual applications. All are designed with an ANSI/SBS footprint for compatibility with most automation workstations and are made of virgin polypropylene for excellent chemical resistance.



AxyMats™ are patented sealing mats designed for high throughput screening and storage applications. Made of research-grade silicone, they can be autoclaved. Following a bleach wash and ethanol rinse protocol, they can be reused. AxyMats are piercable and self-sealing, ideal for automated processes and can be used in sub-zero environments.







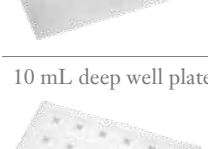





Chemically Resistant ImpermaMats™ are a chemical-resistant line of sealing mats made for use in assays involving strong solvents such as DMSO and similarly harsh solvents. Specifically designed for Axygen deep well plates and microplates, they contain no extractables to contaminate samples. ImpermaMats feature a tight seal to the plate to reduce evaporation and well to well contamination. Usable within a wide temperature range, from -80°C to $+121^{\circ}\text{C}$. They are reusable.

Deep Well and Assay Microplates





Axygen® deep well and assay microplates are used for sample collection, in vitro growth chamber and long-term storage. Made of polypropylene. They offer excellent chemical resistance and will withstand temperatures down to -80°C.

- ▶ Standard ANSI/SBS footprint with centrifugation to 4,000 RCF
- ▶ Diamond shaped wells allow complete sample recovery and ultra flat surface ensures proper sealing of heat film

384 Well Diamond Microplates	Volume to Brim of Well	Working Volume	Volume with AxyMat™	Color	Packaging	Cat. No.	Description	
   	120 µL deep well plate	135 µL	125 µL	-	Clear	Bulk	P-384-120SQ-C	384 well deep well microplate
		135 µL	125 µL	-	Clear	Bulk	P-384-120SQ-C-S	384 well deep well microplate
		-	-	90 µL		Bulk	AM-384-DW-SQ	Sealing mat for 384 well microplates with square wells
		-	-	90 µL		Bulk	AM-384-SQ-IMP	Chemically resistant sealing mat for 384 well microplates with square wells
Quantity: Plates = 5 plates/pack, 10 packs/case; Mats = 10 mats/pack, 5 packs/case								
   	240 µL deep well plate	255 µL	240 µL	-	Clear	Bulk	P-384-240SQ-C	384 deep well "Diamond Plate™" with square wells
		255 µL	240 µL	-	Clear	Bulk	P-384-240SQ-C-S	385 deep well "Diamond Plate™" with square wells, sterile
		-	-	210 µL		Bulk	AM-384-DW-SQ	Sealing mat for 384 well microplates with square wells
		-	-	210 µL		Bulk	AM-384-SQ-IMP	Chemically resistant sealing mat for 384 well microplates with square wells
Quantity: Plates = 5 plates/pack, 10 packs/case; Mats = 10 mats/pack, 5 packs/case								
 	5.0 mL deep well plate - rectangular wells	4.9 mL	4.6 mL	-	Clear	Bulk	P-5ML-48-C	48 well deep well plate, 5.0 mL rectangular wells
		4.9 mL	4.6 mL	-	Clear	Bulk	P-5ML-48-C-S	48 well deep well plate, 5.0 mL rectangular wells, sterile
		-	-	4.0 mL		Bulk	AM-48-IMP	Chemically resistant sealing mat for 5.0 mL 48 well deep well plates
Quantity: Plates = 25 plates/case; Mats = 10 mats/pack, 5 packs/case Plates are available in black and white by special order								
 	10 mL deep well plate	11 mL	10 mL	-	Clear	Bulk	P-DW-10ML-24-C	24 well deep well plate with rectangular wells
		11 mL	10 mL	-	Clear	Bulk	P-DW-10ML-24-C-S	24 well deep well plate with rectangular wells, sterile
		-	-	9 mL		Bulk	AM-24-SQ	Piercable sealing mat for 24 well deep well plates with square wells
Quantity: Plates = 5 plates/pack, 5 packs/case Plates are available in black and white by special order								

96 Well Microplates	Volume to Brim of Well	Working Volume	Volume with AxyMat™	Color	Packaging	Cat. No.	Description
	1.6 mL	1.4 mL	-	Clear	Bulk	P-1ML-SQ-C	96 square well deep well plate
	1.6 mL	1.4 mL	-	Clear	Bulk	P-1ML-SQ-C-S	96 square well deep well plate, sterile
	-	-	1.1 mL		Bulk	AM-2ML-SQ-IMP	Chemically resistant sealing mat for 2.0 mL 96 well deep well plates with rectangular wells
Quantity: Plates = 5 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs case							
	2.3 mL	2.2 mL	-	Clear	Bulk	P-2ML-SQ-C	96 well deep well plate, 2.0 mL square wells
	2.3 mL	2.2 mL	-	Clear	Bulk	P-2ML-SQ-C-S	96 well deep well plate, 2.0 mL square wells, sterile
	-	-	1.9 mL		Bulk	AM-2ML-SQ	96 well square well sealing mat for square well plates
	-	-	1.9 mL		Bulk	AM-2ML-SQ-IMP	Chemically resistant sealing mat for 2.0 mL 96 well deep well plates with rectangular wells
Quantity: Plates = 5 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs case							
	1.5 mL	1.1 mL	-	Clear	Bulk	P-DW-11-C	96 well deep well plate, 1.1 mL round wells
	1.5 mL	1.1 mL	-	Clear	Bulk	P-DW-11-C-S	96 well deep well plate, 1,1 mL round wells, sterile
	-	-	0.95 mL		Bulk	AM-2ML-RD	Sealing mat for 96-well assay platse with round wells
	-	-	0.95 mL		Bulk	AM-2ML-RD-IMP	Chemically resistant sealing mat for 96 well assay plates with round wells
Quantity: 5 plates/pack, 10 packs/case; Mats = 10 mats/pack, 5 packs/case							
	1.35	1.25	-	Clear	Bulk	P-DW-12-HC	96 well deep well high clarity plate
			-	Clear	Bulk	P-DW-12-HC-S	96 well deep well high clarity plate, sterile
	-	-	1.1 mL		Bulk	AM-2ML-RD	Sealing mat for 96-well assay platse with round wells
	-	-	1.1 mL		Bulk	AM-2ML-RD-IMP	Chemically resistant sealing mat for 96 well assay plates with round wells
Quantity: 50 plates/case							



STORAGE

96 Well Microplates	Volume to Brim of Well	Working Volume	Volume with AxyMat™	Color	Packaging	Cat. No.	Description
	1.9 mL	1.8 mL	-	Clear	Bulk	P-DW-20-C	96 well deep well plate, 2.0 mL round wells
	1.9 mL	1.8 mL	-	Clear	Bulk	P-DW-20-C-S	96 well deep well plate, 2.0 mL round wells, sterile
	-	-	1.5 mL		Bulk	AM-2ML-RD	Sealing mat for 96 well assay plate with 'V' wells
	-	-	1.5 mL		Bulk	AM-2ML-RD-IMP	Chemically resistant sealing mat for 96 well assay plates with round wells
Quantity: Plates = 5 plates/pack, 10 packs/case; Mats = 10 mats/pack, 5 packs/case							
	610 µL	560 µL	-	Clear	Bulk	P-DW-500-C	96 well deep well plate, 600 µL
	610 µL	560 µL	-	Clear	Bulk	P-DW-500-C-S	96 well deep well plate, 600 µL, sterile
	-	-	450 µL		Bulk	AM-500UL-RD	Sealing mat for 600 µL 96 well deep well plates
Quantity: Plates = 5 plates/pack, 10 packs/case; Mats = 10 mats/pack, 5 packs/case							
	550 µL	450 µL	-	Clear	Bulk	P-96-450R-C	96 well assay round bottom plate
	550 µL	450 µL	-	Clear	Bulk	P-96-450R-C-S	96 well assay round bottom plate, sterile
	-	-	350 µL		Bulk	AM-2ML-RD	Sealing mat for 96 well assay plates with round wells
	-	-	350 µL		Bulk	AM-2ML-RD-IMP	Chemically resistant sealing mat for 96 well assay plates with round wells
Quantity: Plates = 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case							
	500 µL	450 µL	-	Clear	Bulk	P-96-450V-C	96 well assay 'V' bottom plate
	500 µL	450 µL	-	Clear	Bulk	P-96-450V-C-S	96 well assay 'V' bottom plate, sterile
	-	-	350 µL		Bulk	AM-2ML-RD	Sealing mat for 96 well assay plate with round wells
	-	-	350 µL		Bulk	AM-2ML-RD-IMP	Chemically resistant sealing mat for 96 well assay plates with round wells
Quantity: Plates = 10 plates/pack, 5 packs/case; Mats = 10 mats/pack, 5 packs/case							




Reagent Reservoirs

Axygen® offers a complete line of single well and multiple well reagent reservoirs which are available in multiple formats for automated and manual use. All reservoirs are designed to comply with ANSI/SLAS 1-2004: microplates - footprint dimensions and are compatible with most automation workstations. Reagent reservoirs are manufactured with virgin polypropylene for excellent chemical resistance.


- ▶ ANSI/SLAS footprint
- ▶ Automation compatible
- ▶ Durable for multiple use and cost effective for single use
- ▶ Various formats for any application

Single Well, 96-Well Reservoir	Maximum Volume	Maximum Volume/Well	Color	Cat. No.	Description
	86 mL	-	Clear	RES-SW96-LP	Reservoir, single well, 96 bottom troughs, low profile
	240 mL	-	Clear	RES-SW96-HP	Reservoir, single well, 96 bottom troughs, high profile

Quantity: 25 reservoirs/case; Sterile reservoirs are available by special order




Single Well, 384 Well Reservoir	Maximum Volume	Maximum Volume/Well	Color	Cat. No.	Description
	92 mL	-	Clear	RES-SW384-LP	Reservoir, single well, 384 bottom, low profile
	170 mL	-	Clear Clear	RES-SW384-FX RES-SW384-FX-SI	Reservoir, single well, 384 bottom, medium profile Reservoir, single well, 384 bottom, medium profile, sterile, individually wrapped
	282 mL	-	Clear	RES-SW384-HP	Reservoir, single well, 384 bottom, high profile

Quantity: 25 reservoirs/case; Sterile reservoirs are available by special order






	-	-	Clear	RES-BAFFLE	Baffle for reservoir
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Quantity: 10 baffles/unit, 1 unit/case

HIGH THROUGHPUT SCREENING

Single Well, Low and High Profile	Maximum Volume	Maximum Volume/Well	Color	Cat. No.	Description
	90 mL	-	Clear Clear	RES-SW1-LP RES-SW1-LP-SI	Reservoir, single well, 1 flat bottom, low profile Reservoir, single well, 1 flat bottom, low profile, sterile, individually wrapped
	290 mL	-	Clear Clear	RES-SW8-HP RES-SW8-HP-S	Reservoir, single-well, 8 channel troughs, high profile Reservoir, single-well, 8 channel troughs, high profile, sterile
	290 mL	-	Clear	RES-SW12-HP	Reservoir, single well, 12 channel troughs, high profile

Quantity: 25 reservoirs/case; Sterile reservoirs are available by special order

Multiple Well, Low and High Profile	Maximum Volume	Maximum Volume/Well	Color	Cat. No.	Description
			Clear	RES-MW4-HP	Reservoir, multiple-well, 4 channel troughs, high profile
	80 mL	10 mL	Clear	RES-MW8-LP	Reservoir, multiple-well, 8 channel troughs, low profile
	240 mL	30 mL	Clear	RES-MW8-HP	Reservoir, multiple-well, 8 channel troughs, high profile
	84 mL	7 mL	Clear	RES-MW12-LP	Reservoir, multiple-well, 12 channel troughs, low profile
	264 mL	22 mL	Clear	RES-MW12-HP	Reservoir, multiple-well, 12 channel troughs, high profile

Quantity: 25 reservoirs/case; Sterile reservoirs are available by special order







STORAGE

Compound Library Storage - Mini Tube System (MTS)

Axygen® MTS are available in 0.65 mL, single mini tube or 1.1 mL, single mini tube. They are also available in 8-strip or 12-strip format. MTS racks are compatible with Beckman Coulter®, Tecan® and other automation workstations.

- ▶ Rack features a one-way lid design and alpha-numeric grid
- ▶ Molded-in condensation rings on the lid minimize cross contamination



Mini Tube System (MTS)	Tube Volume	Packaging	Cat. No.	Description
	1.33 mL	Bulk	MTS-11-C	Mini Tube, single
	1.33 mL	Racked	MTS-11-C-R	Mini Tube, single
	1.33 mL	Racked, Sterile	MTS-11-C-R-S	Mini Tube, single
Quantity: 96 tubes/rack, 10 racks/pack; 5 packs/case; Bulk = 960 tubes/bag, 5 bags/case				
	1.33 mL	Bulk	MTS-11-8-C	Mini Tube, 8-strip
	1.33 mL	Racked	MTS-11-8-C-R	Mini Tube, 8-strip
	1.33 mL	Racked, Sterile	MTS-11-8-C-R-S	Mini Tube, 8-strip, sterile
Quantity: 12 tubes/rack, 10 racks/pack; 5 packs/case; Bulk = 120 tubes/bag, 5 bags/case				
	1.33 mL	Bulk	MTS-11-12-C	Mini Tube, 12-strip
	1.33 mL	Racked	MTS-11-12-C-R	Mini Tube, 12-strip
	1.33 mL	Racked, Sterile	MTS-11-12-C-R-S	Mini Tube, 12-strip, sterile
Quantity: 8 tubes/rack, 10 racks/pack; 5 packs/case; Bulk = 80 tubes/bag, 5 bags/case				
	0.9 mL	Bulk	MTS-06-C	Mini Tube, single
	0.9 mL	Racked	MTS-06-C-R	Mini Tube, single
	0.9 mL	Racked, Sterile	MTS-06-C-R-S	Mini Tube, single
Quantity: 96 tubes/rack, 10 racks/pack; 5 packs/case; Bulk = 960 tubes/bag, 5 bags/case				
		Bulk	MTS-8CP-C	Mini Tube, 8-strip
		Bulk, Sterile	MTS-8CP-C-S	Mini Tube, 8-strip
Quantity: 120 strips/pack, 5 packs/case				
		Bulk	MTS-12CP-C	Mini Tube, 12-strip
		Bulk, Sterile	MTS-12CP-C-R-S	Mini Tube, 12-strip
Quantity: 80 strips/pack, 5 packs/case				



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SEALING SOLUTIONS

For applications ranging from PCR and Real Time PCR to ELISA and cell culture, Axygen films are the easy and cost effective way to seal your plates. Available in sticky sheet format and heat seal sheet or roll formats.

- ▶ Lids are available in polypropylene and polystyrene; lids provide an easy way to cover most microplates
- ▶ An extensive range of ImpermaMats™ offer excellent protection for applications involving aggressive solvents
- ▶ Sealing films offer great economy for disposable use
- ▶ AxyMats™ and ImpermaMats can be reused and are autoclavable
- ▶ Films and mats can be used in a wide temperature range



Plate Sealing

Each 'well-sealer' incorporates a 'scored' area for puncturing by a syringe needle which allows samples to be dispensed and/or aspirated even while the AxyMat is in place. Once punctured each 'well-sealer' will reseal itself, ensuring an airtight seal to the well.



Axygen products are manufactured in a clean, controlled "state of the art" facility and certified DNase-/RNase-free and nonpyrogenic

Axygen offers an extensive array of plate sealing options suitable for any preference or application.

PCR AxyMats™ are research-grade silicone sealing mats designed for long or short-term sample storage and PCR. They are autoclavable and reusable.

Compression and Expansion AxyMats are ideal for sealing plates during thermal cycling. Thicker than PCR AxyMats, these form an optimal seal between the cyclers heated lid and the wells, eliminating evaporation and well-to-well contamination. They are autoclavable and reusable.

Axygen 8-strip caps applied to multi-well microplates offer a quick and effective way to seal selected rows and subsequently access individual wells.

ThermalSeal is ideal for PCR applications as it eliminates evaporation and well-to-well contamination. It is also useful for sample storage and transport. Made of 2 mil pressure-resistant polypropylene film.

AluminumSeal is designed for high throughput screening applications, but is also popular for long-term storage, transport and PCR.

SealPlate is ideal for ELISA/EIA applications. It is a 2 mil polyester based film with acrylic adhesive.



AxyMat™ Sealing Mats

Axygen® AxyMat sealing mats can be used in a wide range of temperatures for PCR and storage applications. AxyMats minimize evaporation and are made of research-grade silicone which can be autoclaved. They can be reused following a bleach wash and ethanol rinse protocol.













Type	Mat Type	Packaging	Description	Cat. No.						
For PCR Microplates	AxyMat	Bulk	Sealing mat for 96 well PCR microplate	AM-96-PCR-RD						
	 PCR-96-C	 PCR-96-MB-C	 PCR-96-LP-FLT-C	 PCR-96-FLT-C	 PCR-96-SG-C	 PCR-96-AB-C	 PCR-96-LP-AB-C	 PCR-96M2-HS-C	 PCR-96-FS-C	
	AxyMat	Bulk	Sealing mat for 384 well PCR microplate	AM-384-PCR-RD						
	 PCR-384-C	 PCR-384M2-C	 PCR-384-RGD-C	 PCR-384-55-C						
For Assay and Storage Plates	AxyMat	Bulk	Sealing mat for 96 well assay plates with round wells	AM-2ML-RD						
	AxyMat	Bulk	Sealing mat for 96 well assay plates with round wells, sterile	AM-2ML-RD-S						
	 P-DW-11-C	 P-DW-20-C	 P-96-450R-C	 P-96-450V-C						
	AxyMat	Bulk	Sealing mat for 500 µL 96 well deep well plates	AM-500UL-RD						
	 P-DW-500-C									
	AxyMat	Bulk	Sealing mat for 96 well square well square well plates	AM-2ML-SQ						
	 P-2ML-SQ-C									
	AxyMat	Bulk	Sealing mat for 750 µL 96 well round well plate and ELISA plate	AM-750UL-RD						
	 AM-750UL-RD									
			Optimized to fit 1.0 mL Corning and Greiner deep well plates as well as the Axygen MTS system.							
	AxyMat	Bulk	Sealing mat for 384 well microplates with square wells	AM-384-DW-SQ						
	 P-384-120SQ-C	 P-384-240SQ-C								
	AxyMat	Bulk	Sealing mat for 5 mL 48 well deep well plates	AM-48						
	 P-5ML-48-C									
	AxyMat	Bulk	Piercable sealing mat for 24 well deep well plates with square wells	AM-24-SQ						
	 P-DW-10ML-24-C									

Quantity: All Mats = 10 mats/pack, 5 packs/case

ImpermaMat™ Sealing Mats

Axygen® ImpermaMat AxyMat™ sealing mats can be used in a wide range of temperatures for PCR and storage applications. ImpermaMats minimize evaporation and are made of research-grade silicone which can be autoclaved. They can be reused following a bleach wash and ethanol rinse protocol. ImpermaMats are chemically resistant sealing mats that provide a high degree of confidence for storage applications involving more aggressive solvents. They do not contain any adhesives or extractables which could contaminate samples.

- Chemical resistant
- Designed for use with Axygen deep well and assay microplates
- Tight plate seal reduces sample evaporation and well-to-well contamination
- Usable within a wide temperature range, from -80°C to +121°C.
- High contrast alphanumeric grid for easy well identification






Type	Mat Type	Packaging	Description	Cat. No.
ImpermaMat	ImpermaMat	Bulk	Chemically resistant sealing mat for 1.1 mL and 2.0 mL 96 well assay plates with round wells	AM-2ML-RD-IMP
	 P-DW-11-C	 P-DW-20-C	 P-96-450R-C	 P-96-450V-C
ImpermaMat	ImpermaMat	Bulk	Chemically resistant sealing mat for 2.0 mL 96 well deep well plates with square wells	AM-2ML-SQ-IMP
	 P-2ML-SQ-C			
ImpermaMat	ImpermaMat	Bulk	Chemically resistant sealing mat for 5.0 mL 48 well deep well plates	AM-48-IMP
	 P-5ML-48-C			
ImpermaMat	ImpermaMat	Bulk	Chemically resistant sealing mat for 384 well microplates with square wells	AM-384-SQ-IMP
	 P-384-120SQ-C	 P-384-240SQ-C		

Quantity: All Mats = 10 mats/pack, 5 packs/case



Sealing Films

Axygen® microplate sealing films are designed for applications ranging from PCR and Real-Time PCR to storage. They can be used in a wide range of temperatures making them suitable for nearly any application.

Platemax™ Sealing Film	Material	Thickness	Dimensions (mm)	Working Temp. Minimum	Working Temp. Maximum	Application	Packaging	Cat. No.
Breathable	Rayon	50 µm	153 x 82.3	-20°C	80°C	Tissue Culture	Bulk	BF-400
Breathable, Sterile	Rayon	50 µm	153 x 82.3	-20°C	80°C	Tissue Culture	Bulk	BF-400-S
 <ul style="list-style-type: none"> Allows effective gas exchange for cellular and bacterial cultivation, while reducing contamination Seals polypropylene and polystyrene culture plates, 96 well plates, 384 well plates and other assay plates <p>Quantity: 100 films/pack, 10 packs/case; Sterile: 25 films/bag, 2 bags/pack, 10 packs/case</p>								
UltraClear Pressure Sensitive	Polyolefin	70 µm	141.5 x 77.7	-40°C	104°C	Real Time PCR	Bulk	UC-500
 <ul style="list-style-type: none"> Seals 96 well and 384 well PCR plates Film clarity allows for optical analysis during Real Time PCR Pressure sensitive adhesive; no tacky residues that can interfere with optical analysis <p>Quantity: 100 films/pack, 5 packs/case</p>								
Aluminum	Aluminum	35 µm	146 x 79.2	-80°C	104°C	PCR/Storage & Light Sensitive	Bulk	PCR-AS-200
	Aluminum	50 µm	133.3 x 79.2	-80°C	104°C	PCR/Storage & Light Sensitive	Bulk	PCR-AS-600
 <ul style="list-style-type: none"> Uniformly applied adhesive provides a tight seal on multiple well plates under a wide range of temperature conditions and reagents Seals during thermocycling process when used in conjunction with Axygen compression mats Ideal for light sensitive samples PCR-AS-200 is pierceable <p>Quantity: 100 films/pack, 5 packs/case</p>								
CyclerSeal	Polyester	60 µm	135.5 x 80	-40°C	104°C	PCR/Storage	Bulk	PCR-TS
 <ul style="list-style-type: none"> Tight seal across entire plate safeguards sample during transport or storage Reduces well to well contamination and cross-over in PCR applications when used with Axygen compression mats <p>Quantity: 100 films/pack, 5 packs/case</p>								
AxySeal	Polyester	80 µm	146 x 79.6	-40°C	104°C	ELISA	Bulk	PCR-SP
AxySeal, Sterile	Polyester	80 µm	146 x 79.6	-40°C	104°C	ELISA	Bulk	PCR-SP-S
 <ul style="list-style-type: none"> Polyester based with uniformly applied acrylic adhesive reduces the edge effect in sensitive ELISA assays Suitable for use on tissue culture plates, for short term storage and incubation, for transport and for the containment of biohazardous solutions <p>Quantity: 100 films/pack, 5 packs/case</p>								

Platemax™ Heat Sealing Films

Axygen® microplate heat sealing films are designed for applications ranging from PCR and Real-Time PCR to storage. They can be used in a wide range of temperatures making them suitable for nearly any application.

Heat Sealing Film	Material	Thickness	Dimensions (mm)	Working Temp. Minimum	Working Temp. Maximum	Application	Packaging	Cat. No.
Paper-backed 	Litro/ Ethylene/ Vinyl	85 µm	127.2 x 79.5 Quantity: 100 films/pack, 5 packs/case	-80°C	104°C	Storage	Bulk	MF-300
UltraClear Permanent 	Polyester	52 µm	125 x 78 Quantity: 100 films/pack, 10 packs/case; Sterile: 25 films/bag, 2 bags/pack, 10 packs/case	-80°C	110°C	qPCR, Fluorescence, Colorimetric Measurements	Bulk	HS-100-QPCR
UltraClear Peelable 	Polyester	100.5 µm	125 x 78 Quantity: 100 films/pack, 10 packs/case; Sterile: 25 films/bag, 2 bags/pack, 10 packs/case	-80°C	80°C (110°C with pressurized PCR heated lids)	qPCR, Fluorescence, Colorimetric Measurements	Bulk	HS-150-QPCR
Peelable 	Polyester/ Aluminum	70 µm	125 x 78 Quantity: 100 films/pack, 10 packs/case; Sterile: 25 films/bag, 2 bags/pack, 10 packs/case	-200°C	90°C (110°C with pressurized PCR heated lids)	Compound Storage, PCR	Bulk	HS-200
Pierceable 	Aluminum	20 µm	125 x 78 Quantity: 100 films/pack, 10 packs/case; Sterile: 25 films/bag, 2 bags/pack, 10 packs/case	-80°C	120°C	Storage Applications	Bulk	HS-300
Peelable 	Polyester/ Aluminum	70 µm	125 x 78 Quantity: 100 films/pack, 10 packs/case; Sterile: 25 films/bag, 2 bags/pack, 10 packs/case	-80°C	40°C	Compound Storage	Bulk	HS-400


Heat Sealing Films

Axygen® microplate heat sealing films are designed for applications ranging from PCR and Real-Time PCR to storage. They can be used in a wide range of temperatures making them suitable for nearly any application.



Platemax™ Heat Sealing Film, Roll	Material	Dimensions (mm)	Application	Packaging	Cat. No.
Pierceable	Aluminum	115mm x 500M		Individual Roll	HSF-AS-300-L
Pierceable	Aluminum	78mm x 610M		Individual Roll	HSF-AS-300-P
CyclerSeal, Peelable	Polyester/Aluminum	115mm x 500M	PCR, Storage	Individual Roll	HSF-TS-L
CyclerSeal, Peelable	Polyester/Aluminum	78mm x 610M	PCR, Storage	Individual Roll	HSF-TS-P
Permanent	Polyester	115mm x 500M	qPCR	Individual Roll	HSF-UCP-L
Permanent	Polyester	78mm x 610M	qPCR	Individual Roll	HSF-UCP-P
Removable	Polyester	115mm x 500M	qPCR	Individual Roll	HSF-UCR-L
Removable	Polyester	78mm x 500M	qPCR	Individual Roll	HSF-UCR-P

SEALING SOLUTIONS

Type	Description	Cat. No.
	Sealing Film Roller ▶ Ideal for the application of all PlateMax™ sealing films Quantity: 1 roller/case	PCR-SP-ROLLER



Pipet Tips

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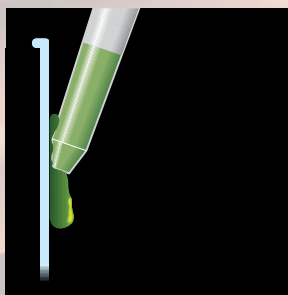


PIPET TIPS

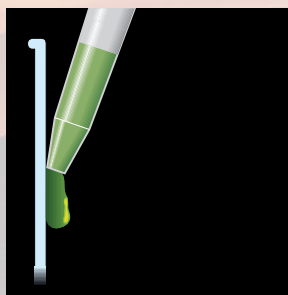
Axygen® pipet tips are designed to fit a wide variety of single and multi-channel pipettors. Flexible walls and a series of internal sealing rings ensure a secure fit with less force required to load and eject. Extended length and wide bore styles are also available.

Features

- ▶ Universal Fit Tips - compatible with most research grade pipettors
- ▶ Aerosol Barrier Tips - prevent aerosol and liquid contamination
- ▶ Multiple packaging formats - universal fit and aerosol barrier tips are available in bulk, racked and reloading formats
- ▶ Bevel delivery orifice - reduces sample hang-up and improves pipetting accuracy
- ▶ Graduation Marks - allow a visual confirmation of the pipettor aspiration volume
- ▶ ‘Clean-room’ Manufacturing Environment - products are certified DNase-/RNase-free and nonpyrogenic
- ▶ Consistent Product Quality - every manufacturing lot undergoes rigorous testing
- ▶ Sterile Products - Universal fit and aerosol barrier tips are available in standard as well as sterile packaging
- ▶ Maxymum Recovery® - allows maximum retrieval of precious samples



Standard bevel tip has larger contact area for reduced pipettor control.



Axygen bevel tip has a smaller contact area for more accurate dispensing.

Axygen Beveled Pipet Tips

The angle on Axygen beveled tips reduces the surface area of the tip with the receiving vessel. This angle combined with an ultra-thin orifice reduces the effect of liquid samples creeping up the side of the tip (capillary effect). By reducing this capillary effect, Axygen beveled tips dispense samples more accurately.



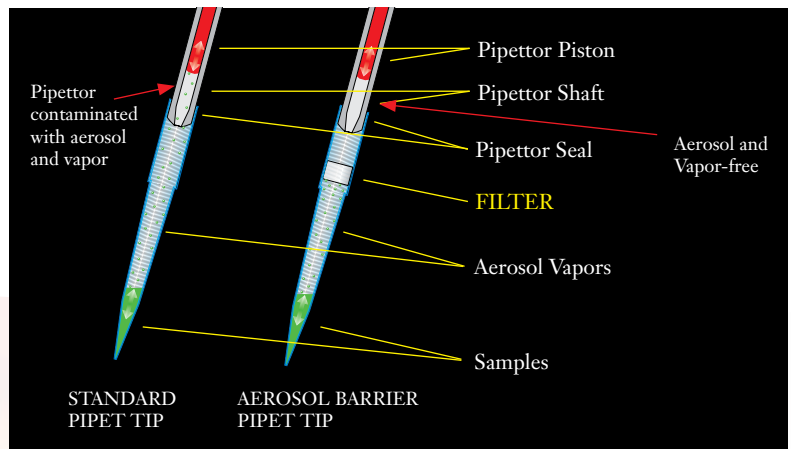
Tip Packaging Options

	Bulk Packaging	Pipet tips are available in bulk-packaged, re-sealable plastic bags - keeping them safe from contamination.
	Hinged Racks	Axygen tip racks in durable polypropylene provide excellent stability on the lab bench. They feature a hinged lid with a snap fastener.
	Stack Racks	Axygen inter-locking stack racks offer tip stability while saving valuable bench space.

Barrier Pipet Tips

Axygen aerosol barrier tips are ideal for molecular and microbiology applications in which carryover contamination can invalidate results and waste time and resources. The filter placement allows plenty of space between the sample and filter, at the maximum rated volume. In case of overpipetting, the sample can be easily recovered by dispensing.

Axygen filters are made of ultra high molecular weight polyethylene (UHMW) and contain no PCR inhibitors. All Axygen filter tips are metal-free and certified to be DNase-/RNase-free and nonpyrogenic. They are packaged in sealed-bottom racks with lids and are available in sterile packaging.



Aerosol barrier tips offer the ultimate in protection against contamination. Their use is particularly appropriate in mission critical applications such as PCR, DNA sequencing and other techniques involving the use of vaporous, radioactive, biohazardous or corrosive materials.

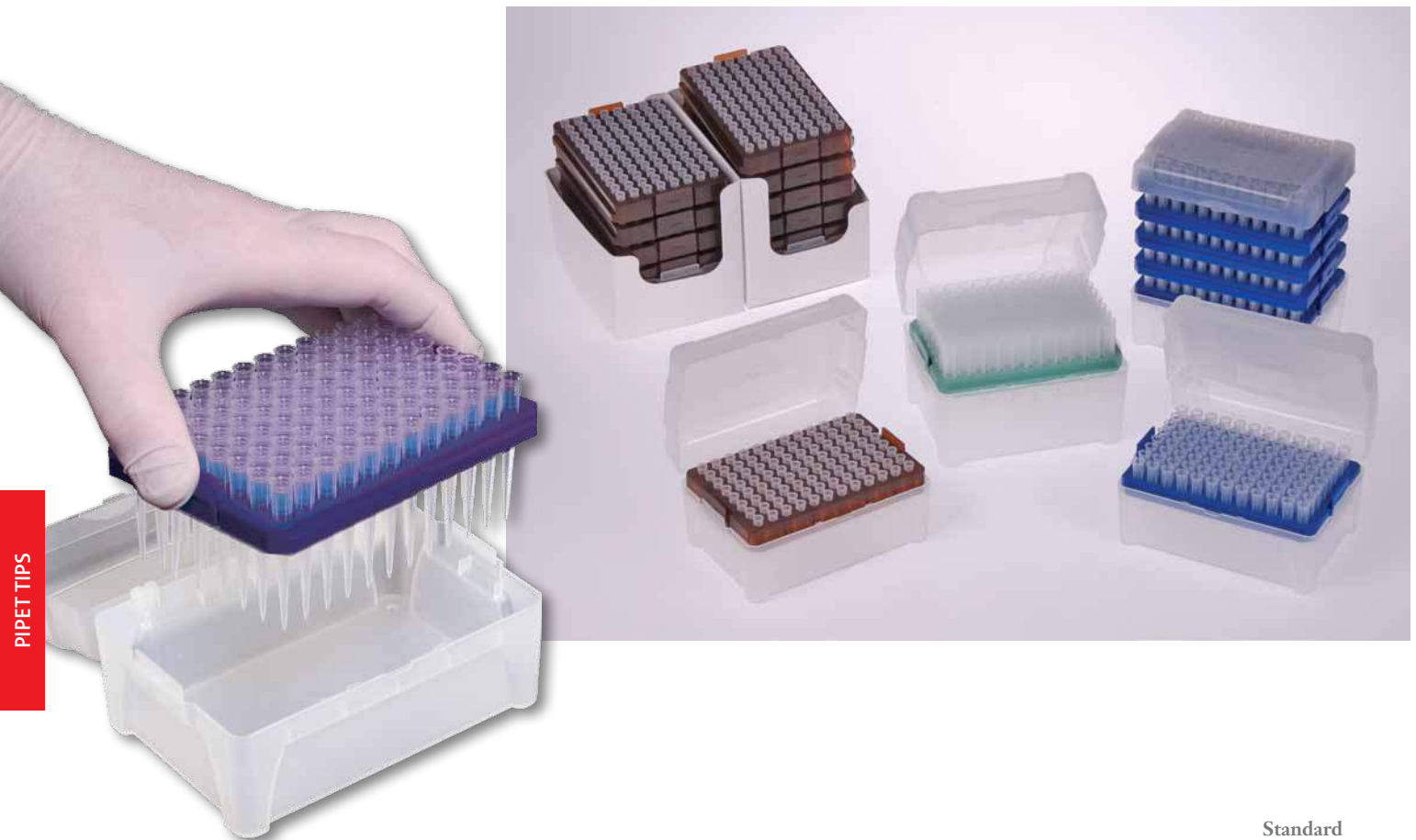


Axygen products are manufactured in a clean, controlled "state of the art" facility and certified DNase-/RNase-free and nonpyrogenic







Tip Refill System

The Axygen® tip refill system contains a durable refill rack that can be easily refilled by hand and is autoclavable. These translucent racks include a color-coded insert for easy tip identification.

- Graduated 200 µL tip, offers visual volume check
- Translucent rack offers tip visibility
- Tip insert ‘clicks’ into rack for added product security
- Color coded insert allows for easy tip identification
- Certified DNase-/RNase-free and nonpyrogenic



PIPET TIPS








Tip Refill System	Volume	Tip Rack	Packaging	Standard Cat. No.
P2/P10 Gilson-style	10 µL		Tip Refill System	RFL-300-C
			Quantity: 2 stacks of 5x 96 tips/pack, 5 packs/case	
Universal Tip, Graduated	200 µL		Tip Refill System	RFL-222-C
			Quantity: 2 stacks of 5x 96 tips/pack, 5 packs/case	
			Empty Racks/Lids	RFL-R*
			Quantity: 10 racks/pack, 5 packs/case	
Universal Tip, Graduated	1200 µL		Tip Refill System	RFL-1200-C
			Quantity: 8x 96 tips/pack, 6 packs/case	
			Empty Racks/Lids	RFL-R-1200*
			Quantity: 10 racks/pack, 3 packs/case	

* RFL-R is suitable for both the 10 µL and 200 µL refill inserts. RFL-R-1200 is suitable for 1200 µL refill inserts.

Microvolume Tips

Microvolume tips are available with Axygen® Maxymum Recovery® technology. Maxymum Recovery improves recovery of costly samples and offers greater precision and accuracy.














▶ See tip compatibility tables, pages 89-94

Microvolume Tips	Volume	Tip Rack	Packaging	Standard Cat. No.	MAXYUM RECOVERY Cat. No.
 <p>10 µL, Microvolume</p>	0.5 - 10 µL		Bulk Racked Racked, Sterile Stack Rack	T-300 T-300-R T-300-R-S T-300-STK	T-300-L T-300-L-R T-300-L-R-S T-300-L-STK
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case; Stack Racks = 96 tips/rack, 5 racks/stack, 10 stacks/case					
 <p>10 µL, Microvolume</p> <p>← Length 1.8" (4.5 cm) →</p> <p>Extended tip length allows easy access to narrow, deep wells</p>  <p>Close up of tip end</p>	0.5 - 20 µL		Bulk Racked Racked, Sterile	TXL-10 TXL-10-R TXL-10-R-S	TXL-10-L TXL-10-L-R TXL-10-L-R-S
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case; Stack Racks = 96 tips/rack, 5 racks/stack, 10 stacks/case					
 <p>20 µL, Ultra Micro</p>	0.5 - 20 µL		Bulk Racked Racked, Sterile	T-400 T-400-R T-400-R-S	T-400-L T-400-L-R T-400-L-R-S
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case; Stack Racks = 96 tips/rack, 5 racks/stack, 10 stacks/case					















Universal Fit Tips

Axygen® Universal fit tips are designed to fit a wide variety of single and multi-channel pipettors. They are compatible with most research grade pipettors. These polypropylene tips are certified to be DNase-/RNase-free and nonpyrogenic.

- ▶ Available in Maxymum Recovery®
- ▶ See tip compatibility tables, pages 89-94

Universal Fit Tips	Volume	Tip Rack	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
<p>200 µL, Beveled</p> 	1 - 200 µL		<p>Bulk Racked Racked, Sterile Stack Rack</p> <p>Bulk Racked Racked, Sterile Stack Rack</p>	<p>T-200-C T-200-C-R T-200-C-R-S T-200-C-STK</p> <p>T-200-Y T-200-Y-R T-200-Y-R-S T-200-Y-STK</p>	<p>T-200-C-L T-200-C-L-R T-200-C-L-R-S T-200-C-L-STK</p>
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case; Stack Racks = 96 tips/rack, 5 racks/stack, 10 stacks/case					
<p>200 µL, Non-Beveled, Fine Point</p> 	1 - 200 µL		<p>Bulk Racked Racked, Sterile</p>	<p>T-210-C T-210-C-R T-210-C-R-S</p>	
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case					
<p>100 µL, Eppendorf-compatible</p>  <p>Graduation marks at 10, 50, and 100 µL</p>	1 - 200 µL		<p>Bulk Racked Racked, Sterile</p>	<p>TE-204-Y TE-204-Y-R TE-204-Y-R-S</p>	<p>TE-204-Y-L TE-204-Y-L-R TE-204-Y-L-R-S</p>
Quantity: Bulk = 500 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case					
<p>200 µL, Beveled, Reference-compatible</p>  <p>Graduation marks at 10, 50, and 100 µL</p>	1 - 200 µL		<p>Bulk Racked Racked, Sterile Stack Rack</p> <p>Bulk Racked Racked, Sterile Stack Rack</p>	<p>TR-222-C TR-222-C-R TR-222-C-R-S TR-222-C-STK</p> <p>TR-222-Y TR-222-Y-R TR-222-Y-R-S TR-222-Y-STK</p>	<p>TR-222-C-L TR-222-C-L-R TR-222-C-L-R-S TR-222-C-L-STK</p>
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case; Stack Racks = 96 tips/rack, 5 racks/stack, 10 stacks/case					
<p>200 µL, Wide Bore</p>  <p>Orifice Size: 0.062" (1.52 mm)</p> <p>Wide bore tips are ideal for pipetting viscous materials, genomic DNA or delicate cell cultures.</p> 	1 - 200 µL		<p>Bulk Racked Racked, Sterile</p>	<p>T-205-WB-C T-205-WB-C-R T-205-WB-C-R-S</p>	<p>T-205-WB-C-L T-205-WB-C-L-R T-205-WB-C-L-R-S</p>
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case					
<p>250 µL, Beveled, Reference-compatible</p> 	1 - 250 µL		<p>Bulk Racked Racked, Sterile</p>	<p>TR-333-C TR-333-C-R TR-333-C-R-S</p>	<p>TR-333-C-L TR-333-C-L-R TR-333-C-L-R-S</p>
Quantity: Bulk = 1000 tips/pack, 20 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case					

PIPET TIPS

Universal Fit Tips	Volume	Tip Rack	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
300 µL, Fine point 	1 - 300 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	T-350-C T-350-C-R T-350-C-R-S	T-350-C-L T-350-C-L-R T-350-C-L-R-S
1000 µL, Beveled 	100 - 1000 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 1000 tips/pack, 5 packs/case; Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	T-1000-C T-1000-C-R T-1000-C-R-S	T-1000-C-L T-1000-C-L-R T-1000-C-L-R-S
1000 µL, Beveled 	100 - 1000 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 1000 tips/pack, 5 packs/case; Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	T-1000-B T-1000-B-R T-1000-B-R-S	
1000 µL, Wide Bore  Orifice Size = 0.065" (1.6 mm)	100 - 1000 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 1000 tips/pack, 5 packs/case; Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	T-1005-WB-C T-1005-WB-C-R T-1005-WB-C-R-S	T-1005-WB-C-L T-1005-WB-C-L-R T-1005-WB-C-L-R-S
1200 µL, Beveled 	100 - 1200 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 1000 tips/pack, 5 packs/case; Racked = 96 tips/rack, 12 racks/pack, 3 packs/case	T-1200-C T-1200-C-R T-1200-C-R-S	
1000 µL, Eppendorf®-compatible  Graduation marks at 110 µL and 500 µL	100 - 1000 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 500 tips/pack, 10 packs/case; Racked = 96 tips/rack, 12 racks/pack, 3 packs/case	TE-1004-B TE-1004-B-R TE-1004-B-R-S	TE-1004-B-L TE-1004-B-L-R TE-1004-B-L-R-S
1250 µL, Beveled, Matrix-style 	15 - 1250 µL		Bulk Racked Racked, Sterile Quantity: Bulk = 500 tips/pack, 10 packs/case; Racked = 96 tips/rack, 12 racks/pack, 3 packs/case	MTX-1250-C MTX-1250-C-R MTX-1250-C-R-S	

Autoclaving Protocol

Autoclave at 121°C (250°F) at 15 psi (1 atm.) for 15 minutes. Do not use a drying cycle. Remove from autoclaving once the temperature has reached at least 80°C.

Autoclaving Caution

Excessive exposure to autoclaving heat may cause warping or decreased structural integrity. Do not exceed autoclaving recommendations.





















NOT ALL PRODUCTS ARE AUTOCLAVABLE.

Autoclaving Guidelines

121°C	To ensure successful steam sterilization of your plastic labware, please adhere to the following guidelines:
15 minutes	Autoclave all plastic consumables at 121°C for 15 minutes, 15 psi/1 atm. Do not use a dry cycle as this may cause deformation or weakening of the plastic.
15 psi	Allow temperature within the autoclave to return to at least 80°C before removing the product.



















Aerosol Barrier Tips

- ▶ Technologically advanced filter material allows free passage of air while blocking aerosol contamination
- ▶ Filter membrane contains no leachable additives
- ▶ Maxymum Recovery[®] improves accuracy and ensures maximum sample recovery

Aerosol Barrier Tips	Volume	Tip Rack	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
10 µL, Microvolume 	0.5 - 10 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-300 TF-300-R-S	TF-300-L-R-S
10 µL, Microvolume, Extended 	0.5 - 10 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TXLF-10 TXLF-10-R-S	TXLF-10-L-R-S
10 µL, Ultra Micro 	0.5 - 10 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-400 TF-400-R-S	TF-400-L-R-S
20 µL, Ultra Micro 	0.5 - 20 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-420-R-S	TF-420-L-R-S
20 µL, Universal 	0.5 - 20 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-20 TF-20-R-S	TF-20-L-R-S
50 µL, Universal 	0.5 - 50 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-50 TF-50-R-S	TF-50-L-R-S
100 µL, Universal 	1 - 100 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-100 TF-100-R-S	TF-100-L-R-S
150 µL, Universal 	1 - 150 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-150 TF-150-R-S	TF-150-L-R-S
200 µL, Universal 	1 - 200 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-200 TF-200-R-S	TF-200-L-R-S
200 µL, Wide bore 	1 - 200 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-205-WB-R-S	TF-205-WB-L-R-S

Wide bore tips are ideal for pipetting viscous materials, genomic DNA or delicate cell cultures.



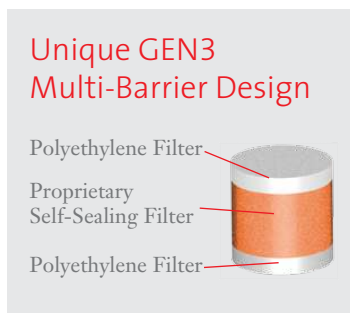
Aerosol Barrier Tips	Volume	Tip Rack	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
300 µL, Universal 	1 - 300 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 10 packs/case; Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TF-350 TF-350-R-S	TF-350-L-R-S
500 µL, Universal 	10 - 500 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 5 packs/case; Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	TF-500 TF-500-R-S	TF-500-L-R-S
1000 µL, Universal 	100 - 1000 µL		Bulk Racked, Sterile Quantity: Bulk = 1000 tips/pack, 5 packs/case; Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	TF-1000 TF-1000-R-S	TF-1000-L-R-S
1000 µL, Wide Bore 	100 - 1000 µL		Racked, Sterile Quantity: Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	TF-1005-WB-R-S	TF-1005-WB-L-R-S
1100 µL, Beveled 	100 - 1100 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 12 racks/pack, 3 packs/case	TF-1200-C-R-S	TF-1200-C-L-R-S
1250 µL, Matrix-style 	15 - 1250 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 12 racks/pack, 3 packs/case	MTXF-1250-C-R-S	MTXF-1250-C-L-R-S
10 µL, GentleFit Tip 	10 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TLF-10-R-S	
200 µL, GentleFit Tip 	200 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	TLF-200-R-S	
1000 µL, GentleFit Tip 	1000 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 8 racks/pack, 5 packs/case	TLF-1000-R-S	

GEN3™ Multi-Barrier Tips

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

Performance Comparison of Barrier 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 pipet tips seal on contact with liquids and prevent liquids or aerosols from passing through, eliminating cross contamination.



Liquid passes through conventional filter pipet tips causing cross contamination.

GEN3 Multi-Barrier Tips	Volume	Tip Rack	Packaging	MAXIMUM RECOVERY Cat. No.
10 µL, Multi-Barrier filter 	10 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	GEN3-10-L-R-S
20 µL, Multi-Barrier filter 	20 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	GEN3-20-L-R-S
200 µL, Multi-Barrier filter 	200 µL		Racked, Sterile Quantity: Racked = 96 tips/rack, 10 racks/pack, 5 packs/case	GEN3-200-L-R-S
1000 µL, Multi-Barrier filter 	1000 µL		Racked, Sterile Quantity: Racked = 100 tips/rack, 10 racks/pack, 5 packs/case	GEN3-1000-L-R-S



AxyPet-16 384-Format Tips

- ▶ Fit most research grade pipettors
- ▶ See tip compatibility tables, pages 89-94

AxyPet-16 384-Format Tips	Volume	Tip Rack	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
50 µL, Microvolume 	0.5 - 50 µL		Racked Racked, Sterile Quantity: Racked = 384 tips/rack, 10 racks/pack, 5 packs/case	T-384-R T-384-R-S	T-384-L-R T-384-L-R-S
30 µL, Microvolume, Filtered 	0.5 - 30 µL		Racked, Sterile Quantity: Racked = 384 tips/rack, 10 racks/pack, 5 packs/case	TF-384-30-R-S	TF-384-30-L-R-S
30 µL, Microvolume 	0.5 - 30 µL		Racked Racked, Sterile Quantity: Racked = 384 tips/rack, 10 racks/pack, 5 packs/case	T-1536-R T-1536-R-S	T-1536-L-R T-1536-L-R-S

Macrovolume Tips







- ▶ Fit most research grade pipettors

Macrovolume Tips	Volume	Packaging	Cat. No.
5 mL, Macrovolume 	1 - 5 mL	Bulk	T-5000-C
Graduation marks at 0.5 mL and 1 mL increments		Quantity: Bulk = 250 tips/pack, 10 packs/case	
10 mL, Macrovolume 	1 - 10 mL	Bulk	T-10ML-C
		Quantity: Bulk = 200 tips/pack, 10 packs/case	

Gel Loading

Axygen® Gel Loading Tips are designed for easy loading of samples on gels. The tips fit a wide variety of single and multi-channel pipettors. Tips are available in flat and round formats with outer diameter dimensions for specific gel thicknesses.





- 0.37 mm outer diameter tips are for use with 0.4 mm gels
- 0.17 mm outer diameter tips are for use with 0.2 mm gels
- Certified DNase-/RNase-free and nonpyrogenic

Gel Loading Tips	Volume	Tip Rack	Outer Diameter	Packaging	Cat. No.
10 µL, Gel Loading Tip, Flat 	10 µL		0.17 mm	Racked Quantity: Racked = 200 tips/rack, 2 racks/case	TGL-10FT-17-R
200 µL, Ultra Micro Gel Loading Tip, Flat 	200 µL		0.37 mm	Racked Racked, Sterile Quantity: Racked = 200 tips/rack, 2 racks/case	TGL-200FT-37-R TGL-200FT-37-R-S
200 µL, Ultra Micro Gel Loading Tip, Round 	200 µL		0.57 mm	Racked Racked, Sterile Quantity: Racked = 200 tips/rack, 2 racks/case	TGL-200RD-57-R TGL-200RD-57-R-S

Gel Cutting

Axygen® Gel Cutting Tips are designed to remove DNA/RNA bands from agarose gel.

- Certified DNase-/RNase-free and nonpyrogenic

Gel Cutting Tips	Tip Rack	Outer Dimensions	Packaging	Standard Cat. No.
Gel Cutting Tip 		1.1 mm x 4 mm	Bulk Racked Quantity: Bulk = 250 tips/pack, 10 packs/case; Racked = 48 tips/rack, 10 racks/pack, 5 packs/case	TGL-1140 TGL-1140-R
Gel Cutting Tip 		1.1 mm x 6.5 mm	Bulk Racked Quantity: Bulk = 250 tips/pack, 10 packs/case; Racked = 48 tips/rack, 10 racks/pack, 5 packs/case	TGL-1165 TGL-1165-R

AxyPet™ Single and Multi-channel Pipettors

AxyPet pipettors combine the highest levels of accuracy and precision with design innovations intended to make the pipetting experience more comfortable over prolonged use.

- ▶ Locking feature prevents accidental volume changes during pipetting procedures
- ▶ Thumb-friendly soft spring pipetting system reduces fatigue
- ▶ Unique side EZIject button option reduces thumb movement*
- ▶ Finger-hook to take the weight, for a more relaxed grip
- ▶ Large ergonomic pushbutton is easy on the thumb during contact



PIPET TIPS

Single Channel Pipettors

Volume Range	No. of Channels	Accuracy %	Precision %	Cat. No.	Description
0.1-2 µL	1	±12.0 - ±1.5	±6.0- ±0.7	AP-2	0.1-2 µL Single Channel Pipettor
0.5-10 µL	1	±4.0 - ±0.5	±2.8 - ±0.4	AP-10	0.5-10 µL Single Channel Pipettor
2-20 µL	1	±3.0 - ±0.8	±1.5 - ±0.3	AP-20	2-20 µL Single Channel Pipettor
5-50 µL	1	±2.5 - ±0.8	±2.0 - ±0.4	AP-50	5-50 µL Single Channel Pipettor
10-100 µL	1	±1.6 - ±0.8	±0.8 - ±0.2	AP-100	10-100 µL Single Channel Pipettor
20-200 µL	1	±1.2 - ±0.6	±0.6 - ±0.2	AP-200	20-200 µL Single Channel Pipettor
50-250 µL	1	±1.0 - ±0.6	±0.4 - ±0.3	AP-250	50-250 µL Single Channel Pipettor
100-1000 µL	1	±1.6 - ±0.6	±0.4 - ±0.15	AP-1000	100-1000 µL Single Channel Pipettor
1-5 mL	1	±0.6 - ±0.5	±0.25 - ±0.15	AP-5000	1-5 ml Single Channel Pipettor
1-10 mL	1	±2.5 - ±0.5	±0.6 - ±0.2	AP-10ML	1-10 mL Single Channel Pipettor

*Left handed EZIject button available by special order

Additional Multi-channel Pipettor Features

- ▶ Plunger and Ejector are ergonomically located
- ▶ Curved ejector bar allows tips to be ejected in steps, reducing the amount of force required for ejection
- ▶ Tip manifold rotates 360°
- ▶ Each channel of the pipettor has an individual, precision piston assembly to ensure accuracy and reproducibility from one pipetting series to the next
- ▶ Shafts withdraw when pressed against a row of tips
- ▶ Each shaft moves independently, minimizing jamming of tips
- ▶ Micrometer is continuously adjustable for selection of whole or fractional volumes



Multi-channel Pipettors





Volume Range	No. of Channels	Accuracy %	Precision %	Cat. No.	Description
0.5-10 µL	8	±8.0 - ±2.0	±6.0 - ±1.2	AP-8-10	0.5-10 µL 8-Channel, Digital Pipettor
5-50 µL	8	±4.0 - ±1.6	±2.5 - ±0.6	AP-8-50	5-50 µL 8-Channel, Digital Pipettor
20-200 µL	8	±3.0 - ±1.0	±1.5 - ±0.6	AP-8-200	20-200 µL 8-Channel, Digital Pipettor
50-300 µL	8	±1.6 - ±1.0	±1.5 - ±0.6	AP-8-300	50-300 µL 8-Channel, Digital Pipettor
1-10 µL	12	±8.0 - ±2.0	±6.0 - ±1.2	AP-12-10	0.5-10 µL 12-Channel, Digital Pipettor
5-50 µL	12	±4.0 - ±1.6	±2.5 - ±1.6	AP-12-50	5-50 µL 12-Channel, Digital Pipettor
20-200 µL	12	±3.0 - ±1.0	±1.5 - ±0.6	AP-12-200	20-200 µL 12-Channel, Digital Pipettor
50-300 µL	12	±1.6 - ±1.0	±1.5 - ±0.6	AP-12-300	50-300 µL 12-Channel, Digital Pipettor
0.2-2 µL	16	±12.0 - ±2.0	±6.0 - ±1.0	AP-16-2	0.2-2 µL Adjustable Volume 16 Channel AxyPet Pipettor
0.5-10 µL	16	±2.5 - ±1.0	±1.8 - ±0.5	AP-16	0.5-10 µL Adjustable Volume 16 Channel AxyPet Pipettor
5-50 µL	16	±2.5 - ±1.0	±1.8 - ±0.5	AP-16-50	5-50 µL Adjustable Volume 16 Channel AxyPet Pipettor

Eppendorf																					Pipettor Brand							
Reference					Research										Research Pro			Research Plus	Pipettor Make									
single/multi-channel					single channel					multi-channel					single channel	multi-channel	g/ch	Channels										
0.1-2.5 µL	0.1-10 µL	0.5-10 µL	2-20 µL 'UltraMicro'	2-20 µL	10-100 µL	20-200 µL	50-200 µL	100-1000 µL	0.1-2.5 µL	0.5-10 µL	2-20 µL	10-100 µL	20-200 µL	100-1000 µL	0.5-10 µL	5-100 µL	10-100 µL	50-100 µL	20-300 µL	30-300 µL	50-1200 µL	20-300 µL	50-1000 µL	0.5-10 µL	20-300 µL	100-1000 µL	Volume Range	
																												Volume/Axygen Tip
																												0.1-60 µL, T-384
																												0.1-30 µL, T-1536
																												0.1-10 µL, T-300
																												0.1-10 µL, TXL-10
																												0.1-20 µL, T-400
																												1-200 µL, T-200
																												1-200 µL, TE-204
																												1-200 µL, T-205-WB
																												1-200 µL, T-210
																												1-200 µL, TR-222
																												1-250 µL, TR-333
																												1-300 µL, T-350
																												100-1000 µL, T-1000
																												100-1000 µL, TE-1004
																												100-1000 µL, T-1005-WB
																												100-1200 µL, T-1200
																												15-1250 µL, MTX-1250
																												0.1-30 µL, TF-384-30
																												0.1-10 µL, TF-300
																												0.1-10 µL, TXLF-10
																												0.1-10 µL, TF-400
																												0.1-20 µL, TF-420
																												0.5-20 µL, TF-20
																												0.5-50 µL, TF-50
																												1-100 µL, TF-100
																												1-150 µL, TF-150
																												1-200 µL, TF-200
																												1-200 µL, TF-205-WB
																												1-300 µL, TF-350
																												10-500 µL, TF-500
																												100-1000 µL, TF-1000
																												100-1000 µL, TF-1005-WB
																												100-1100 µL, TF-1200
																												15-1250 µL, MTXF1250
																												1-10 µL, GEN3-10-L-R-S
																												1-20 µL, GEN3-20-L-R-S
																												20-200 µL, GEN3-200-L-R-S
																												100-1000 µL, GEN3-1000-L-R-S

	Socorex														VWR															Pipettor Brand	
	Calibra/Accura														VWR and VWR Signature															Pipettor Make	
	single channel							multi-channel							single channel							multi-channel								Channels	
	R1000, 100-1000 µL	0.1-2 µL	0.2-2 µL	0.5-10 µL	1-10 µL	2-20 µL	10-100 µL	20-200 µL	100-1000 µL	1-10 µL	5-50 µL	10-100 µL	20-200 µL	50-200 µL	0.1-2 µL	0.5-10 µL	2-20 µL	5-50 µL	10-100 µL	20-200 µL	50-250 µL	100-1000 µL	1-10 µL	5-50 µL	20-200 µL	50-300 µL	Cat. Page No.	Volume Range			
																													Volume/Axygen Tip		
																													71	0.1-60 µL, T-384	
																														71	0.1-30 µL, T-1536
		•	•	•	•				•						•	•													65	0.1-10 µL, T-300	
		•	•	•	•				•						•	•													65	0.1-10 µL, TXL-10	
																													65	0.1-20 µL, T-400	
						•	•	•			•	•	•	•			•	•	•	•									66	1-200 µL, T-200	
																													66	1-200 µL, TE-204	
						•	•	•			•	•	•	•			•	•	•	•									66	1-200 µL, T-205-WB	
						•	•	•			•	•	•	•			•	•	•	•									66	1-200 µL, T-210	
						•	•	•			•	•	•	•			•	•	•	•									66	1-200 µL, TR-222	
							•	•			•	•	•								•	•	•						66	1-250 µL, TR-333	
							•	•			•	•	•								•	•	•						67	1-300 µL, T-350	
•								•																					67	100-1000 µL, T-1000	
•								•																					67	100-1000 µL, TE-1004	
•								•																					67	100-1000 µL, T-1005-WB	
•								•																					67	100-1200 µL, T-1200	
																													67	15-1250 µL, MTX-1250	
																														71	0.1-30 µL, TF-384-30
		•	•	•	•				•						•	•														68	0.1-10 µL, TF-300
		•	•	•	•				•						•	•														68	0.1-10 µL, TXLF-10
																														68	0.1-10 µL, TF-400
																														68	0.1-20 µL, TF-420
						•																								68	0.5-20 µL, TF-20
																														68	0.5-50 µL, TF-50
							•																							68	1-100 µL, TF-100
																														68	1-150 µL, TF-150
								•				•	•																	68	1-200 µL, TF-200
								•				•	•																	68	1-200 µL, TF-205-WB
																														69	1-300 µL, TF-350
																														69	10-500 µL, TF-500
									•																					69	100-1000 µL, TF-1000
•									•																					69	100-1000 µL, TF-1005-WB
•									•																					69	100-1100 µL, TF-1200
																														69	15-1250 µL, MTXF1250
																														70	1-10 µL, GEN3-10-L-R-S
							•																							70	1-20 µL, GEN3-20-L-R-S
																														70	20-200 µL, GEN3-200-L-R-S
																														70	100-1000 µL, GEN3-1000-L-R-S

Reagent Reservoirs

Axygen® disposable reservoirs are designed to accommodate all multichannel pipettors. Four corners and a sharp V-bottom shape ensure maximum sample retrieval.

Disposable Reservoirs	Maximum Volume	Maximum Volume/Well	Color	Standard Cat. No.	Description
	25 mL	25 mL	White White White	RES-2CV-25 RES-2CV-25-S RES-2CV-25-SI	25 mL reservoir, divided 25 mL reservoir, divided, sterile 25 mL reservoir, divided, individually wrapped, sterile Quantity: 100 reservoirs/case
	25 mL	25 mL	White White White	RES-V-25 RES-V-25-S RES-V-25-SI	25 mL reservoir 25 mL reservoir, sterile 25 mL reservoir, individually wrapped, sterile Quantity: 100 reservoirs/case
	50 mL	50 mL	White White White	RES-V-50 RES-V-50-S RES-V-50-SI	50 mL reservoir 50 mL reservoir, sterile 50 mL reservoir, individually wrapped, sterile Quantity: 100 reservoirs/case
	100 mL	100 mL	White White White	RES-V-100 RES-V-100-S RES-V-100-SI	100 mL reservoir 100 mL reservoir, sterile 100 mL reservoir, individually wrapped, sterile Quantity: 100 reservoirs/case





Microtubes

Overview	98
Snaplock Microcentrifuge Tubes	100
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Caps	104
Centrifuge and Transport Tubes	105
AxyRacks	106

MICROTUBES

Axygen®'s microcentrifuge tubes are produced from Class VI "medical grade" polypropylene.

- ▶ Maxymum Recovery™ and standard snaplock tubes - 0.5, 1.5, 1.7 and 2.0 mL
- ▶ Maxymum Recovery and standard screw cap tubes - 0.5, 1.5 and 2.0 mL conical and free-standing
- ▶ Durable plastic tube racks - 50, 80 and 81 position
- ▶ Aluminum tube racks - 48 position for screw cap tubes

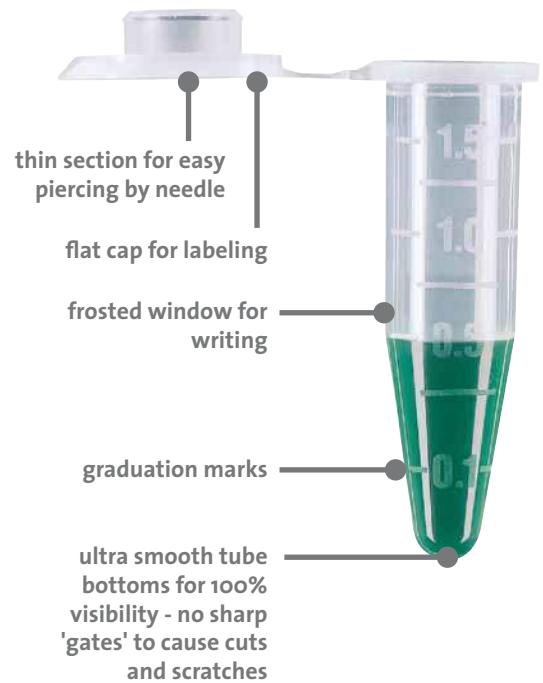


MaxyClear SnapLock Microcentrifuge Tubes

Axygen® 1.5 mL, 1.7 mL and 2.0 mL SnapLock microcentrifuge tubes are engineered to close with a snap and stay closed during centrifugation up to 14,000 RCF. The 1.7 mL MaxyClear tubes are manufactured of a co-polymer material which offers exceptional strength and chemical resistance. All Axygen SnapLock microcentrifuge tubes have frosted cap surfaces for labeling, frosted panels on the side for writing, a 0.28 mm piercing port in the center of the cap. Most tubes are autoclavable.

Features

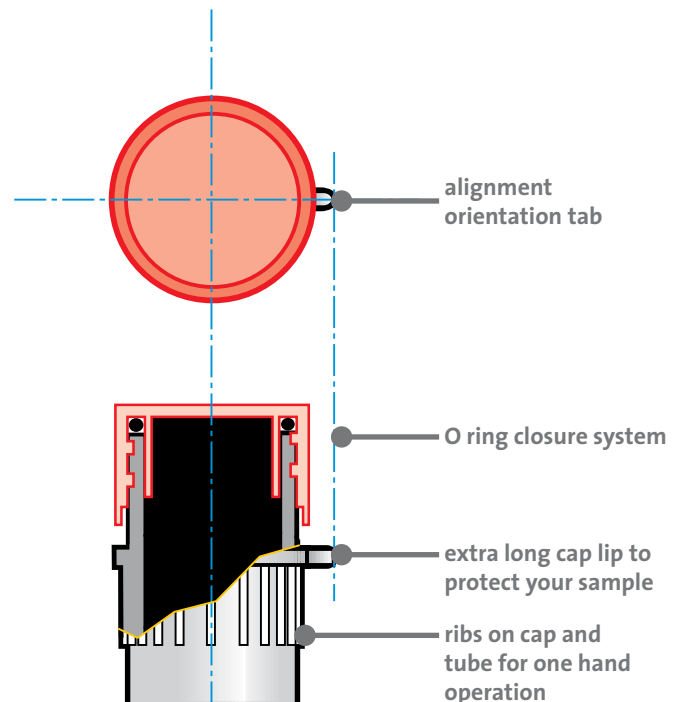
- ▶ MaxyClear for the ultimate in sample visibility found in all of Axygen's SnapLock tubes
- ▶ A wide range of colored tubes for easy sample identification
- ▶ SnapLock tubes are guaranteed to stay closed even during boiling or autoclaving
- ▶ Will withstand up to 14,000 RCF
- ▶ SnapLock cap assures efficient seal yet is still easy to flip open
- ▶ Thin membrane in cap center allows easy access to sample by syringe needle
- ▶ Certified DNase-/RNase-free and nonpyrogenic
- ▶ Maxymum Recovery™ available in most styles for minimal sample retention



MaxyClear Screw Cap Microcentrifuge Tubes

Axygen screw cap microcentrifuge tubes serve a broad range of laboratory needs including collection, processing, centrifugation, long-term storage and packaging/shipping of restriction enzymes and other reagents. Color-coded caps provide a syringe port which is easily pierced for radioisotope labeling and fraction collecting. The threaded O ring design ensures a uniform closure allowing centrifugation up to 14,000 RCF. Ribs are designed to fit racks and facilitate single-handed opening and closing when used with our aluminum AxyRack. See page 149 for information on RCF or g-force.

The closure on Axygen screw caps feature an O ring that is formulated and manufactured from a specially selected material that is resistant to many commonly used laboratory chemicals. The Alignment Orientation Tab allows the microcentrifuge tube to be aligned with the centrifuge rotor for multiple applications, including desalting. This ensures that the microcentrifuge tube can be re-spun without disturbing the partially pelletized sediment.




Axygen products are manufactured in a clean, controlled "state of the art" facility and certified DNase-/RNase-free and nonpyrogenic

SnapLock Microcentrifuge Tubes - MaxyClear

Axygen® MaxyClear microtubes are available in a variety of colors. Maxymum Recovery® and sterile options are also available. SnapLock microtubes have frosted cap surfaces and frosted side panels, ideal for labeling. Each cap features a piercing port in the center of the cap. Microtubes with no caps are available for some sizes.

- ▶ Co-polymer tubes offer exceptional strength and chemical resistance
- ▶ Homopolymer tubes are more resistant to autoclaving
- ▶ 0.6 mL, 1.5 mL, and 2.0 mL microtubes are certified to be boil proof

Snaplock Microtubes	Volume	Material	Color	Packaging	Standard Cat. No.	MAXIMUM RECOVERY Cat. No.
	0.6 mL	Homopolymer	MaxyClear	Bulk	MCT-060-C	MCT-060-L-C*
		Homopolymer	MaxyClear	Bulk, Sterile	MCT-060-C-S [†]	
		Homopolymer	Assorted	Bulk	MCT-060-A	
		Homopolymer	Blue	Bulk	MCT-060-B	
		Homopolymer	Green	Bulk	MCT-060-G	
		Homopolymer	Orange	Bulk	MCT-060-O	
		Homopolymer	Red	Bulk	MCT-060-R	
		Homopolymer	Violet	Bulk	MCT-060-V	
		Homopolymer	Amber	Bulk	MCT-060-X	
		Homopolymer	Yellow	Bulk	MCT-060-Y	
Quantity: 1000 tubes/pack, 10 packs/case; [†] Sterile = 500 tubes/pack, 10 packs/case; *Maxymum Recovery = 500 tubes/pack, 10 packs/case Maximum G-force: 14,000 RCF						
	1.5 mL	Homopolymer	MaxyClear	Bulk	MCT-150-C	MCT-150-L-C*
		Homopolymer	MaxyClear	Bulk, Sterile	MCT-150-C-S [†]	
		Homopolymer	MaxyClear	Bulk, No Cap	MCT-150-NC	
		Homopolymer	Assorted	Bulk	MCT-150-A	
		Homopolymer	Blue	Bulk	MCT-150-B	
		Homopolymer	Green	Bulk	MCT-150-G	
		Homopolymer	Orange	Bulk	MCT-150-O	
		Homopolymer	Red	Bulk	MCT-150-R	
		Homopolymer	Violet	Bulk	MCT-150-V	
		Homopolymer	Amber	Bulk	MCT-150-X	
Homopolymer	Yellow	Bulk	MCT-150-Y			
Quantity: 500 tubes/pack, 10 packs/case; [†] Sterile = 500 tubes/pack, 10 packs/case; *Maxymum Recovery = 250 tubes/pack, 10 packs/case Maximum G-force: 14,000 RCF						
	1.7 mL	Co-polymer	MaxyClear	Bulk	MCT-175-C	MCT-175-L-C*
		Co-polymer	MaxyClear	Bulk, Sterile	MCT-175-C-S [†]	
		Co-polymer	Assorted	Bulk	MCT-175-A	
		Co-polymer	Blue	Bulk	MCT-175-B	
		Co-polymer	Green	Bulk	MCT-175-G	
		Co-polymer	Orange	Bulk	MCT-175-O	
		Co-polymer	Red	Bulk	MCT-175-R	
		Co-polymer	Violet	Bulk	MCT-175-V	
		Co-polymer	Amber	Bulk	MCT-175-X	
		Co-polymer	Yellow	Bulk	MCT-175-Y	
Quantity: 500 tubes/pack, 10 packs/case; [†] Sterile = 500 tubes/pack, 10 packs/case; *Maxymum Recovery = 250 tubes/pack, 10 packs/case Maximum G-force: 14,000 RCF						
	2.0 mL	Homopolymer	MaxyClear	Bulk	MCT-200-C	MCT-200-L-C*
		Homopolymer	MaxyClear	Bulk, Sterile	MCT-200-C-S [†]	
		Homopolymer	MaxyClear	Bulk, No Cap	MCT-200-NC	
		Homopolymer	Assorted	Bulk	MCT-200-A	
		Homopolymer	Blue	Bulk	MCT-200-B	
		Homopolymer	Green	Bulk	MCT-200-G	
		Homopolymer	Orange	Bulk	MCT-200-O	
		Homopolymer	Red	Bulk	MCT-200-R	
		Homopolymer	Violet	Bulk	MCT-200-V	
		Homopolymer	Amber	Bulk	MCT-200-X	
Homopolymer	Yellow	Bulk	MCT-200-Y			
Quantity: 500 tubes/pack, 10 packs/case; [†] Sterile = 500 tubes/pack, 10 packs/case; *Maxymum Recovery = 250 tubes/pack, 10 packs/case Maximum G-force: 14,000 RCF						

5 mL Snaplock Tube

- ▶ Graduated at 0.5 mL increments
- ▶ Available in clear and amber
- ▶ Frosted flat cap

Snaplock Macrotubes	Volume	Material	Color	Packaging	Standard Cat. No.
5.0 mL, MaxyClear	5.0 mL	Homopolymer Homopolymer	Clear Amber	Bulk Bulk	MCT-500-C MCT-500-X

Quantity: 250 tubes/pack, 5 packs/case



Tissue Grinder

- ▶ Durable and inert polypropylene construction
- ▶ Designed to fit 1.5 mL and 2.0 mL centrifuge tubes
- ▶ Individually wrapped and sterilized

Type	Volume	Material	Color	Packaging	Standard Cat. No.
Tissue Grinder	1.5 and 2.0 mL	Pestle, sterile	Blue	Individually Wrapped	PES-15-B-SI

Quantity: Individually Wrapped = 100 pestles/pack, 4 packs/case



Autoclaving Protocol

Autoclave at 121°C (250°F) at 15 psi (1 atm.) for 15 minutes. Do not use a drying cycle. Remove from autoclaving once the temperature has reached at least 80°C.

Autoclaving Caution

Excessive exposure to autoclaving heat may cause warping or decreased structural integrity. Do not exceed autoclaving recommendations.

NOT ALL PRODUCTS ARE AUTOCLAVABLE.

Microtube Packaging



Bulk Packaging

Microtubes are shipped in resealable plastic bags and are packed in individual boxes, keeping them free from contaminants and easy to store.

Autoclaving Guidelines

121°C

To ensure successful steam sterilization of your plastic labware, please adhere to the following guidelines:

15 minutes

Autoclave all plastic consumables at 121°C for 15 minutes, 15 psi/1 atm.





Do not use a dry cycle as this may cause deformation or weakening of the plastic.


15 psi

Allow temperature within the autoclave to return to at least 80°C before removing the product.

Screw Cap Tubes


Axygen® screw cap tubes feature a cap that provides a tight secure seal. Screw cap tubes are available in a variety of colors with a conical or self-standing bottom. Sterile options are also available.

Type	Volume	Style	Color	Description	Standard Cat. No.		
	0.5 mL, Conical	Conical	Clear	Screw Cap Tubes with Caps	SCT-45-C		
		Conical	Clear	Screw Cap Tubes with Caps	SCT-050-C		
				Assorted*	Screw Cap Tubes with Caps	SCT-050-A	
				Grey	Screw Cap Tubes with Caps	SCT-050-GR	
				White	Screw Cap Tubes with Caps	SCT-050-W	
				Pink	Screw Cap Tubes with Caps	SCT-050-P	
				Red	Screw Cap Tubes with Caps	SCT-050-R	
				Orange	Screw Cap Tubes with Caps	SCT-050-O	
				Yellow	Screw Cap Tubes with Caps	SCT-050-Y	
				Green	Screw Cap Tubes with Caps	SCT-050-G	
				Blue	Screw Cap Tubes with Caps	SCT-050-B	
				Violet	Screw Cap Tubes with Caps	SCT-050-V	
				Brown	Screw Cap Tubes with Caps	SCT-050-BR	
	Quantity: 500 tubes/pack, 8 packs/case; *Assorted = 50 tubes/bag, 10 bags/pack, 8 packs/case						
Maximum G-force: 20,000 RCF							
	0.5 mL, Self Standing	Self Standing	Clear	Screw Cap Tubes with Caps	SCT-050-SS-C		
			Assorted*	Screw Cap Tubes with Caps	SCT-050-SS-A		
	Grey		Screw Cap Tubes with Caps	SCT-050-SS-GR			
	White		Screw Cap Tubes with Caps	SCT-050-SS-W			
	Pink		Screw Cap Tubes with Caps	SCT-050-SS-P			
	Red		Screw Cap Tubes with Caps	SCT-050-SS-R			
	Orange		Screw Cap Tubes with Caps	SCT-050-SS-O			
	Yellow		Screw Cap Tubes with Caps	SCT-050-SS-Y			
	Green		Screw Cap Tubes with Caps	SCT-050-SS-G			
	Blue		Screw Cap Tubes with Caps	SCT-050-SS-B			
	Violet		Screw Cap Tubes with Caps	SCT-050-SS-V			
	Brown		Screw Cap Tubes with Caps	SCT-050-SS-BR			
	Quantity: 500 tubes/pack, 8 packs/case; *Assorted = 50 tubes/bag, 10 bags/pack, 8 packs/case						
	Maximum G-force: 20,000 RCF						
	1.5 mL, Conical	Conical	Clear	Screw Cap Tubes with Caps	SCT-150-C		
			Assorted*	Screw Cap Tubes with Caps	SCT-150-A		
	Grey		Screw Cap Tubes with Caps	SCT-150-GR			
	White		Screw Cap Tubes with Caps	SCT-150-W			
	Pink		Screw Cap Tubes with Caps	SCT-150-P			
	Red		Screw Cap Tubes with Caps	SCT-150-R			
	Orange		Screw Cap Tubes with Caps	SCT-150-O			
	Yellow		Screw Cap Tubes with Caps	SCT-150-Y			
	Green		Screw Cap Tubes with Caps	SCT-150-G			
	Blue		Screw Cap Tubes with Caps	SCT-150-B			
	Violet		Screw Cap Tubes with Caps	SCT-150-V			
	Brown		Screw Cap Tubes with Caps	SCT-150-BR			
	Quantity: 500 tubes/pack, 8 packs/case; *Assorted = 50 tubes/bag, 10 bags/pack, 8 packs/case						
	Maximum G-force: 20,000 RCF						
	1.5 mL, Self Standing	Self Standing	Clear	Screw Cap Tubes with Caps	SCT-150-SS-C		
			Assorted*	Screw Cap Tubes with Caps	SCT-150-SS-A		
	Grey		Screw Cap Tubes with Caps	SCT-150-SS-GR			
	White		Screw Cap Tubes with Caps	SCT-150-SS-W			
	Pink		Screw Cap Tubes with Caps	SCT-150-SS-P			
	Red		Screw Cap Tubes with Caps	SCT-150-SS-R			
	Orange		Screw Cap Tubes with Caps	SCT-150-SS-O			
	Yellow		Screw Cap Tubes with Caps	SCT-150-SS-Y			
	Green		Screw Cap Tubes with Caps	SCT-150-SS-G			
	Blue		Screw Cap Tubes with Caps	SCT-150-SS-B			
	Violet		Screw Cap Tubes with Caps	SCT-150-SS-V			
	Brown		Screw Cap Tubes with Caps	SCT-150-SS-BR			
	Quantity: 500 tubes/pack, 8 packs/case; *Assorted = 50 tubes/bag, 10 bags/pack, 8 packs/case						
	Maximum G-force: 20,000 RCF						

Type	Volume	Style	Color	Description	Standard Cat. No.
2.0 mL, Conical 	2.2 mL	Conical	Clear	Screw Cap Tubes with Caps	SCT-200-C
			Assorted*	Screw Cap Tubes with Caps	SCT-200-A
			Grey	Screw Cap Tubes with Caps	SCT-200-GR
			White	Screw Cap Tubes with Caps	SCT-200-W
			Pink	Screw Cap Tubes with Caps	SCT-200-P
			Red	Screw Cap Tubes with Caps	SCT-200-R
			Orange	Screw Cap Tubes with Caps	SCT-200-O
			Yellow	Screw Cap Tubes with Caps	SCT-200-Y
			Green	Screw Cap Tubes with Caps	SCT-200-G
			Blue	Screw Cap Tubes with Caps	SCT-200-B
			Violet	Screw Cap Tubes with Caps	SCT-200-V
			Brown	Screw Cap Tubes with Caps	SCT-200-BR


Quantity: 500 tubes/pack, 8 packs/case; *Assorted = 50 tubes/bag, 10 bags/pack, 8 packs/case

Maximum G-force: 20,000 RCF

Type	Volume	Style	Color	Description	Standard Cat. No.
2.0 mL, Self Standing 	2.2 mL	Self Standing	Clear	Screw Cap Tubes with Caps	SCT-200-SS-C
			Assorted*	Screw Cap Tubes with Caps	SCT-200-SS-A
			Grey	Screw Cap Tubes with Caps	SCT-200-SS-GR
			White	Screw Cap Tubes with Caps	SCT-200-SS-W
			Pink	Screw Cap Tubes with Caps	SCT-200-SS-P
			Red	Screw Cap Tubes with Caps	SCT-200-SS-R
			Orange	Screw Cap Tubes with Caps	SCT-200-SS-O
			Yellow	Screw Cap Tubes with Caps	SCT-200-SS-Y
			Green	Screw Cap Tubes with Caps	SCT-200-SS-G
			Blue	Screw Cap Tubes with Caps	SCT-200-SS-B
			Violet	Screw Cap Tubes with Caps	SCT-200-SS-V
			Brown	Screw Cap Tubes with Caps	SCT-200-SS-BR

Quantity: 500 tubes/pack, 8 packs/case; *Assorted = 50 tubes/bag, 10 bags/pack, 8 packs/case


Maximum G-force: 20,000 RCF

Type	Volume	Style	Color	Description	Standard Cat. No.
Sterile 	1.3 mL	Conical, Sterile	Clear	Screw Cap Tubes with Caps	SCT-45-C-S*
	1.4 mL	Conical, Sterile	Clear	Screw Cap Tubes with Caps	SCT-050-C-S*
	1.4 mL	Self Standing, Sterile	Clear	Screw Cap Tubes with Caps	SCT-050-SS-C-S*
	1.9 mL	Conical, Sterile	Clear	Screw Cap Tubes with Caps	SCT-150-C-S*
	1.9 mL	Self Standing, Sterile	Clear	Screw Cap Tubes with Caps	SCT-150-SS-C-S*
	2.2 mL	Conical, Sterile	Clear	Screw Cap Tubes with Caps	SCT-200-C-S*
	2.2 mL	Self Standing, Sterile	Clear	Screw Cap Tubes with Caps	SCT-200-SS-C-S*

*All sterile screw cap tubes are packaged with non-looped caps attached which include 'O'-rings (Cat. No. SCO-C)

Quantity: 500 tubes/pack, 8 packs/case

Maximum G-force: 20,000 RCF

Type	Volume	Style	Color	Description	Standard Cat. No.
Tubes Only 	1.3 mL	Conical	Clear	Screw Cap Tubes	ST-45
	1.3 mL	Self Standing	Clear	Screw Cap Tubes	ST-45-SS
	1.4 mL	Conical	Clear	Screw Cap Tubes	ST-50
	1.4 mL	Self Standing	Clear	Screw Cap Tubes	ST-50-SS
	1.9 mL	Conical	Clear	Screw Cap Tubes	ST-150
	1.9 mL	Self Standing	Clear	Screw Cap Tubes	ST-150-SS
	2.2 mL	Conical	Clear	Screw Cap Tubes	ST-200
	2.2 mL	Self Standing	Clear	Screw Cap Tubes	ST-200-SS
	1.4 mL	Conical	Amber	Screw Cap Tubes	ST-50-X
	1.4 mL	Self Standing	Amber	Screw Cap Tubes	ST-50-SS-X
	1.9 mL	Conical	Amber	Screw Cap Tubes	ST-150-X
	1.9 mL	Self Standing	Amber	Screw Cap Tubes	ST-150-SS-X
	2.2 mL	Conical	Amber	Screw Cap Tubes	ST-200-X
	2.2 mL	Self Standing	Amber	Screw Cap Tubes	ST-200-SS-X

Quantity: 500 tubes/pack, 8 packs/case

Maximum G-force: 20,000 RCF

Screw Cap Tubes

Axygen® screw cap tubes feature a cap that provides a tight secure seal. Screw cap tubes are available in a variety of colors with a conical or self-standing bottom. Sterile options are also available.

Type	Color	Description	Cat. No.	
Caps, With O-ring	Clear	Non-Looped Screw Caps with O-ring	SCO-C	
	Assorted*	Non-Looped Screw Caps with O-ring	SCO-A	
	Grey	Non-Looped Screw Caps with O-ring	SCO-GR	
	White	Non-Looped Screw Caps with O-ring	SCO-W	
	Pink	Non-Looped Screw Caps with O-ring	SCO-P	
	Red	Non-Looped Screw Caps with O-ring	SCO-R	
	Orange	Non-Looped Screw Caps with O-ring	SCO-O	
	Yellow	Non-Looped Screw Caps with O-ring	SCO-Y	
	Green	Non-Looped Screw Caps with O-ring	SCO-G	
	Blue	Non-Looped Screw Caps with O-ring	SCO-B	
	Violet	Non-Looped Screw Caps with O-ring	SCO-V	
	Brown	Non-Looped Screw Caps with O-ring	SCO-BR	
	Quantity: 500 caps/pack, 8 packs/case; *Assorted = 50 caps/bag, 10 bags/pack, 8 packs/case			
	Looped Caps, With O-ring	Clear	Looped Screw Caps with O-ring	SCO-LP-C
		Assorted*	Looped Screw Caps with O-ring	SCO-LP-A
		Grey	Looped Screw Caps with O-ring	SCO-LP-GR
		White	Looped Screw Caps with O-ring	SCO-LP-W
Pink		Looped Screw Caps with O-ring	SCO-LP-P	
Red		Looped Screw Caps with O-ring	SCO-LP-R	
Orange		Looped Screw Caps with O-ring	SCO-LP-O	
Yellow		Looped Screw Caps with O-ring	SCO-LP-Y	
Green		Looped Screw Caps with O-ring	SCO-LP-G	
Blue		Looped Screw Caps with O-ring	SCO-LP-B	
Violet		Looped Screw Caps with O-ring	SCO-LP-V	
Brown		Looped Screw Caps with O-ring	SCO-LP-BR	
Quantity: 500 caps/pack, 8 packs/case; *Assorted = 50 caps/bag, 10 bags/pack, 8 packs/case				

AxyCaps

Uniquely molded, pliable cap designed to fit standard 10 mm, 13 mm, and 16 mm glass and plastic test tubes. The AxyCap will seal either over the rim on smaller tubes or into the tube on 16 mm tubes.

Type	Color	Description	Cat. No.	
AxyCap	Clear	AxyCap, 10-16 mm	AC-PE-C	
	Black	AxyCap, 10-16 mm	AC-PE-BK	
	Blue	AxyCap, 10-16 mm	AC-PE-B	
	Grey	AxyCap, 10-16 mm	AC-PE-GR	
	Green	AxyCap, 10-16 mm	AC-PE-G	
	Lavender	AxyCap, 10-16 mm	AC-PE-L	
	Red	AxyCap, 10-16 mm	AC-PE-R	
	Yellow	AxyCap, 10-16 mm	AC-PE-Y	
	Quantity: 1000/pack, 10 packs/case			

Centrifuge Tubes

- Rated to 12,000xg
- Printed graduations and writing area for sample identification
- Caps can be closed with one hand
- Sterile options are also available



Centrifuge Tubes	Volume	Style	Color	Description	Cat. No.
	15 mL	Conical	Clear	Centrifuge Tubes with Screw Caps Quantity: 50 tubes and caps/pack, 10 packs/case	SCT-15ML-500
	15 mL	Conical, Sterile	Clear	Centrifuge Tubes Quantity: 25 tubes/pack, 20 packs/case	SCT-15ML-R-S
	15 mL	Conical, Sterile	Clear	Centrifuge Tubes Quantity: 25 tubes/pack, 20 packs/case	SCT-15ML-25-S
	50 mL	Conical	Clear	Centrifuge Tubes with Screw Caps Quantity: 50 tubes and caps/pack, 10 packs/case	SCT-50ML-500
	50 mL	Conical, Sterile	Clear	Centrifuge Tubes Quantity: 25 tubes/pack, 20 packs/case	SCT-50ML-R-S
	50 mL	Conical, Sterile	Clear	Centrifuge Tubes Quantity: 25 tubes/pack, 20 packs/case	SCT-50ML-25-S
	50 mL	Self Standing with Conical Bottom	Clear	Centrifuge Tubes with Screw Caps Quantity: 50 tubes and caps/pack, 10 packs/case	SCT-50-SS-500
	50 mL	Self Standing with Conical Bottom	Clear	Centrifuge Tubes Quantity: 25 tubes/pack, 20 packs/case	SCT-50-SS-25
	50 mL	Self Standing with Conical Bottom, Sterile	Clear	Centrifuge Tubes Quantity: 25 tubes/pack, 20 packs/case	SCT-50-SS-25-S

Transport Tubes

- Graduation marks at 1.0 mL intervals
- Large, frosted writing area for sample identification
- Secure fit between tube and cap provides a leak resistant seal

Transport Tubes	Volume	Style	Color	Description	Cat. No.
	10 mL	Transport Tube Quantity: 250 tubes/pack, 8 packs/case	Clear	Transport Tubes	ST-10ML
	10 mL	Transport Tube with Cap Quantity: 250 tubes and caps/pack, 4 packs/case	Clear	Transport Tubes	SCT-10ML
	10 mL	Transport Tube with Cap, Sterile Quantity: 25 tubes and caps/pack, 20 packs/case Maximum G-force: 20,000 RCF	Clear	Transport Tubes	SCT-10ML-S
	5 mL	Transport Tube Quantity: 500 tubes/bag, 4 bags/case	Clear	Transport Tubes	ST-5ML
	5 mL	Transport Tube with Cap Quantity: 500 tubes/bag, 2 bags/case	Clear	Transport Tubes	SCT-5ML
	5 mL	Transport Tube with Cap, Sterile Quantity: 25 tubes/pack, 20 packs/case Maximum G-force: 20,000 RCF	Clear	Transport Tubes	SCT-5ML-S
Transport Tube Screw Cap		Screw Cap for 5 mL and 10 mL Transport Tubes Quantity: 1000 tubes/bag, 2 bags/case			SC-B-510



AxyRacks

1.5 mL and 2.0 mL microcentrifuge tube and screw cap tube racks

Type		Color	Description	Standard Cat. No.	
80-Well Rack		Assorted Fluorescent Blue Fluorescent Green Fluorescent Orange Fluorescent Red Fluorescent Pink Fluorescent Yellow Fluorescent	<ul style="list-style-type: none"> • Holds eighty 1.5 or 2.0 mL microcentrifuge and screw cap tubes • Polypropylene; resistant to most lab chemicals • Conical bottom wells allow superior stability for conical tubes • Numbered wells and frosted side writing panel for sample identification 	80-well rack 80-well rack 80-well rack 80-well rack 80-well rack 80-well rack 80-well rack	R-80-AF R-80-BF R-80-GF R-80-OF R-80-RF R-80-PF R-80-YF
				Quantity: 25 racks/case	
50-Well Rack		Assorted	<ul style="list-style-type: none"> • Holds fifty 0.5, 1.5, 2.0 mL microcentrifuge and screw cap tubes • Polycarbonate; resistant to most lab chemicals and solvents • Ideal for cryogenic storage to -80°C and below • Alpha-numeric grid for easy sample identification 	50-well rack	R-50-A
				Quantity: 10 racks/pack, 10 packs/case	
4-Sided Tube Rack		Assorted	<ul style="list-style-type: none"> • Assorted pack of pink, orange, yellow, blue and green racks • Racks can be positioned on 4 different sides and interlocked to help manage tubes in your lab • Holds up to 4 x 50 mL, 16 x 15 mL, 32 x 0.5 mL, 1.5 mL or 2.0 mL tubes 	80-well, 4-sided tube rack	R-480-A
				Quantity: 5 racks/pack, 4 packs/case	
48-Place Aluminum Rack		Metallic	<ul style="list-style-type: none"> • Holds 48 screw cap tubes of all sizes • Long lasting aluminum construction • Unique ribbed port design allows one hand operation • Non-skid benchtop pads for a firm platform • Center support for added strength and stability 	Anodized aluminum rack	RA-48
				Quantity: 4 racks/pack, 4 packs/case	



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GENOMICS SAMPLE PREP SOLUTIONS

Axygen® AxyPrep™ Kits have been adopted by many life science research institutes worldwide. Our bioscience products continue to generate satisfaction and compliments from our customers for their excellent quality and performance. The AxyPrep kits include a full line of plasmid/RNA/genomic purification, viral nucleic acid isolation, PCR clean-up and gel extraction kits. Focusing on improving time and cost reductions within the laboratory, we have expanded our line to include magnetic beads based isolation reagents and the IMAG™ Magnetic Bead Separation Devices (MSDs).

Axygen magnetic bead based isolation features the AxyPrep Mag PCR Clean-Up, AxyPrep Mag PCR Normalizer Kit, AxyPrep Mag FragmentSelect Kit and the IMAG MSDs. AxyPrep magnetic kits utilize a unique paramagnetic bead-based chemistry for the purification and clean-up of nucleic acids for many genomics downstream applications such as DNA sequencing, genotyping and gene expression. Our products are designed to reduce processing time by up to 50%.

IMAG MSDs revolutionize the manual magnetic beads based separation processes used in biological research, including nucleic acid purification and clean-up, cell-based assays, and antibody and protein purification. IMAG MSDs cut total separation process and labor by up to 50%. IMAG MSDs are available in tube (IMAG-12T) or 96 well microplate format (IMAG-96P). They allow manual users to process any magnetic beads-based purification or clean-up process as easily and conveniently as automation users.

For any technical questions, contact us at axgsupport@corning.com.



SAMPLE PREP

Obtaining Pure Nucleic Acids from your Sample is Precious

The purification of high quality of DNA/RNA is the first essential step for any genomics-based downstream application. Poor quality may contribute significantly to the failure of your downstream application and thus delaying your research and increasing your overall research cost. Although certain biological samples are not the limiting factor, there are samples that are very difficult to obtain, making them precious. For these precious samples there is a very little room for error and so utilizing a high quality nucleic acid purification technology becomes essential.

The AxyPrep™ nucleic acid purification product line and accessories it does not only provide the end user with high quality DNA or RNA, they also help reduce operational costs significantly. The AxyPrep product line was optimized specially to cater to technically demanding applications with focus on DNA sequencing. Among such products are our AxyPrep FragmentSelect magnetic bead based chemistry and our AxyPrep PCR Normalizer and our line of handheld magnetic separation devices, IMAG™.



AxyPrep™ Mag PCR Clean-Up Kit

The Mag PCR Clean-Up Kit is designed for efficient removal of unincorporated dNTPs, salts and enzymes after any post PCR. These contaminants are detrimental to the success of downstream applications such as genotyping Sanger and next generation sequencing. The AxyPrep Mag PCR Clean-Up Kit utilizes a unique paramagnetic bead technology for quick high-throughput purification of PCR amplicons. AxyPrep Mag PCR Clean-Up utilizes an optimized buffer to selectively bind PCR amplicons of 60-100 bp or >100 bp to paramagnetic beads, providing end users flexibility and high recovery options with efficient primer-dimer removal based on their downstream application needs. The protocol mainly consists of binding, washing and elution steps. Primers, nucleotides, salts and enzymes in PCR mixture are removed during the binding and washing steps. The purified PCR product is essentially free of contaminants.

- Flexible Clean-Up: High recovery of amplicons with the option to choose recovery of >60 bp or >100 bp
- Efficient removal of unincorporated dNTPs, primers, primer dimers, salts and other contaminants
- Manual and automation-compatible protocol
- Processing time: 15 minutes / 96 samples
- No centrifugation or filtration required



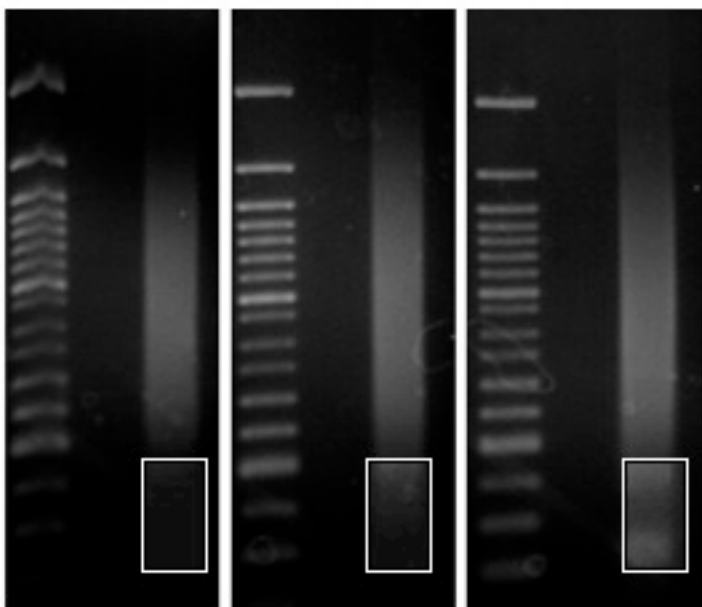
Applications

- Sanger Sequencing
- Next Generation Sequencing

AxyPrep™

AMPure XP

MinElute



Efficient Removal of Primer Dimers

Eliminates extra clean-up steps and reduces the potential of sequencing bias. Gel images of post clean-up of an Illumina library post adaptor ligation. The white box demonstrates that AxyPrep Mag Clean-Up results in no primer dimer carry over which can be observed with Agencourt AMPure and Qiagen MinElute.

Magnetic Beads Kits

Kit Size

Cat. No.

AxyPrep Mag PCR Clean-Up Kit - 5 mL

110 preps

MAG-PCR-CL-5

AxyPrep Mag PCR Clean-Up Kit - 50 mL

1110 preps

MAG-PCR-CL-50

AxyPrep Mag PCR Clean-Up Kit - 250 mL

5550 preps

MAG-PCR-CL-250

AxyPrep™ Mag PCR Normalizer Kit

The AxyPrep Mag PCR Normalizer Kit utilizes a paramagnetic bead-based purification system for post PCR clean-up. AxyPrep Mag PCR Normalizer beads have limited binding surface, therefore by limiting the amount of beads added in a given purification reaction, pre-defined amount of DNA can be isolated based on customers need. PCR normalization is accomplished during this purification process so that additional DNA quantification and dilution are not necessary. Time, labor and reagent cost are greatly saved with the AxyPrep Mag unique normalization purification chemistry therefore efficiently streamlining genomics downstream applications. The protocol mainly consists of binding, washing and elution steps and can be performed directly in the thermal cycling plate and requires no centrifugation or filtration. The process can be automated with walk away solution for high throughput applications.

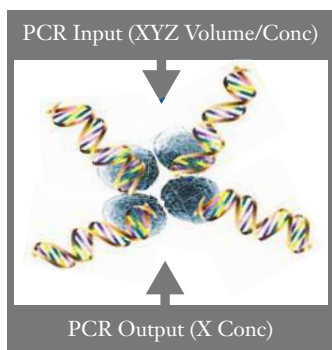
- Dual action: Normalization and post PCR clean-up enables significant reduction in processing and faster turnaround times
- Scalable: Tube, 96 and 384 well plate formats
- Manual and automation-compatible protocol
- Compatible with several downstream applications
- No centrifugation or filtration required



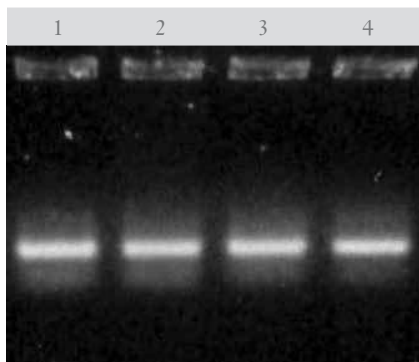
Applications

Sanger Sequencing

Next Generation Sequencing



Dual action: Post PCR product normalization and clean-up. Regardless of the post PCR product volume or concentration added to the AxyPrep Mag PCR Normalizer, the output would be a normalized PCR product to the desired concentration without primer dimer, free dNTPs, or salts carry over.



Gel image of various PCR product volumes from a 50 μ L PCR reaction treated with AxyPrep™ Mag PCR Normalizer. Regardless of PCR input, a similar amount of PCR Fragment is recovered.

Lane 1	5 μ L PCR product
Lane 2	10 μ L PCR product
Lane 3	15 μ L PCR product
Lane 4	20 μ L PCR product

Magnetic Beads Kits	Kit Size	Cat. No.
AxyPrep Mag PCR Normalizer Kit - 5 mL	96 preps	MAG-PCR-NM-5
AxyPrep Mag PCR Normalizer Kit - 50 mL	384 preps	MAG-PCR-NM-50
AxyPrep Mag PCR Normalizer Kit - 250 mL	1920 preps	MAG-PCR-NM-250

AxyPrep™ Mag DyeClean Up Kit

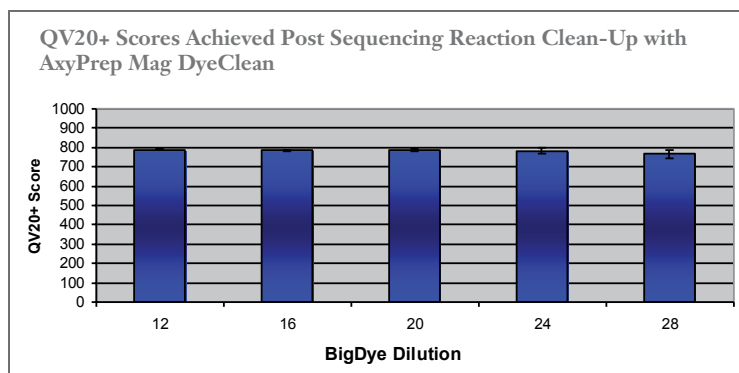
Excess dye terminator clean-up is an essential step prior to sequencing. The carry over of excess dye into sequencing results in dye blobs which leads to overwhelming noise and failed calls of sequenced bases and potentially leading to the failure of the sequencing run. AxyPrep Mag DyeClean utilizes a unique paramagnetic bead-based sequencing purification system optimized for the clean-up of excess dye terminator post sequencing reaction in Sanger sequencing. The protocol mainly consists of binding, washing and elution steps, and can be performed directly in the thermal cycling plate and requires no centrifugation or filtration.

- Saving time and money: Significant BigDye savings without incurring extra cost and processing time with the unneeded BigDye signal enhancer buffer, while maintaining high QV20+ scores
- High signal to noise ratio resulting in long reads and high QV20+ scores
- Suitable for the clean-up of sequencing reaction of different Sanger sequencing based platforms - ABI Prism 3730, 3730xl, 3700, 3130, 31030xl, and 3100 - GE Healthcare MegaBACE
- Simple and easy sequencing reaction clean-up process: 25 minutes/96 samples
- No centrifugation or filtration required

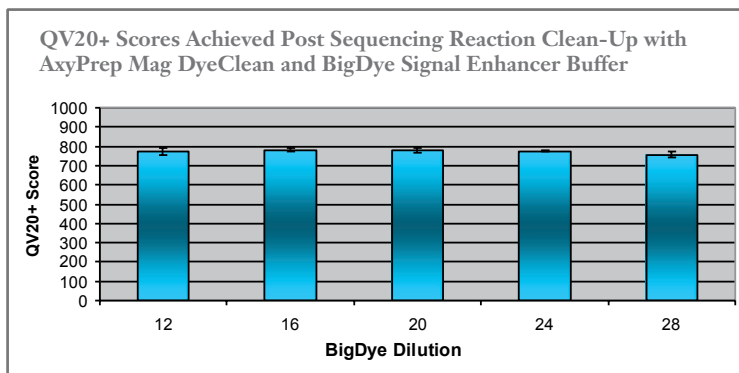


Applications

Sanger Sequencing



Savings Achieved On BigDye Without The Need For A Signal Enhancer While Maintaining High QV20+ Scores
 The QV20+ scores achieved indicates that there is no need for the use of the BigDye Signal Enhancer buffer (MCLab) when AxyPrep Mag DyeClean is utilized for the post sequencing reaction clean-up. Sequencing reactions were performed with plasmid and primer provided in the BigDye v3.1 kit. The sequencing reactions contained 250 ng of pGEM 3Zf(+) control plasmid, 3.2 pmol of M13(-21) primer and the indicated amount of BigDye v3.1 in a final volume of 10 µL. The samples were processed on ABI 3730xl.



SAMPLE PREP

Magnetic Beads Kits	Kit Size	Cat. No.
AxyPrep Mag PCR DyeClean Kit - 5 mL	500 preps	MAG-DYECL-5
AxyPrep Mag PCR DyeClean Kit - 50 mL	5000 preps	MAG-DYECL-50
AxyPrep Mag PCR DyeClean Kit - 250 mL	25000 preps	MAG-DYECL-250

AxyPrep™ Mag Fragment Selection Kit

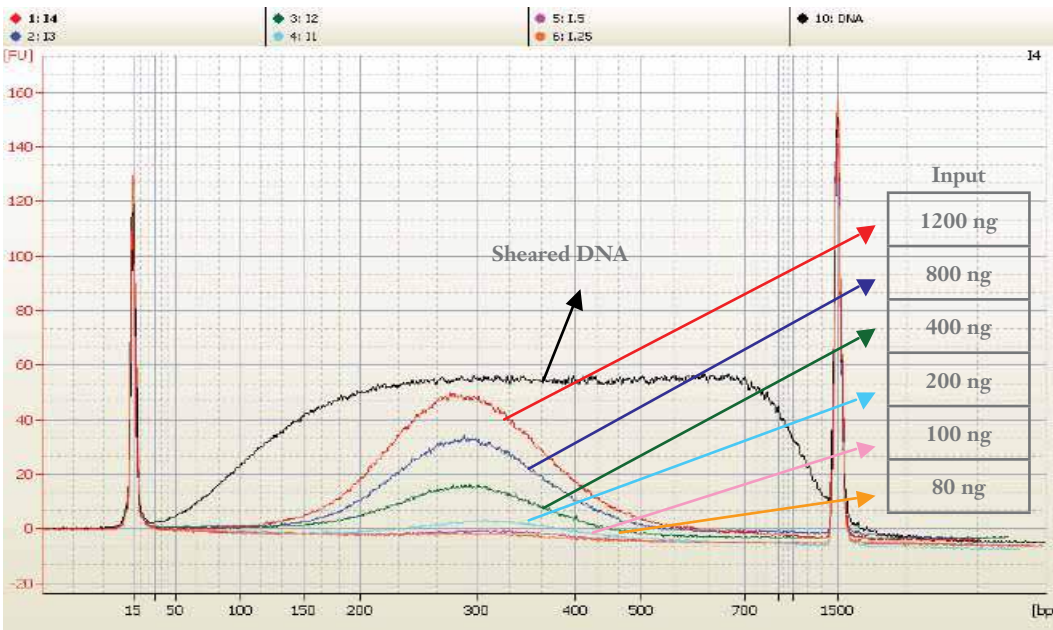
Post DNA shearing, the library construction process for next generation sequencing mostly requires fragment selection regardless of the platform. Obtaining high recovery post fragment selection is becoming an important contributor for the reduction of sequencing bias. The AxyPrep FragmentSelect-I Kit is optimized for Illumina next generation sequencing platforms and Life Technologies (SOLiD™) fragment size selection needs in the Roche/454's DNA Genome sequencer library construction workflow. The AxyPrep Mag FragmentSelect Kits utilize a unique paramagnetic bead technology for quick high-throughput optimized DNA size selection suitable for various next generation sequencing platforms.

- ▶ FragmentSelect-I Kit optimized fragment selection chemistries for Illumina and SOLiD
- ▶ Versatile and flexible sequential fragment size selection: No gels needed
- ▶ Efficient removal of primer-dimers: No need for further clean-up steps
- ▶ Manual and automation-compatible
- ▶ Scalable: Tube, 96 and 384 well plate formats
- ▶ No centrifugation or filtration required



Applications

- ▶ Illumina Next Generation Sequencing
- ▶ Life Technologies (SOLiD) Fragment Size Selection
- ▶ Library Construction



Consistently High Amplicon Recovery

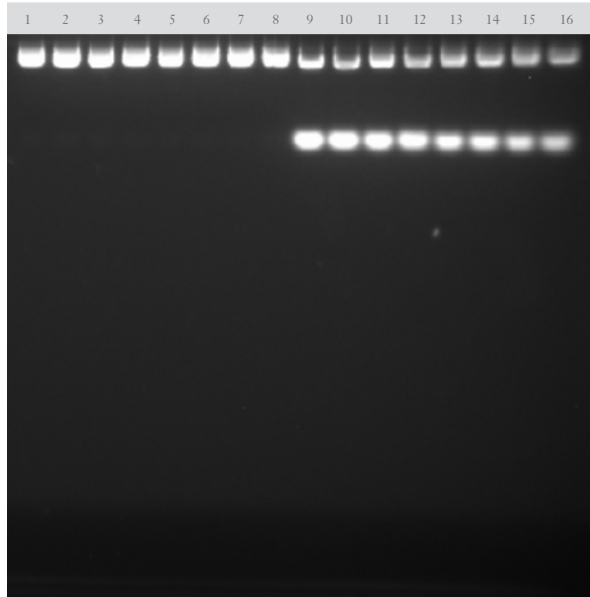
The effect of concentration of input DNA on fragment selection measured by Agilent BioAnalyzer on a High Sensitivity DNA chip.

Magnetic Beads Kits	Kit Size	Cat. No.
AxyPrep FragmentSelect-I Kit - 5 mL	4 preps	MAG-FRAG-I-5
AxyPrep FragmentSelect-I Kit - 50 mL	380 preps	MAG-FRAG-I-50
AxyPrep FragmentSelect-I Kit - 250 mL	1900 preps	MAG-FRAG-I-250

AxyPrep™ Mag Plasmid Kit

RNA Free Kits

The AxyPrep Mag Plasmid purification kit utilizes a magnetic bead technology for high-throughput purification of plasmid DNA from *E.coli* cells. AxyPrep Mag Plasmid Kit can also be used with fosmid and BAC vector-based constructs ranging from 5 Kb to 150 Kb. The system consists of steps of pelleting cells, resuspension, lysis, neutralization, DNA binding, ethanol washing and plasmid elution. The protocol is automation-compatible.



RNA contamination causes inaccurate plasmid yields. No RNA contamination is visible with the AxyPrep Mag Plasmid Kit when compared to the competitor.

Applications

- Fluorescent DNA Sequencing
- Transformation
- DNA Sequencing (including capillary electrophoresis)
- PCR Amplification
- Restriction Enzyme Digestion

Different size plasmid purified with the AxyPrep Mag Plasmid Kit. 1% TBE agarose Gel run at 120 V for 12 minutes. 5 µL loaded on agarose gels. Elution volume = 40 µL, Plasmid Size: 6K

Lane 1-8	Axygen	800 µL of 2xYT
Lane 9-16	Competitor	800 µL of 2xYT

Magnetic Beads Kits	Kit Size	Cat. No.
AxyPrep Mag Plasmid Kit - Small	96 preps	MAG-P-S
AxyPrep Mag Plasmid Kit - Medium	384 preps	MAG-P-M

AxyPrep™ Mag Tissue and Blood gDNA Kit

One Kit for Multiple Sample Types

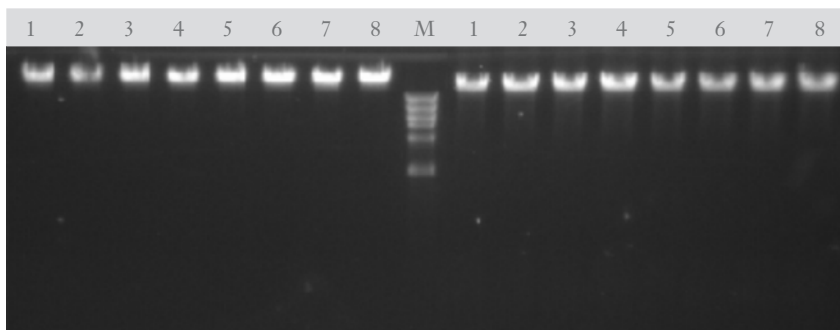
The AxyPrep Mag Tissue gDNA Kit utilizes a magnetic bead-based technology to isolate genomic DNA from rodent tail tissues. This protocol provides instruction to extract gDNA from fresh or frozen rodent tails. The protocol is performed in 96 well format and 1.5 mL tubes. Purification begins by the addition of lysis buffer, and Proteinase K to rupture cell membranes and digest protein. Genomic DNA is then immobilized on magnetic particles by the addition of a magnetic binding reagent. This differential binding allows the gDNA to be easily separated from contaminants using a magnetic field. Contaminants can then be rinsed away using a simple washing procedure.

- Expanded protocol for animal tissue, cultured cells, buccal swabs and blood



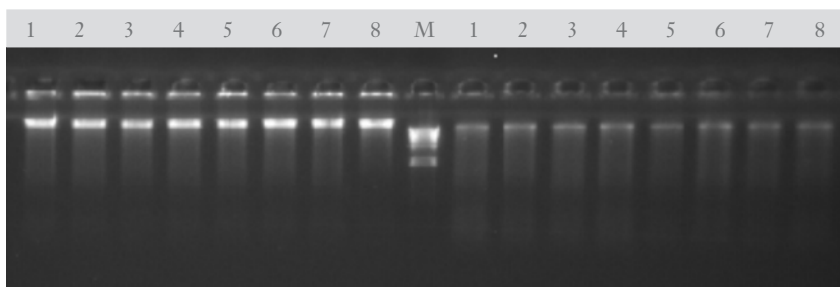
Applications

- Restriction Enzyme Digestion
- DNA Sequencing
- Genotyping
- PCR Amplification



DNA tissue from Chicken liver purified with the AxyPrep Mag Tissue and Blood gDNA Kit. 1% Gel run at 130 V for 10 minutes. 5 μ L DNA Solution used in each gel well. Elution volume = 200 μ L

Lane 1-8	Competitor	10 mg of fresh chicken liver
M	Axygen 1 Kb DNA Ladder	
Lane 1-8	Axygen	10 mg of fresh chicken liver



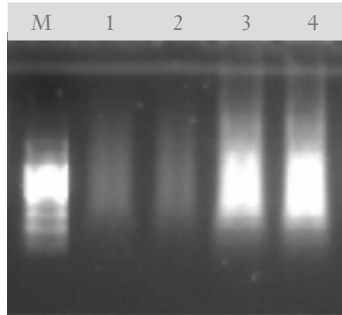
Human Whole Blood stored in EDTA purified with the AxyPrep Mag Tissue and Blood gDNA Kit. 1% Gel run for 15 minutes. For the Competitor, 200 μ L Elution Buffer used and 10 μ L DNA solution used for each well. For Axygen, 100 μ L Elution Buffer used, and 5 μ L DNA solution used for each well.

Lane 1-8	Competitor	200 μ L Human Whole Blood stored in EDTA
M	Axygen 1 Kb DNA Ladder	
Lane 1-8	Axygen	200 μ L Human Whole Blood stored in EDTA

Magnetic Beads Kits	Kit Size	Cat. No.
AxyPrep Mag Tissue gDNA - Small	96 preps	MAG-T-GDNA-S
AxyPrep Mag Tissue gDNA - Medium	384 preps	MAG-T-GDNA-M
AxyPrep Mag Tissue gDNA - Large	3840 preps	MAG-T-GDNA-L

AxyPrep™ Mag FFPE (DNA-RNA-miRNA) Kit

The AxyPrep Mag FFPE nucleic acid purification kit utilizes a magnetic beads based technology to isolate nucleic acids (both DNA and RNA) from a maximum input of 10 mg of formalin-fixed, paraffin-embedded tissue. The protocol can be performed in both 96 well plate (manually and automated) and in 1.5 mL tubes. Nucleic acid extraction begins with the addition of a reagent that melts paraffin and de-crosslinks nucleic acids. Proteinase K is then added to complete tissue digestion and inactivate nucleases. Next, binding buffer is added to facilitate immobilization of the nucleic acids to the surface of paramagnetic beads. The contaminants are washed away using a simple washing step.



5 μ L DNA Solution was loaded into each well, Elution Volume = 40 μ L

M	Axygen 1 Kb DNA Ladder
Lane 1,2	Competitor
Lane 3,4	Axygen

Applications

- DNA Sequencing
- Gene Expression
- Genotyping

SAMPLE PREP

Magnetic Beads Kits	Kit Size	Cat. No.
AxyMag FFPE (DNA-RNA-miRNA) - Medium	96 preps	MAG-FFPE-M
AxyMag FFPE (DNA-RNA-miRNA) - Large	384 preps	MAG-FFPE-L

IMAG™ Handheld Magnetic Beads Separation Devices

The use of magnetic separation devices (MSD) are essential in any paramagnetic bead based purification process. Traditionally, MSDs are not optimized for manual use and most require electrically powered liquid handling systems. IMAG MSDs are available in tube or microplate format and are designed to simplify the manual processing of magnetic bead separations including nucleic acid purification and clean-up, cell based assays, and antibody and protein purifications.

- ▶ IMAG MSDs accommodate single tube or 96 well microplate formats
- ▶ Fast separation time
 - Strong magnets enable less than 30 second separation times
 - Holds tubes or microplate enabling fast wash steps
- ▶ Manual operation enables low or high throughput



Applications

- Nucleic acid purification and clean-up
- Cell based assays
- Antibody and protein purifications

IMAG-96P: Separation of magnetic beads in microplate format



10 seconds after the separation process



20 seconds after the separation process



30 seconds after the separation process

IMAG-12T: Separation of magnetic beads in tube format



10 seconds after the separation process



20 seconds after the separation process



30 seconds after the separation process

Hand-held Magnetic Beads Separation Devices

IMAG magnetic hand-held device for screw cap tubes

Packaging

1 unit
1 unit

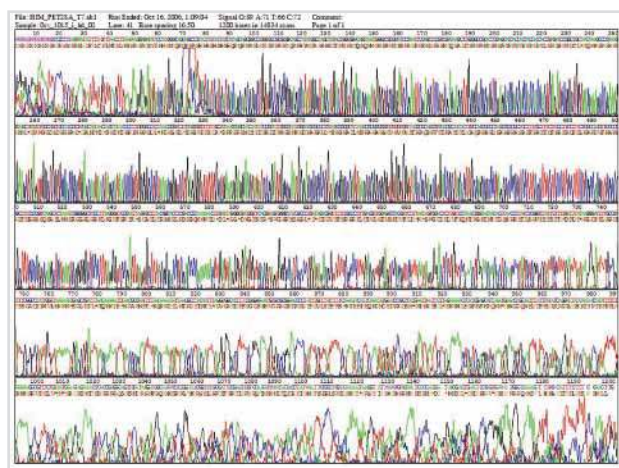
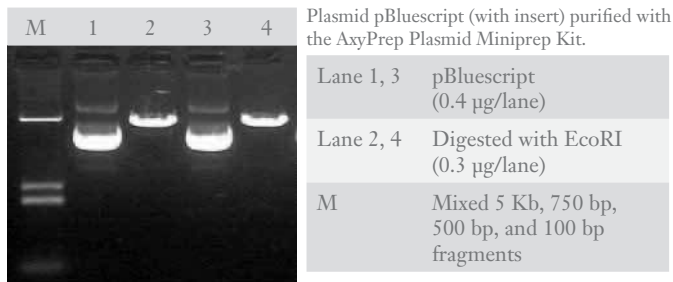
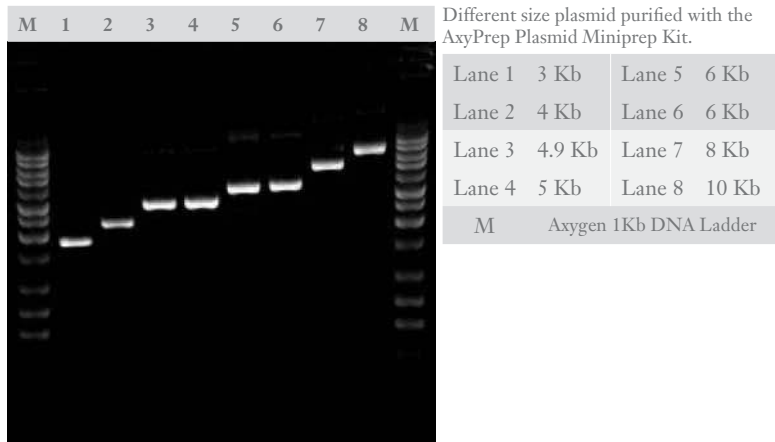
Cat. No.

IMAG-12T
IMAG-96P

AxyPrep™ Plasmid DNA Purification Miniprep Kit

The AxyPrep Plasmid Miniprep Kit provides a rapid and economical method for the purification of plasmid DNA in a convenient mini column format. Each column can process up to 4 mL of bacterial cultures grown in LB or up to 2 mL of cultures grown in rich broth. The entire procedure can be completed within 20 minutes.

- Rapid spin and vacuum protocols
- No alcohol precipitation
- High yields up to 20 µg
- High-purity plasmid suitable for many applications



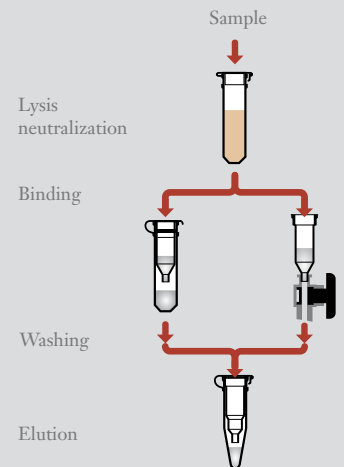
ABI PRISM® 3730 data. Big Dye™ v. 3.1



Applications

- DNA Sequencing
- Restriction Digestion
- In Vitro Transcription
- Library screening
- Ligation
- Transformation

Overview

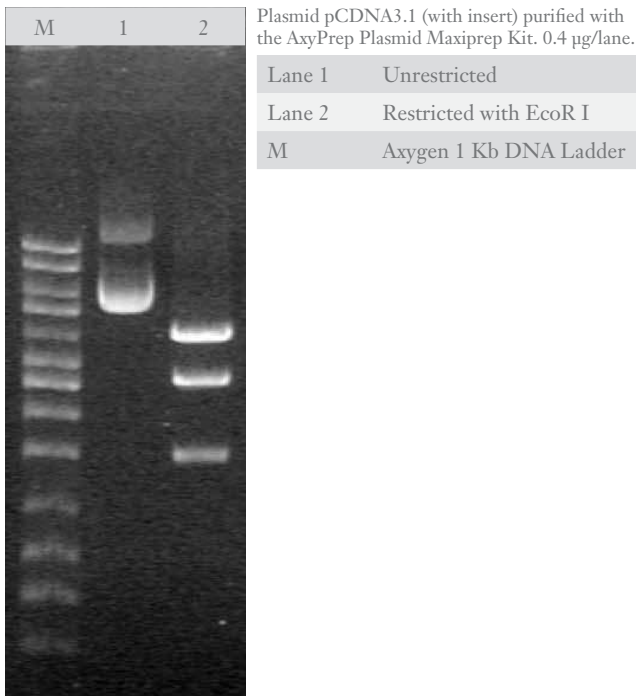
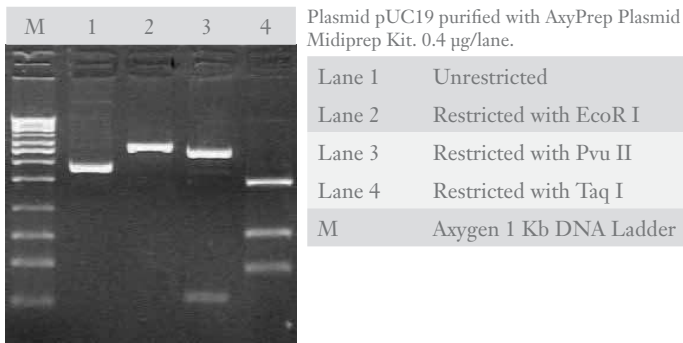


Filtration Kits	Kit Size	Cat. No.
AxyPrep Plasmid Miniprep Kit	4 preps	AP-MN-P-4
AxyPrep Plasmid Miniprep Kit	50 preps	AP-MN-P-50
AxyPrep Plasmid Miniprep Kit	250 preps	AP-MN-P-250

AxyPrep™ Plasmid DNA Purification Midiprep and Maxiprep Kits

The AxyPrep Plasmid Midiprep and Maxiprep Kits are based upon a modified SDS-alkaline lysis of bacterial cells in combination with lysate filtration and selective binding of the plasmid DNA to special AxyPrep purification columns. The yield of plasmid for these kits is up to 100 µg. These kits can also be used to isolate large constructs, such as BAC, PAC and P1. The protocols provide a simple, rapid and efficient method for the isolation of highly purified plasmid DNA. The entire preparation process can be completed in 30 minutes. A vacuum manifold is required.

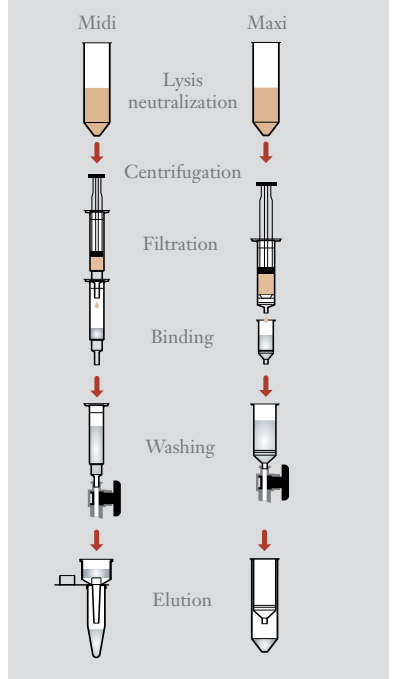
- Rapid spin protocols
- No alcohol precipitation
- High yields: 100 µg to 500 µg
- High purity plasmid suitable for many downstream applications



Applications

- DNA Sequencing
- Restriction Digestion
- In Vitro Transcription
- Library Screening
- Ligation
- Bacterial transformation

Overview

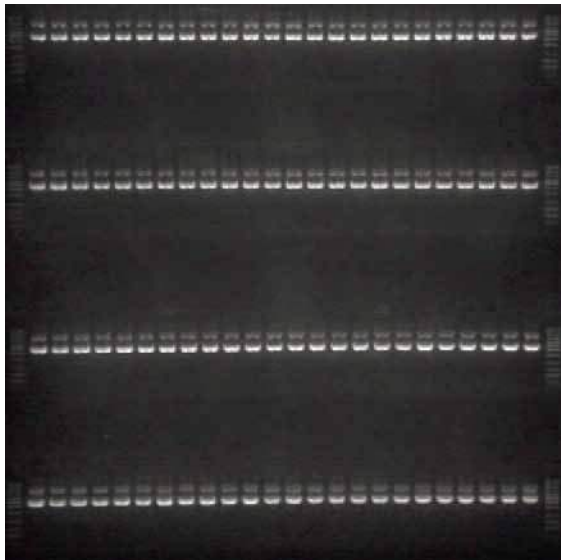


Filtration Kits	Kit Size	Cat. No.
AxyPrep Plasmid Midiprep Kit	2 preps	AP-MD-P-2
AxyPrep Plasmid Midiprep Kit	10 preps	AP-MD-P-10
AxyPrep Plasmid Midiprep Kit	25 preps	AP-MD-P-25
AxyPrep Plasmid Maxiprep Kit	2 preps	AP-MX-P-2
AxyPrep Plasmid Maxiprep Kit	10 preps	AP-MX-P-10
AxyPrep Plasmid Maxiprep Kit	25 preps	AP-MX-P-25

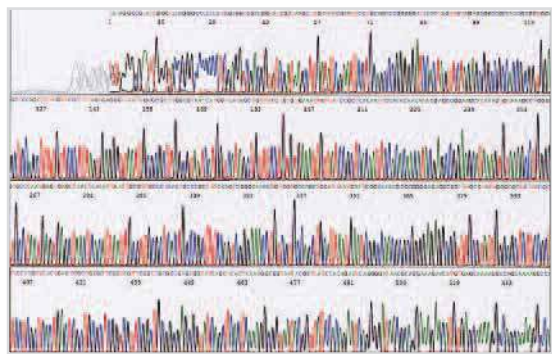
AxyPrep™ 96 Plasmid Kit

The AxyPrep 96 Plasmid Kit represents a true high-throughput system for the purification of plasmid or cosmid DNA in a 96 well format. This product is designed to produce up to 20 µg of highly purified plasmid or cosmid DNA (per well) from up to 1.3 mL of bacterial cultures in 96 well format. Two plates rapidly and efficiently process the bacterial lysate, using either vacuum or centrifugation. The Lysate Filtration Plate efficiently removes bacterial cellular debris and transfers the clarified lysate directly into the plasmid plate for desalting. The plasmid is then eluted into a small volume of buffer or deionized water. The highly-purified plasmid or cosmid DNA is free from protein, genomic DNA and RNA. A vacuum manifold and vacuum source are required.

- High-throughput, 96 well plate format
- Two-plate system (lysate filtration and plasmid binding)
- Up to 20 µg of highly purified bacterial plasmid per well
- No alcohol precipitation
- Suitable for automated fluorescent sequencing
- Automation-compatible plasticware
- Rapid spin protocol



Multiple aliquots of plasmid pBS (with 1 Kb insert) grown in JM109 purified with the AxyPrep 96 Plasmid Kit. 1.3 mL of culture processed per well. Approximately 0.3 µg plasmid run per lane on a 1% agarose gel. Axygen 1 Kb ladder included.



Representative ABI PRISM® 3730 data. Big Dye™ v. 3.1.



Applications

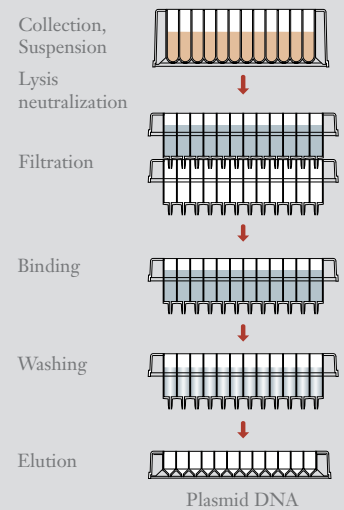
Automated fluorescent sequencing on the ABI PRISM DNA Analyzers

In Vitro Transcription

Restriction Digestion

PCR

Overview

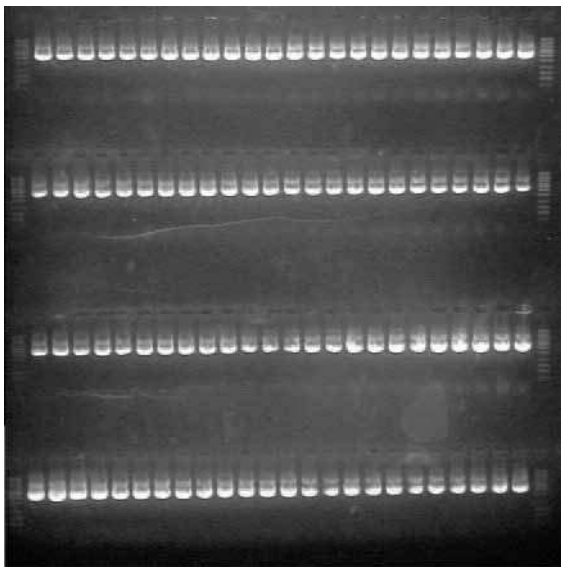


Filtration Kit	Kit Size	Cat. No.
AxyPrep 96 Plasmid Kit	1x96 preps	AP-96-P-1
AxyPrep 96 Plasmid Kit	4x96 preps	AP-96-P-4
AxyPrep 96 Plasmid Kit	24x96 preps	AP-96-P-24

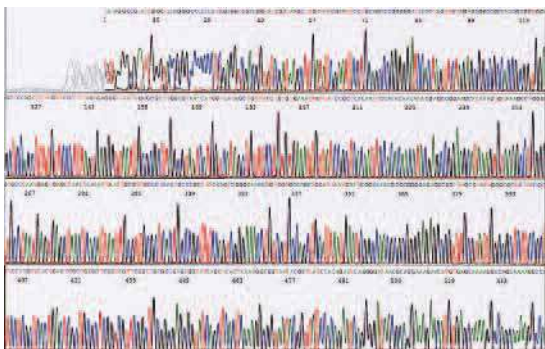
AxyPrep™ Easy 96 Plasmid Kit

The AxyPrep Easy 96 Plasmid Kit employs an optimized 96 well lysate filtration plate and an alcohol precipitation step to purify plasmid and cosmid DNA from bacterial cultures. The kit is designed to process 1.3 mL aliquots of bacterial cultures, grown in a 96 well format. Plasmid or cosmid DNA prepared by the Easy 96 Plasmid DNA Miniprep Kit is suitable for automated fluorescent DNA sequencing on instruments such as the ABI PRISM 3700 and 3730 DNA Analyzers and the MegaBACE 1000. This kit is also recommended for the purification of large recombinant constructs such as BAC's and P1A. A vacuum manifold and vacuum source are required.

- Lysate filtration followed by alcohol precipitation
- Rapid vacuum and centrifuge protocols
- "Molecular Biology Grade" plasmid DNA suitable for many applications



Multiple aliquots of plasmid pBS (with 1 Kb insert) grown in DH5α purified with the AxyPrep Easy 96 Plasmid Kit. 1.3 mL of culture processed per well. Approximately 0.5 µg plasmid run per lane on a 1% agarose gel. Axygen 1 Kb ladder included.



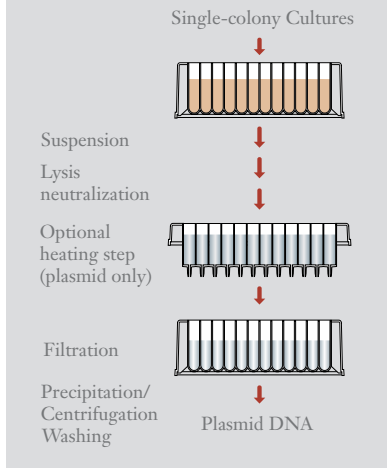
Representative ABI PRISM® 3730 data. Big Dye™ v. 3.1.



Applications

- Restriction Digestion
- PCR
- Probe Synthesis
- Purification of large recombinant constructs such as BACs and P1A.

Overview



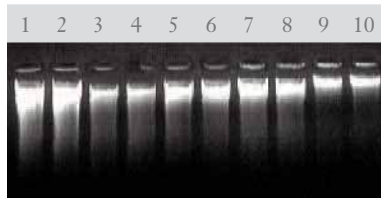
Filtration Kit	Kit Size	Cat. No.
AxyPrep Easy 96 Plasmid Kit	1x96 preps	AP-E96-P-1
AxyPrep Easy 96 Plasmid Kit	4x96 preps	AP-E96-P-4
AxyPrep Easy 96 Plasmid Kit	24x96 preps	AP-E96-P-24

AxyPrep™ Multisource Genomic DNA Miniprep Kit

The AxyPrep Multisource Genomic DNA Miniprep Kit is designed to purify gDNA from animal and plant tissues, cultured cells and yeast. Proteins, pigments, carbohydrates and lipids are efficiently segregated from the gDNA by a unique two-phase partitioning technology. Genomic DNA prepared by this method is approximately ≥ 30 Kb in length.

- Expanded protocols for animal and plant tissues, cultured cells, lymphocytes, bone marrow, dried blood, buccal swabs, yeast and filamentous fungi
- High yield of up to 20 μ g of highly purified gDNA
- High molecular weight gDNA ≥ 30 Kb
- Rapid spin and vacuum protocols
- No alcohol precipitation

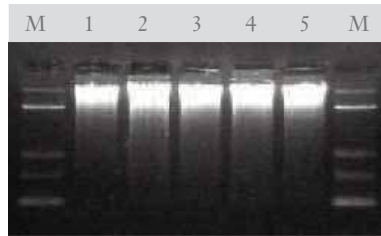
Mouse Tissues



Genomic DNA purified from 20 mg of various mouse tissues with the redesigned AxyPrep Multisource Genomic DNA Miniprep Kit.

Lane 1, 2	Brain (1 μ g/lane)
Lane 3, 4	Heart (1 μ g/lane)
Lane 5, 6	Liver (1 μ g/lane)
Lane 7, 8	Kidney (1 μ g/lane)
Lane 9, 10	Muscle (1 μ g/lane)

Plant Tissues



Genomic DNA isolated from 20 mg of various plant tissues.

Lane 1, 2	Peanut Leaves (200 ng/lane)
Lane 3, 4	Yam Leaves (200 ng/lane)
Lane 5, 6	Watermelon Leaves (200 ng/lane)

Cultured Cells



Genomic DNA isolated from cultured mammalian cells.

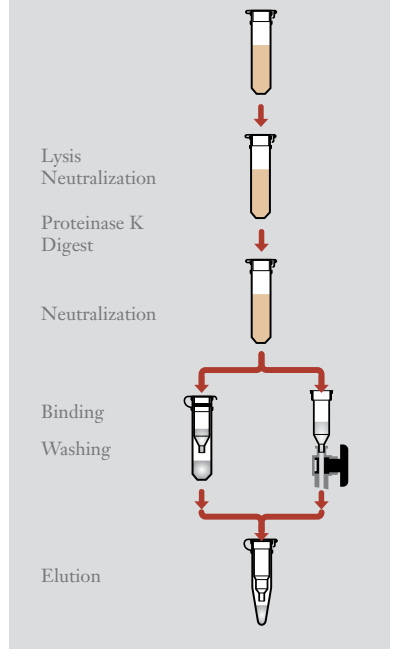
Lane 1	HL-60 (500 ng/lane)
Lane 2	COS-7 (500 ng/lane)
Lane 3	CHO (500 ng/lane)
Lane 4	Hela (500 ng/lane)
Lane 5	Sp20 (500 ng/lane)
M	Marker (500 ng/lane)



Applications

- PCR
- Southern Blotting
- Restriction Digestion

Overview

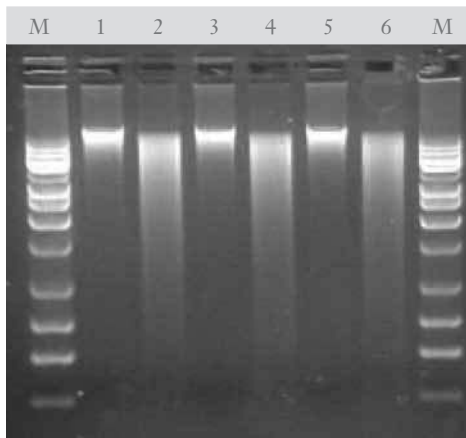


Filtration Kit	Kit Size	Cat. No.
AxyPrep Multisource Genomic DNA Miniprep Kit	4 preps	AP-MN-MS-GDNA-4
AxyPrep Multisource Genomic DNA Miniprep Kit	50 preps	AP-MN-MS-GDNA-50
AxyPrep Multisource Genomic DNA Miniprep Kit	5x50 preps	AP-MN-MS-GDNA-250

AxyPrep™ Blood Genomic DNA (gDNA) Miniprep Kit

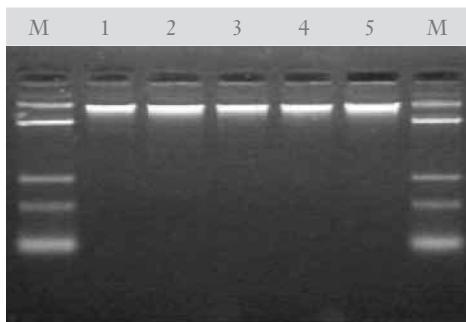
The AxyPrep Blood gDNA Miniprep Kit is suitable for purifying up to 12 µg of gDNA from 250 µL of whole blood. Blood gDNA is isolated directly from the white blood cell (WBC) component of whole blood, without the need to remove the red blood cells (RBCs) in advance. The isolation of gDNA from blood by this method is based on the efficient release of gDNA from by a special cell lysis and heme/protein precipitation buffer, coupled with the selective absorption of the gDNA to a special AxyPrep column. The purified DNA is approximately ≥30 Kb in length.

- For fresh, frozen or dried blood samples
- High yield of up to 12 µg of highly purified gDNA
- High molecular weight gDNA product (≥30 Kb)
- Rapid spin protocols
- No alcohol precipitaton
- Purified gDNA is suitable for many downstream applications



Genomic DNA purified from anticoagulated human blood samples with the AxyPrep Blood Genomic DNA Miniprep Kit. 0.4 µg/lane

Lane 1, 3, 5	Unrestricted
Lane 2, 4, 6	Restricted with EcoRI
M	Axygen 1 Kb DNA Ladder



Genomic DNA purified from anticoagulated human blood samples with the AxyPrep Blood Genomic DNA Miniprep Kit. 0.4 µg/lane

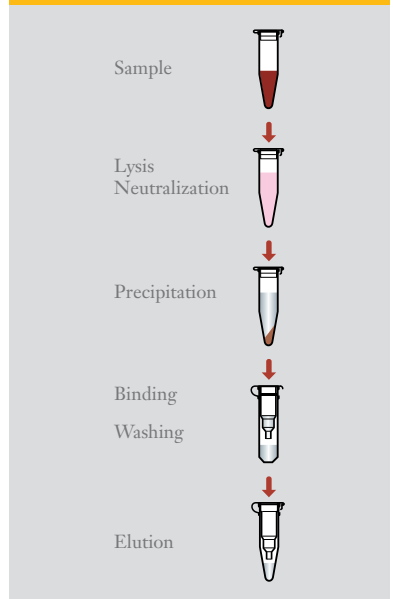
Lane 1-3	Clotted
Lane 4-5	Dried
M	Marker



Applications

PCR
Southern Blotting

Overview



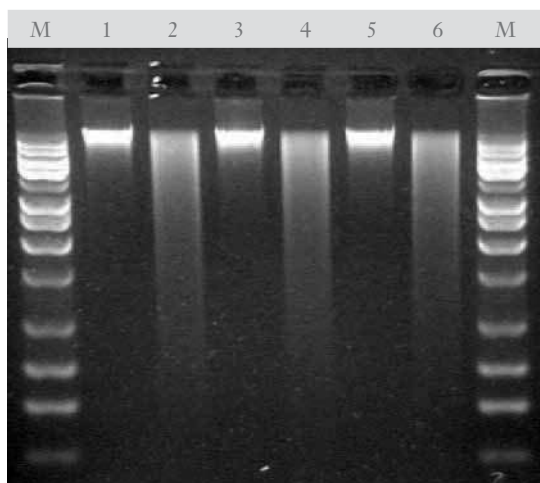
Filtration Kit

	Kit Size	Cat. No.
AxyPrep Blood Genomic DNA Miniprep Kit	4 preps	AP-MN-BL-GDNA-4
AxyPrep Blood Genomic DNA Miniprep Kit	50 preps	AP-MN-BL-GDNA-50
AxyPrep Blood Genomic DNA Miniprep Kit	250 preps	AP-MN-BL-GDNA-250

AxyPrep™ Blood Genomic DNA (gDNA) MidiPrep and Maxiprep Kits

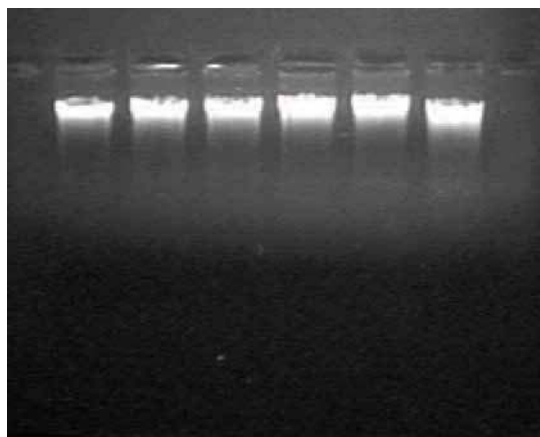
The AxyPrep Blood gDNA MidiPrep and Maxiprep Kits are designed to produce up to 100 µg and 250 µg of high molecular weight gDNA respectively from anticoagulated human or animal blood. Purification is based upon a unique phase-partitioning technology in combination with the selective binding of the genomic DNA to a special AxyPrep column. The purified genomic DNA is ≥30 Kb in size and is particularly well suited for PCR, Southern blotting and other applications requiring highly purified, high molecular weight gDNA. A vacuum manifold and vacuum source are required.

- Rapid protocols for fresh, frozen anticoagulated blood samples
- Unique phase-partition step for higher yield
- No alcohol precipitation
- High molecular weight gDNA suitable for many downstream applications



Genomic DNA purified from anticoagulated human blood samples with the AxyPrep Blood Genomic DNA MidiPrep Kit. 0.4 µg/lane.

Lane 1, 3, 5	Unrestricted
Lane 2, 4, 6	Restricted with EcoRI
M	Axygen 1 Kb DNA Ladder



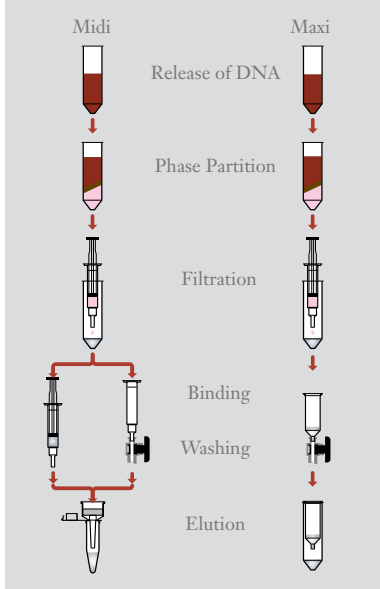
Genomic DNA purified from anticoagulated human blood (multiple donors) with the AxyPrep Blood Genomic DNA Maxiprep Kit. 0.4 µg/lane.



Applications

PCR
Southern Blotting

Overview

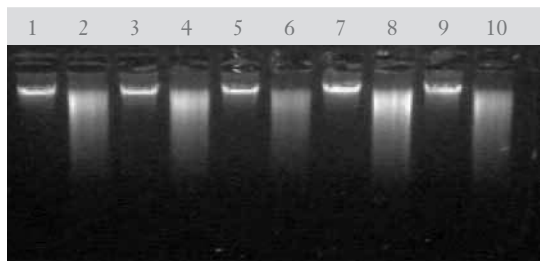


Filtration Kits	Kit Size	Cat. No.
AxyPrep Blood Genomic DNA MidiPrep Kit	2 preps	AP-MD-BL-GDNA-2
AxyPrep Blood Genomic DNA MidiPrep Kit	10 preps	AP-MD-BL-GDNA-10
AxyPrep Blood Genomic DNA MidiPrep Kit	25 preps	AP-MD-BL-GDNA-25
AxyPrep Blood Genomic DNA MaxiPrep Kit	2 preps	AP-MX-BL-GDNA-2
AxyPrep Blood Genomic DNA MaxiPrep Kit	10 preps	AP-MX-BL-GDNA-10
AxyPrep Blood Genomic DNA MaxiPrep Kit	25 preps	AP-MX-BL-GDNA-25

AxyPrep™ 96 Blood Genomic DNA Kit

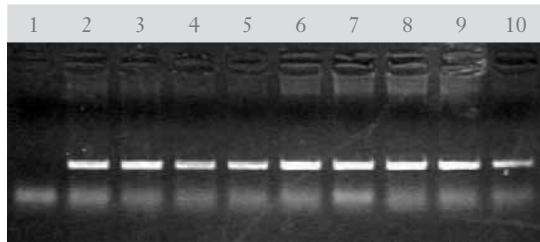
The AxyPrep 96 Blood gDNA Kit is a high-throughput purification of gDNA from whole blood in a 96 well format. This kit is based upon the efficient release of gDNA from anticoagulated whole blood by a special cell lysis and protein-removal buffer in combination with Proteinase K digestion. The gDNA is then selectively absorbed onto a special 96 well plate for further purification and desalting. The purified DNA is predominantly ≥ 30 Kb in length, and is suitable for a variety of applications demanding highly purified, high molecular weight gDNA such as Southern blot analysis, PCR, etc.

- Protocols for fresh, frozen anticoagulated blood samples, lymphocytes and cultured cells in a 96 well format
- High yield of up to 10 μg of highly purified gDNA per well
- High molecular weight gDNA product (≥ 30 Kb)
- Rapid sping protocols
- No alcohol precipitation
- Purified gDNA is suitable for many downstream applications



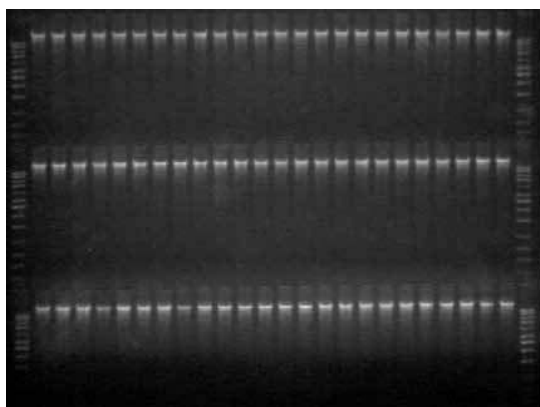
Blood genomic DNA purified from human blood with the AxyPrep 96 Blood Genomic Kit. 0.4 μg /lane on a 0.8% agarose gel.

Lane 1, 3, 5, 7, 9	Unrestricted
Lane 4-5	Restricted with EcoRI



Template DNA samples were randomly selected from 96 genomic DNA samples purified with the AxyPrep 96 Blood Genomic DNA Miniprep Kit.

Lane 2- 9	GAPDH amplicons generated from 8 human blood genomic DNA samples
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96 blood genomic DNA samples purified from human blood (200 μL /prep) with the AxyPrep 96 Blood Genomic DNA Kit. Approximately 0.3 μg /lane on a 0.8% agarose gel.

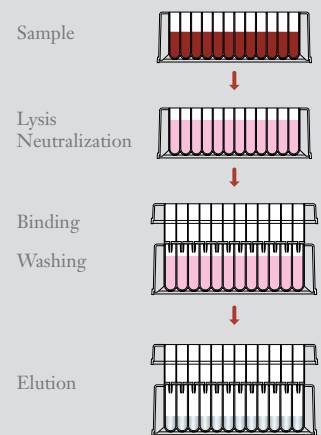
M	Axygen 1 Kb DNA Ladder
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Applications

Southern Blotting
PCR

Overview

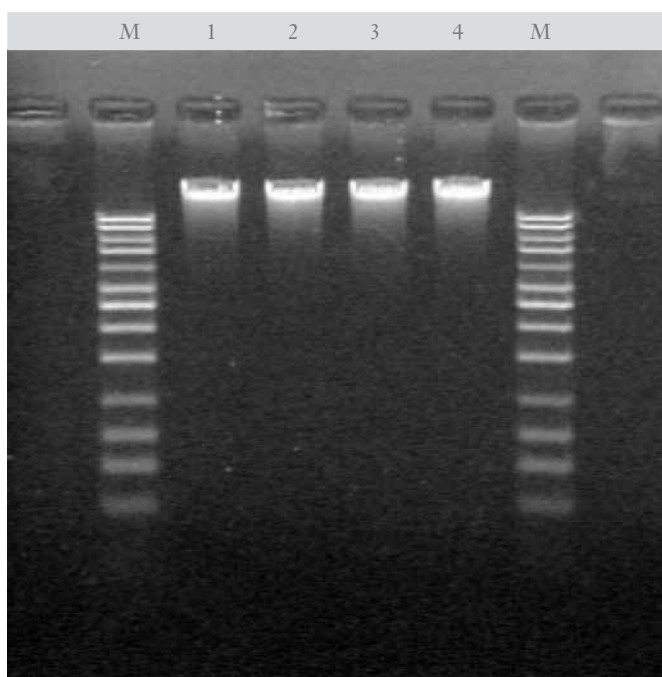


Filtration Kit	Kit Size	Cat. No.
AxyPrep 96 Blood Genomic DNA Kit	1x96 preps	AP-96-BL-GDNA-1
AxyPrep 96 Blood Genomic DNA Kit	4x96 preps	AP-96-BL-GDNA-4
AxyPrep 96 Blood Genomic DNA Kit	12x96 preps	AP-96-BL-GDNA-12

AxyPrep™ Bacterial Genomic DNA (gDNA) Miniprep Kit

The AxyPrep Bacterial gDNA Kit is suitable for the rapid isolation of up to 20 mg of gDNA from $\sim 10 \times 10^9$ bacterial cells. Following lysis, separation of the gDNA from proteins, polysaccharides and lipids is achieved by a unique phase-partitioning step. The gDNA in the lower phase is selectively bound to a special AxyPrep column for further purification and desalting. The highly purified gDNA is predominantly 30 Kb in length and is suitable for a variety of applications demanding highly purified, high molecular weight gDNA such as PCR and Southern blot analysis.

- High yield fo up to 20 µg of highly purified gram ± bacterial gDNA per prep
- High molecular weight gDNA product (≥30 Kb)
- Rapid spin and vacuum protocols
- No alcohol precipitation
- Purified gDNA is suitable for many downstream applications



Genomic DNA purified from different 1 mL E. coli JM109 cultures with the AxyPrep Bacterial Genomic DNA Miniprep Kit. 0.3 µg/lane.

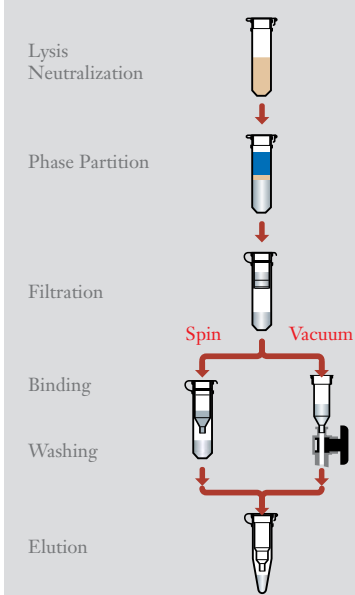
M Axygen 1 Kb DNA Ladder



Applications

Southern Blotting
PCR

Overview



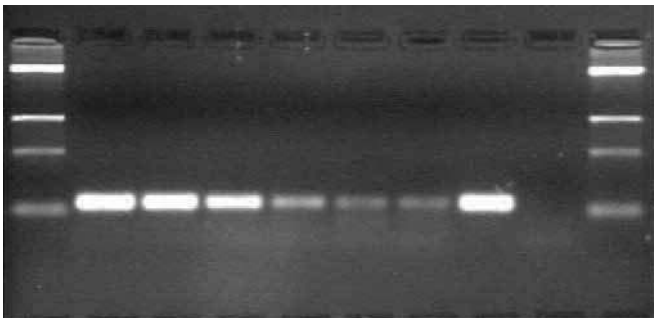
"Phase-partitioning" is a process owned by US patent No. 7,355,038 and owned by Axygen, Inc.

Filtration Kit	Kit Size	Cat. No.
AxyPrep Bacterial Genomic Miniprep Kit	4 preps	AP-MN-BT-GDNA-4
AxyPrep Bacterial Genomic Miniprep Kit	50 preps	AP-MN-BT-GDNA-50
AxyPrep Bacterial Genomic Miniprep Kit	250 preps	AP-MN-BT-GDNA-250

AxyPrep™ Body Fluid Viral DNA/RNA Miniprep Kit

This AxyPrep Body Fluid Viral DNA/RNA Miniprep Kit provides a rapid and highly reproducible way to purify viral nucleic acid from 250 mL of body fluid, including plasma, serum, ascites, cerebrospinal fluid, urine and cell cultures supernatants. During lysis, proteins and PCR inhibitors are removed by denaturation and precipitation. Viral nucleic acids remain soluble in the supernatant and are purified by binding to a special AxyPrep column. After brief washes to remove residual impurities and salt, the purified viral nucleic acid is eluted and can be used immediately. The viral nucleic acid purified by this method is free from contaminants, such as proteins, pigments, lipids and PCR/RT-PCR inhibitors.

- ▶ Plasma, serum, ascites, cerebrospinal fluid, urine and cell cultures supernatants
- ▶ Rapid spin protocols
- ▶ No alcohol precipitation
- ▶ Suitable for PCR/RT-PCR analysis



120 bp viral amplicon generated by RT-PCR from a dilution series of Hepatitis A (10⁶ phage/mL) viral RNA purified with the AxyPrep Body Fluid Viral DNA/RNA Miniprep Kit.

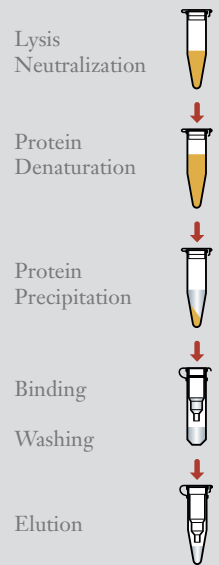
Lane 1	1:10 dilution
Lane 2	1:10 ² dilution
Lane 3	1:10 ³ dilution
Lane 4	1:10 ⁴ dilution
Lane 5	1:10 ⁵ dilution
Lane 6	1:10 ⁶ dilution
Lane 7	Positive control
Lane 8	Negative control
M	Mixed DNA marker fragments (5 Kb, 1 Kb, 500 bp and 100 bp)



Applications

PCR/RT-PCR Analysis

Overview

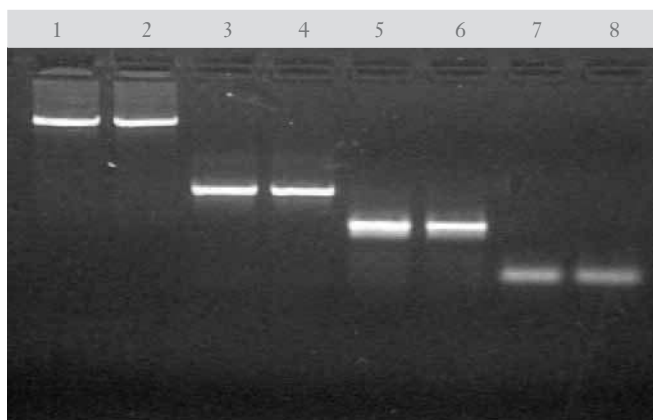


Filtration Kit	Kit Size	Cat. No.
AxyPrep Body Fluid Viral DNA/RNA Miniprep Kit	4 preps	AP-MN-BF-VNA-4
AxyPrep Body Fluid Viral DNA/RNA Miniprep Kit	50 preps	AP-MN-BF-VNA-50
AxyPrep Body Fluid Viral DNA/RNA Miniprep Kit	250 preps	AP-MN-BF-VNA-250

AxyPrep™ PCR Clean-Up Kit

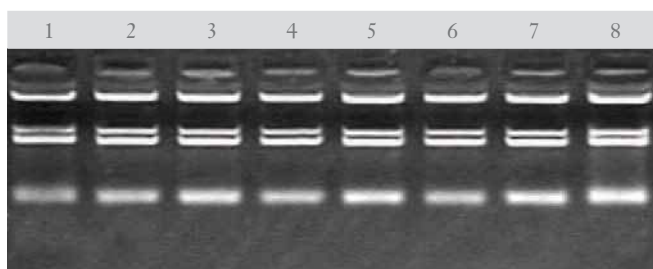
The AxyPrep PCR Clean-Up Kit employs a special Binding Solution in combination with an AxyPrep spin column to achieve high selectivity and recovery of DNA fragments. This product is designed to purify DNA fragments > 75 nt/bp from PCRs and other enzymatic reactions, with an expected recovery of 70-90%. It is not necessary to remove mineral oil overlays from the PCRs before purification. This protocol will remove unincorporated primers (<50 nt), enzymes and unlabeled and fluorescent dye-labeled mononucleotides.

- Rapid spin and vacuum protocols
- Efficient purification of 75 bp-10 Kb amplicons
- No alcohol precipitation
- Up to 90% recovery
- Removal of unincorporated primers < 50 nt
- Maintains integrity of DNA fragments
- Purified DNA fragments are suitable for many downstream applications



Analysis of PCR products before (1,3,5,7) and after (2,4,6,8) purification with the AxyPrep PCR Clean-Up Kit. Run on a 1.6% agarose gel.

Lane 1, 2	5 Kb PCR product
Lane 3, 4	1 Kb PCR product
Lane 5, 6	500 bp PCR product
Lane 7, 8	100 bp PCR product



Analysis of PCR products before (100%) and after (1-8) purification with the AxyPrep PCR Clean-Up Kit. 50% = 50% PCR product recovery and 100% = 100% recovery. Run on a 1.6% agarose gel.

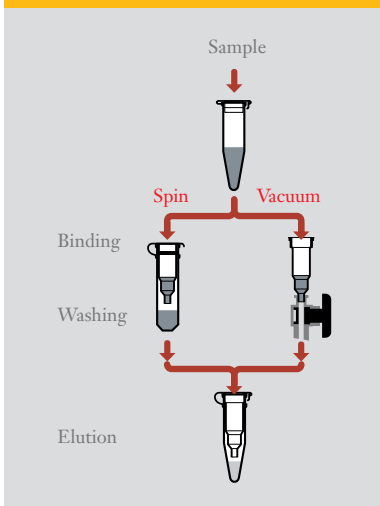
Lane 1-8	Each lane contains mixed 5 Kb, 750 bp, 500 bp and 100 bp DNA fragments
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Applications

- DNA Sequencing
- Restriction digestion
- In vitro transcription
- Ligation

Overview



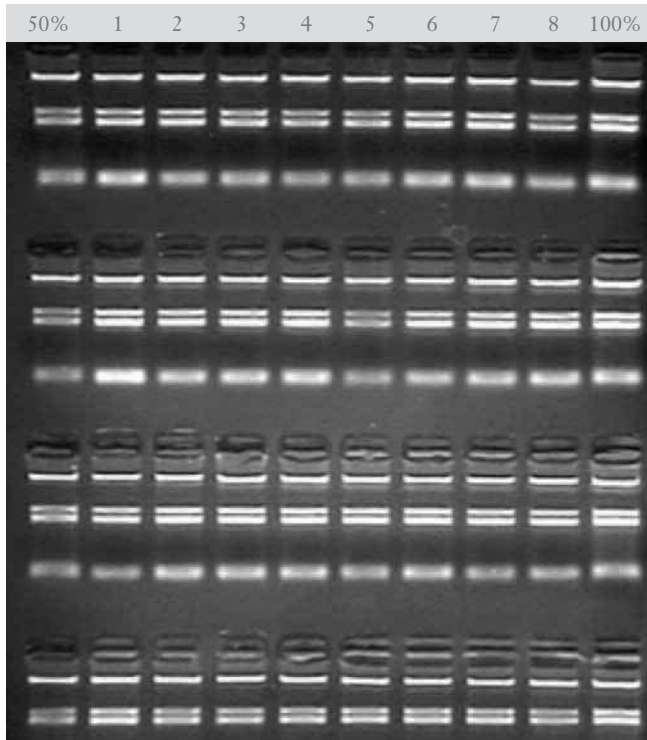
SAMPLE PREP

Filtration Kit	Kit Size	Cat. No.
AxyPrep PCR Clean-Up Kit	4 preps	AP-PCR-4
AxyPrep PCR Clean-Up Kit	50 preps	AP-PCR-50
AxyPrep PCR Clean-Up Kit	250 preps	AP-PCR-250

AxyPrep™ 96 PCR Clean-Up Kit

The AxyPrep-96 PCR Clean Up Kit employs a special Binding Solution in combination with an optimized 96-well plate to purified single and double-stranded DNA >75 nt/ bp from PCRs and other enzymatic reactions, with an expected recovery of 70-90%. It is not necessary to remove mineral oil overlays from the PCRs before purification. This protocol will remove unincorporated primers (<50 nt), enzymes and unlabeled and fluorescent dye-labeled mononucleotides.

- ▶ Rapid spin and vacuum protocols
- ▶ Efficient purification of 75 bp-10 Kb amplicons
- ▶ No alcohol precipitation
- ▶ Up to 90% recovery
- ▶ Purified DNA fragments are suitable for many downstream applications



Analysis of PCR products before (100%) and after (1-8) purification with the AxyPrep PCR Clean-Up Kit. 50% = 50% PCR product recovery and 100% = 100% recovery. Run on a 1.6% agarose gel.

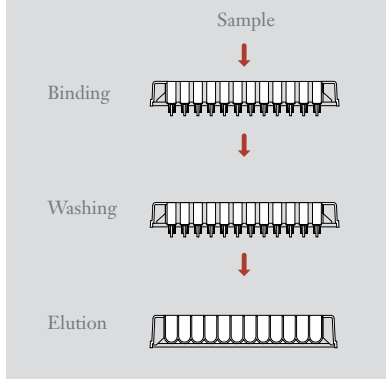
Lane 1-8 Each lane contains mixed 5 Kb, 750 bp, 500 bp and 100 bp DNA fragments



Applications

- DNA Sequencing
- Restriction Digestion
- In Vitro Transcription
- Ligation

Overview

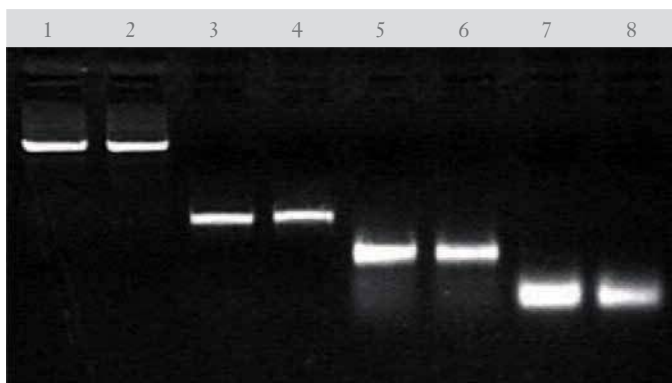


Filtration Kit	Kit Size	Cat. No.
AxyPrep 96 PCR Clean-Up Kit	1x96 preps	AP-96-PCR-1
AxyPrep 96 PCR Clean-Up Kit	4x96 preps	AP-96-PCR-4
AxyPrep 96 PCR Clean-Up Kit	24x96 preps	AP-96-PCR-24

AxyPrep™ DNA Gel Extraction Kit

The AxyPrep DNA Gel Extraction Kit employs optimized gel solubilization and binding buffers reagents in combination with a convenient spin column to purify DNA fragments from either TAE or TBE agarose gels (regular and low-melt). DNA fragments in a size range of 75 nt/bp up to 10 Kb* can be efficiently recovered. Depending upon the length of the DNA fragment, the recovery rate is approximately 60-85%. The unique buffer formulation ensures complete gel solubilization while also protecting the DNA fragments against damage and degradation. DNA fragments purified by this method are full-length with high biological activity. These fragments are suitable for all routine molecular biology applications, such as ligation, in vitro transcription, PCR, sequencing, etc.

- Rapid spin and vacuum protocols
- Efficient purification of 75 bp-10 Kb DNA fragments
- No alcohol precipitation
- Typical yields of up to 85%
- Purified DNA fragments are suitable for many downstream applications



Analysis of PCR product recovery after purification with the AxyPrep DNA Gel Extraction Kit.

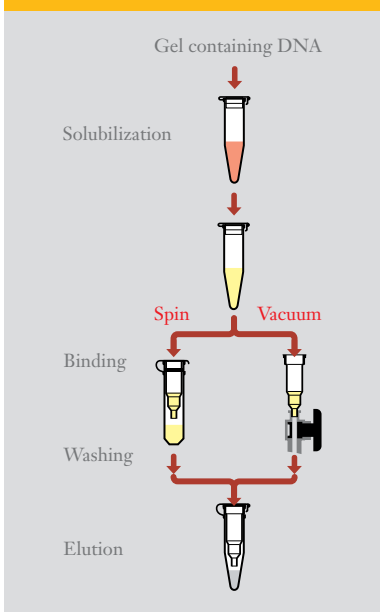
Lane 1	5 Kb DNA fragment, no extraction
Lane 2	5 Kb DNA fragment, after extraction
Lane 3	1 Kb DNA fragment, no extraction
Lane 4	1 Kb DNA fragment, after extraction
Lane 5	500 bp DNA fragment, no extraction
Lane 6	500 bp DNA fragment, after extraction
Lane 7	100 bp DNA fragment, no extraction
Lane 8	100 bp DNA fragment, after extraction



Applications

Routine Molecular Biology
 DNA Sequencing
 In Vitro Transcription
 PCR
 Ligation

Overview



* Factors such as fragment length and gel composition can influence the percent recovery of DNA fragments.

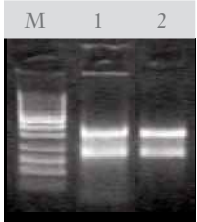
Filtration Kit	Kit Size	Cat. No.
AxyPrep DNA Gel Extraction Kit	4 preps	AP-GX-4
AxyPrep DNA Gel Extraction Kit	50 preps	AP-GX-50
AxyPrep DNA Gel Extraction Kit	250 preps	AP-GX-250

AxyPrep™ Multisource Total RNA Miniprep Kit

The AxyPrep Multisource Total RNA Miniprep Kit is designed to produce up to 80 µg of highly purified total cellular RNA from a wide array of different starting material types, without the use of proteinase or organic extractions. A special precipitation step removes cellular debris and most gDNA, eliminating the opportunity for column clogging and increasing both RNA binding capacity (yield) and purity. The RNA is bound to a mini spin/vacuum column for washing and desalting, using vacuum. The RNA produced by this Kit is exceptionally pure and highly intact and is suitable for the most demanding applications.*

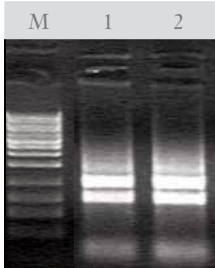
- ▶ Rapid spin and vacuum protocols
- ▶ For animal tissues, plants tissues, cultured cells, bacteria, yeast and filamentous fungi
- ▶ No column clogging
- ▶ No organic extraction or proteinase digestion
- ▶ Up to 80 µg of highly intact, highly purified total cellular RNA

Mouse Liver



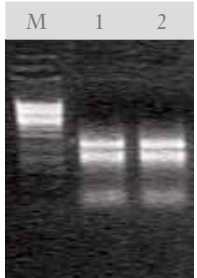
20 mg of fresh mouse liver was used for each sample. Samples were flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 µL TE and 4 µL of each sample was loaded per gel.

Yeast



50 mg of yeast paste was used with each kit sample. Samples were flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 µL TE and 4 µL of each sample was loaded per gel.

Corn Leaves



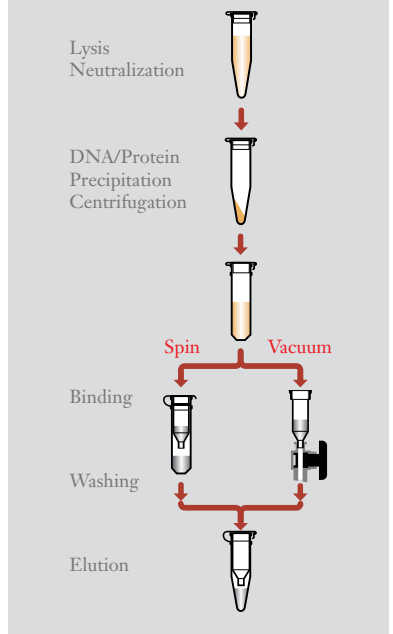
50 mg of corn leaves was used for each prep. Samples were flash frozen with liquid nitrogen and disrupted using a mortar and pestle. Purification was carried out using reagents and protocol supplied by each kit manufacturer. Each sample was eluted with 100 µL TE and 4 µL of each sample was loaded per gel.



Applications

Extraction of RNA from animal tissues, plant tissues, cultured cells, bacteria, yeast, and filamentous fungi

Overview



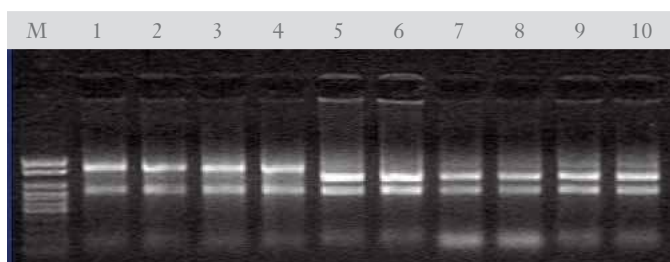
* Applications which are sensitive to small amounts of residual gDNA may require additional steps to digest and remove these traces of gDNA.

Filtration Kit	Kit Size	Cat. No.
AxyPrep Multisource RNA Miniprep Kit	4 preps	AP-MN-MS-RNA-4
AxyPrep Multisource RNA Miniprep Kit	50 preps	AP-MN-MS-RNA-50
AxyPrep Multisource RNA Miniprep Kit	5x50 preps	AP-MN-MS-RNA-250

AxyPrep™ Multisource Total RNA Midiprep and Maxiprep Kits

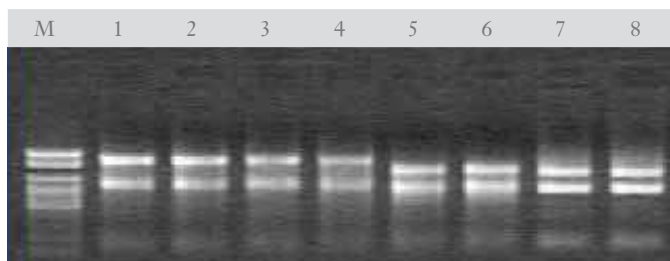
The AxyPrep Multisource Total RNA Midiprep and Maxiprep Kit are designed to produce up to 1 mg (Midi) and 2 mg (Maxi) of highly purified total cellular RNA from a wide array of different starting material types, without the use of proteinase or organic extractions. A special precipitation step removes cellular debris and most gDNA, eliminating the opportunity for column clogging and increasing both RNA binding capacity (yield) and purity. The RNA is bound to a mini spin/vacuum column for washing and desalting, using vacuum. The RNA produced by this Kit is exceptionally pure and highly intact and is suitable for the most demanding applications.* A vacuum manifold and vacuum source are required for the Midiprep Kit.

- Rapid spin and vacuum protocols
- For animal tissues, plants tissues, cultured cells, bacteria, yeast and filamentous fungi
- No column clogging
- No organic extraction or proteinase digestion
- Up to 1 mg and 2 mg respectively of highly purified total RNA



RNA purified with the AxyPrep Multisource Total RNA Midiprep Kit. Purified RNA eluted in 300 μ L TE Buffer and 1 μ g of sample loaded per lane.

M	Axygen 100 bp DNA Ladder
Lane 1, 2	200 mg Rat Liver (duplicate samples)
Lane 3, 4	300 mg Rat Brain
Lane 5, 6	500 mg Spinach Root
Lane 7, 8	500 mg Corn Leaves
Lane 9, 10	2x10 ⁸ <i>S. Cerevisiae</i>



RNA purified with the AxyPrep Multisource Total RNA Maxiprep Kit. Purified RNA eluted in 2 mL TE Buffer and 1 μ g of sample loaded per lane.

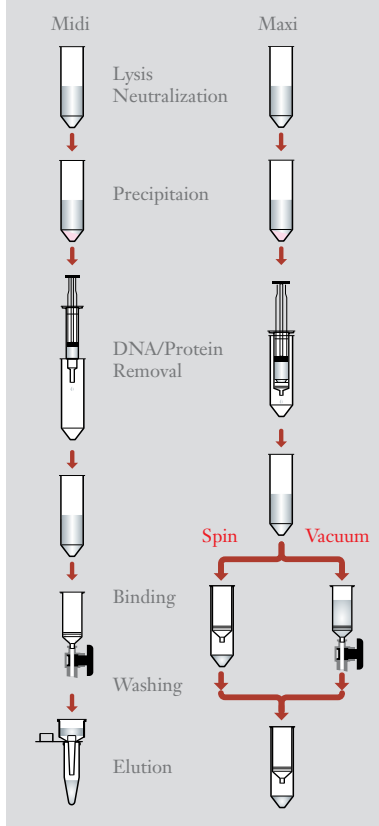
M	Axygen 100 bp DNA Ladder
Lane 1, 2	800 mg Rat Liver (duplicate samples)
Lane 3, 4	800 mg Rat Kidney
Lane 5, 6	1.3 g Holly Leaves
Lane 7, 8	4x10 ¹⁰ <i>E. Coli</i>



Applications

Extraction of RNA from animal tissues, plant tissues, cultured cells, bacteria, yeast, and filamentous fungi

Overview



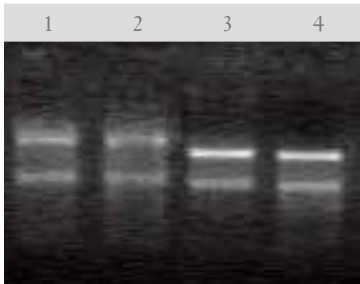
* Applications which are sensitive to small amounts of residual gDNA may require additional steps to digest and remove these traces of gDNA.

Filtration Kits	Kit Size	Cat. No.
AxyPrep Multisource Total RNA Midiprep Kit	2 preps	AP-MD-MS-RNA-2
AxyPrep Multisource Total RNA Midiprep Kit	10 preps	AP-MD-MS-RNA-10
AxyPrep Multisource Total RNA Midiprep Kit	25 preps	AP-MD-MS-RNA-25
AxyPrep Multisource Total RNA Maxiprep Kit	2 preps	AP-MX-MS-RNA-2
AxyPrep Multisource Total RNA Maxiprep Kit	10 preps	AP-MX-MS-RNA-10
AxyPrep Multisource Total RNA Maxiprep Kit	25 preps	AP-MX-MS-RNA-25

AxyPrep™ Blood Total RNA Miniprep Kit

The AxyPrep Blood Total RNA Miniprep Kit is designed to process up to 400 µL of anticoagulated whole blood per prep. Red Blood Cells (RBCs) are removed using a special lysis buffer. Following White Blood Cell (WBC) lysis, genomic DNA (gDNA) and protein are removed via precipitation, which significantly improves the yield and purity of the total RNA sample. The carryover of gDNA is greatly reduced and the opportunity for column clogging is eliminated, ensuring optimal consistency between preps. The mini spin/vacuum column allows samples to be processed using either a centrifuge or vacuum manifold. Each miniprep column will bind up to 100 µg of total cellular RNA.

- ▶ Rapid spin and vacuum protocols
- ▶ No column clogging
- ▶ Dramatic reduction in DNA carryover
- ▶ Higher yields, higher purity
- ▶ Highly intact total RNA suitable for all applications



Total RNA purified with the AxyPrep Blood Total RNA Miniprep Kit. Purified RNA eluted in 60 µL TE Buffer and 8 µL of sample loaded per lane.

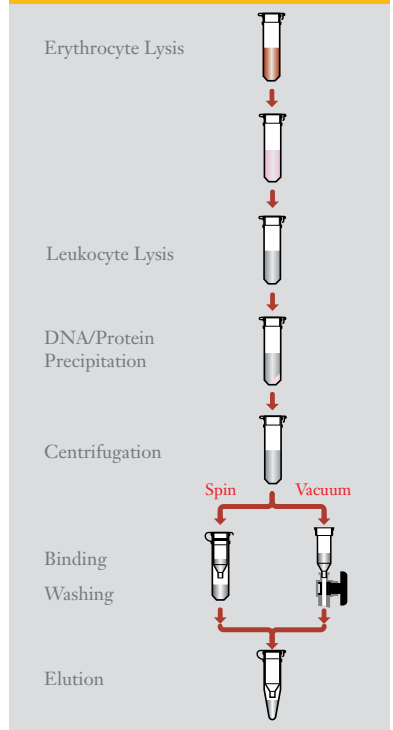
Lane 1, 2	200 µL Porcine Blood
Lane 3, 4	200 µL Mouse Blood



Applications

Extraction of RNA from animal tissues, plant tissues, cultured cells, bacteria, yeast, and filamentous fungi

Overview



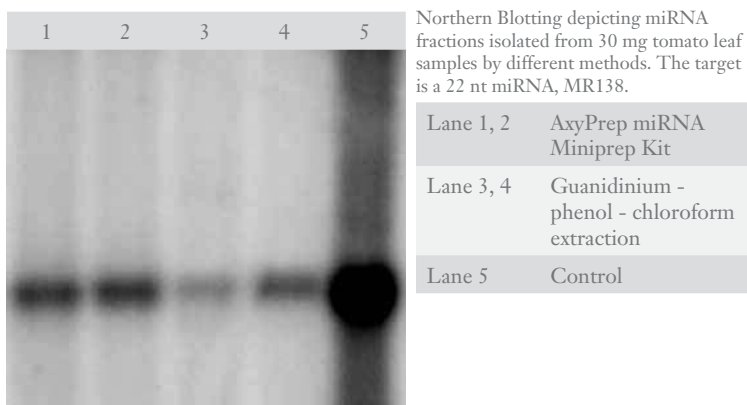
* Applications which are sensitive to small amounts of residual gDNA may require additional steps to digest and remove these traces of gDNA

Filtration Kit	Kit Size	Cat. No.
AxyPrep Blood RNA Miniprep Kit	4 preps	AP-MN-BL-RNA-4
AxyPrep Blood RNA Miniprep Kit	50 preps	AP-MN-BL-RNA-50

AxyPrep™ Micro RNA (miRNA) Miniprep Kit

The AxyPrep miRNA Miniprep Kit represents a new approach for purification of Micro RNA (miRNA) directly from animal or plant tissue and cultured cells. It produces a purified cellular RNA subfraction which is highly enriched for lower molecular weight species, such as miRNA and small interfering RNAs (siRNAs). This kit is designed to eliminate the problems associated with other spin column type RNA kits, such as column clogging and incomplete purification. Proteins and genomic DNA (gDNA) are precipitated and removed from the cell lysate. Then, larger RNAs, such as mRNA, 18s and 28s rRNA and residual DNA are removed by binding to a spin/vacuum column. miRNA and siRNAs remain unbound and are recovered by the addition of isopropanol and centrifugation.

- Rapid spin and vacuum protocols
- For animal tissues, plants tissues, cultured cells
- No column clogging
- No organic extraction or proteinase digestion
- Enriches for miRNAs and siRNAs



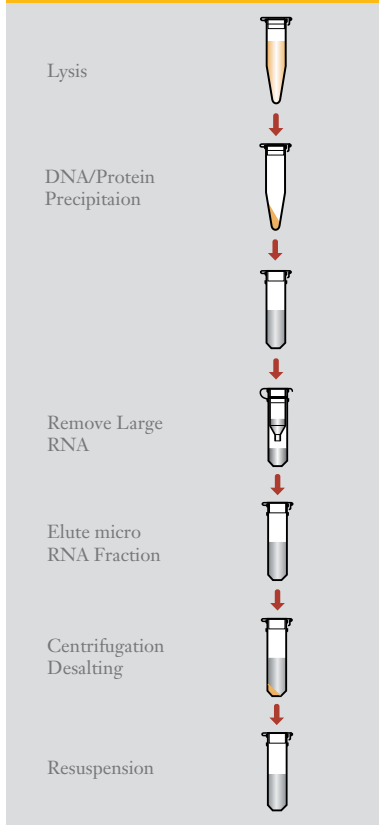
Applications

Northern Blotting

Extraction of RNA from animal tissues, plant tissues, and cultured cells

Applications which are sensitive to small amounts of residual gDNA may require additional steps to digest and remove these traces of gDNA

Overview



Filtration Kit	Kit Size	Cat. No.
AxyPrep Micro RNA (miRNA) Miniprep Kit	4 preps	AP-MN-MIRNA-4
AxyPrep Micro RNA (miRNA) Miniprep Kit	50 preps	AP-MN-MIRNA-50
AxyPrep Micro RNA (miRNA) Miniprep Kit	5x50 preps	AP-MN-MIRNA-250

AxyVac™ Vacuum Manifold

The AxyVac Vacuum Manifold System provides a complete solution for filtration type sample purification. It is designed to accommodate a wide variety of different columns and SBS-format, 96-well and 384-well plates. The AxyVac is constructed of durable, easy-to-clean materials. The manifold base is injection molded ABS plastic. The manifold top and middle support are molded polycarbonate. The 96 well plate support is constructed of stainless steel. These materials offer exceptional resistance against degradation. The high-clarity polycarbonate components allow progression of the various filtration processes to be monitored visually.

- Single manifold for BOTH column-based and plate-based sample preps
- Integrated controls for vacuum regulation
- Constructed of durable, long-lasting materials



AxyVac with 96 well microplate

Applications

- Filtration-type Sample Purification
- Column-based Sample Prep
- Plate-based Sample Prep

Components

The AxyVac vacuum manifold comes complete with all components* required to perform sample preparation with both columns and 96 well or 384 well plates. Components provided:

- Manifold base
- Manifold top
- Middle support
- Plate support
- Block support
- Waste reservoir

* The customer must supply tubing to connect the vacuum manifold to the vacuum source.

AxyVac	Contents	Cat. No.
AxyVac Vacuum Manifold System	Manifold Base, Manifold Top, Block Support, Middle Support and Plate Adapter	AP-VM

Axygen DNA Markers

The 100 bp DNA Ladder contains 11 discrete DNA fragments ranging in size from 100 bp to 3,000 bp. This marker is ideal for the size determination of PCR products. Two ready-to-use DNA size markers for gel electrophoresis, the 100 bp Ladder and 1 Kb Ladder represent the two most popular markers used for DNA fragment size determination. These markers are formulated to run accurately and to provide crisp band patterns. The two markers require no additional preparation and contain bromophenol blue for ease of use. Both markers are supplied at a concentration of 50 µg/500 µL (0.1 µg/µL).

The 1 kb DNA Ladder contains 13 discrete DNA fragments ranging in size from 300 bp to 10,000 bp. This marker is ideal for the size determination of digested DNA. Two ready-to-use DNA size markers for gel electrophoresis, the 100 bp Ladder and 1 Kb Ladder represent the two most popular markers used for DNA fragment size determination. These markers are formulated to run accurately and to provide crisp band patterns. For ease of use, the two markers require no additional preparation and contain bromophenol blue dye. Both markers are supplied at a concentration of 50 µg/500 µL (0.1 µg/µL).

The Low, High and Broad Range Markers offer a wide sizing range from 125 bp -10,000 bp. These three markers are supplied at a concentration of 50 µg/500 µL (0.1 µg/µL). Markers are preloaded with bromophenol blue dye and are supplied ready-to-use. The markers are robust and can be used for fast electrophoresis run (10-15 minutes).

- ▶ Ready-to-use
- ▶ Crisp band patterns
- ▶ Includes bromophenol blue dye
- ▶ Stable at room temperature



Applications

Sizing of wide range of DNA fragments

Specifications

100 bp and 1 Kb Ladders

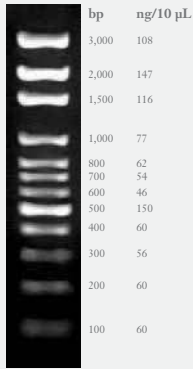
- 500 µL per vial
- 0.1 µg/µL concentration
- Each vial is sufficient for 100 lanes
- Ready-to-use
- Contains bromophenol blue dye

Low Range, High Range, and Broad Range Ladders

- 600 µL per vial
- 0.1 µg/µL concentration
- Recommended loading of 5-10 µL per lane
- Ready-to-use
- Contains bromophenol blue dye

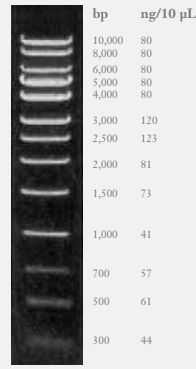
100 bp Ladder DNA Marker (100 - 3,000 bp)

The 100 bp DNA Ladder contains 11 discrete DNA fragments ranging in size from 100 bp to 3,000 bp. This marker is ideal for size determination of PCR products.



1 Kb Ladder DNA Marker (100 - 3,000 bp)

The 1 Kb DNA Ladder contains 13 discrete DNA fragments ranging in size from 300 bp to 10,000 bp. This marker is ideal for size determination of digested DNA.



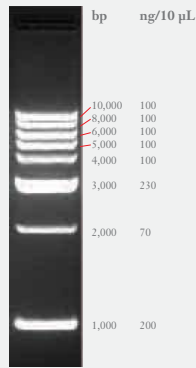
Broad Range Marker (250 - 8,000 bp)

The Broad Range Marker has 11 discrete fragments.



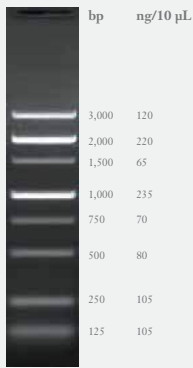
High Range Marker (1,000 - 10,000 bp)

The High Range Marker has 8 discrete fragments.



Low Range Marker (125 - 3,000 bp)

The Low Range Marker has 9 discrete fragments.



Quality Control

Each lot is tested under appropriate electrophoresis conditions. The DNA concentration is determined spectrophotometrically and the absence of nucleases is confirmed by appropriate tests. Temperature stability is confirmed by burn-in tests where the DNA marker is subject to storage at 65°C and 95% humidity for 2 weeks.

DNA Markers

100 bp DNA Ladder

Kit Size

500 µL

Cat. No.

M-DNA-100BP

1 kb DNA Ladder

500 µL

M-DNA-1KB

DNA Ladder, Broad Range 250 bp - 8 Kp

600 µL

M-DNA-BR

DNA Ladder, High Range 1 Kb - 10 Kp

600 µL

M-DNA-HR

DNA Ladder, Low Range 125 bp - 3 Kp

600 µL

M-DNA-LR

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Resistance Rating on a Scale from A (Excellent) to D (Poor)

Chemical	% Conc.	Resistance at 20°C	Resistance at 60°C
Acetic acid (glacial)	97	A	B
Acetic anhydride		B	B
Acetaldehyde		B	D
Acetone	100	A	B
Acetonitrile		C	D
Acetophenone	100	B	B
Adipic acid		A	A
Aluminum chloride		A	A
Ammonia (aqueous)	30	A	A
Ammonium acetate	satd.	A	A
Ammonium carbonate	satd.	A	A
Ammonium chloride	satd.	A	A
Ammonium fluoride	20	A	A
Ammonium hydroxide	10	A	A
Ammonium nitrate	satd.	A	A
Ammonium sulfate	satd.	A	A
Ammonium sulfide	satd.	A	A
Amyl acetate	100	C	D
Amyl alcohol	100	A	B
Amyl chloride	100	B	B
Aniline	100	B	B
Aromatic hydrocarbons		D	D
Benzaldehyde		D	D
Benzene		D	D
Benzoic acid	100	B	C
Benzl acetate	satd.	A	B
Benzyl alcohol		A	A
Boric acid		A	A
Bromobenzene		C	D
Butadiene		C	D
Butyl acetate		C	D
Butyl alcohol	100	C	D
Butyric acid		C	D
Calcium chloride	satd.	A	A
Calcium hypochlorite bleach		A	A
Carbon disulfide		A	A
Carbon Tetrachloride		D	D
Carbonic acid	100	C	D
Chloroacetic acid	100	D	D
Chlorobenzene		C	D
Chloroform	100	D	D
Chlorosulfonic acid	100	D	D
Chromic acid	50	D	D
Citric acid		D	D
Cyclohexane	satd.	D	D
Cyclohexanol		C	D
Decalin		C	D
Detergents		A	A
Dibutyl phthalate		A	B
Dichlorobenzene		C	D
Dichloroethylene		D	D
Diethyl benzene	100	C	D
Diethyl ether		B	C
Diethylene glycol		B	D

Chemical	% Conc.	Resistance at 20°C	Resistance at 60°C
Dimethyl acetamide	100	A	A
Dimethylsulfoxide (DMSO)		A	A
Ethyl acetate		B	C
Ethyl alcohol	96	A	B
Ethyl benzene	40	C	D
Ethyl chloride		B	D
Ethylene chloride		C	D
Ethylene dichloride		B	C
Ethylene glycol	100	B	N/A
Formaldehyde	40	A	A
Formic acid	100	A	B
Glutaraldehyde	20	A	A
Hexane		C	C
Hydrobromic acid		D	D
Hydrochloric acid	50	B	C
Hydrofluoric acid	40	A	B
Hydrogen peroxide	10	A	A
Hydrogen sulfide	3	A	A
Lactic acid		B	C
Magnesium chloride	satd.	A	A
Magnesium sulfate	satd.	A	A
Methyl acetate		D	D
Methyl alcohol	10	B	C
Methylene chloride	100	D	D
Methyl ethyl ketone	100	D	D
Methyl propyl ketone		B	C
Nitric acid	satd.	D	D
Nitrobenzene		B	C
Perchloroethylene		D	D
Phenol	95+	B	D
Phosphoric acid	100	C	D
Potassium bromide		A	B
Potassium chloride	satd.	A	A
Potassium fluoride	satd.	A	A
Potassium hydroxide		A	A
Propionic acid		A	B
Propyl alcohol		A	B
Propylene glycol		A	A
Silicone oil		A	A
Sodium acetate	100	A	A
Sodium carbonate	satd.	A	A
Sodium chloride		A	A
Sodium hydroxide	satd.	A	A
Sodium hypochlorite	satd.	B	B
Sulfuric acid	satd.	C	D
Sulfuric acid	98	C	D
Tetralin	10	C	D
Toluene	100	C	C
Trichloroethane	100	B	C
Triethylene glycol		D	D
Trifluoroacetic acid (TFA)	20	B	C
Xylene	100	C	D
Zinc chloride		A	A
Zinc sulfate		A	A

The above chemical resistance chart is meant to be used as a guide only. Temperature, exposure time and functional conditions affect resistance and can vary for each application. Axgyen highly recommends users evaluate products under their own conditions prior to use. Axgyen does not warrant (neither expressed or implied) that the information in this chart is accurate or that any material is suitable for any purpose.

Maximum RCF and RPM (G-Force)**PCR Tubes**

PCR-02, PCR-02D, PCR-05, PCR-0208

4,000 RCF**PCR Microplates***

PCR-24, PCR-32, PCR-48, PCR-96, PCR-96-MB, PCR-96-FLT, PCR-96-LP-FLT, PCR-96-SG, PCR-96-AB, PCR-96-LP-AB, PCR-96M2-HS, PCR-96-FS, PCR-384, PCR-384M2, PCR-384-RGD, PCR-384-55

4,000 RPM**Assay and Deep Well Microplates***

P-384-120SQ-C, P-384-240SQ-C, P-DW-11-C, P-DW-20-C, P-DW-500-C, P-2ML-SQ-C, P-5ML-48-C, P-96-450R-C, P-96-450V-C

4,000 RPM**Microcentrifuge Tubes**MCT-060[†], MCT-175[†], MCT-150[†], MCT-200[‡]**14,000 RCF****Screw Cap Tubes***

SCT-050, SCT-050-SS, SCT-150, SCT-150-SS, SCT-200, SCT-200-SS, SCT-45

20,000 RCF

Products filled with distilled water and spun at 20°C for 20 minutes with properly supportive rotor inserts. Your results may vary depending on sample type and volume.

* This product tested with IPA Solution

† This product tested with chloroform

‡ This product tested with 50/50 water and chloroform

Unit Conversion Reference Table

Unit	Symbol	Equivalent
nanoliter	nL	1 nL = 10 ⁹ L
microliter	µL	1 µL = 10 ⁻⁶ L
milliliter	mL	1 mL = 10 ⁻³ L
picogram	pg	1 pg = 10 ⁻¹² g
nanogram	ng	1 ng = 10 ⁻⁹ g
microgram	µg	1 µg = 10 ⁻⁶ g
milligram	mg	1 mg = 10 ⁻³ g
kilogram	kg	1 kg = 10 ³ g

Autoclaving Guideline for Plastics

To ensure successful steam sterilization of your plastic labware, adhere to the following guidelines. Autoclave all plastic consumable at 121°C for 15 minutes, 15 psi/1 atm. Do not use a dry cycle as this may cause deformation or weakening of the plastic. Allow temperature within the autoclave to return to at least 80°C before removing product. NOT ALL PRODUCTS ARE AUTOCLAVABLE.

RPM vs. RCF

Revolutions per minute (RPM) is the speed that your rotor spins in your centrifuge. RPM is specific to individual centrifuge brands and rotor sizes.

Relative centrifugal force (RCF) is better known as g-force. This indicates the actual force resulting from the spinning action in the centrifuge. It is g-force that drives sample separation.

The following equation can be used to convert RPM to RCF for any model centrifuge.

$$\text{RCF} = 0.00001118 \times \text{radius of rotation (cm)} \times \text{RPM}^2$$

Note: Radius of rotation is given by the distance of the furthest most point of the tube from the axis of rotation. Please refer to your centrifuge user guide for radius value.

Plate Volume Reference

Cat. No.	Volume to Brim of Well	Working Volume	Volume with AxyMat™
PCR-96-LP-FLT-C	210 µL	180 µL	100 µL
PCR-96-C	350 µL	300 µL	240 µL
PCR-96-FLT-C	330 µL	300 µL	270 µL
PCR-96-LP-AB-C	220 µL	190 µL	120 µL
PCR-96-LC480-C-NF	210 µL	190 µL	120 µL
PCR-96-AB-C	330 µL	300 µL	220 µL
PCR-96-HS-C	340 µL	300 µL	230 µL
PCR-96-SG-C	320 µL	280 µL	240 µL
PCR-96-FS-C	220 µL	190 µL	120 µL
PCR-384-LC480-C-NF	50 µL	45 µL	35 µL
PCR-384	50 µL	45 µL	35 µL
PCR-384-RGD-C	42 µL	35 µL	30 µL
PCR-384-55-C	55 µL	50 µL	40 µL
PCR-384M2-C	50 µL	45 µL	35 µL
P-384-120SQ-C	135 mL	125 mL	90 mL
P-384-240SQ-C	255 mL	240 mL	210 mL
P-5ML-48-C	4.9 mL	4.6 mL	4.0 mL
P-DW-10ML-24-C	11 mL	10 mL	9.0 mL
P-1ML-SQ-C	1.6 mL	1.4 mL	1.1 mL
P-2ML-SQ-C	2.3 mL	2.2 mL	1.9 mL
P-DW-11-C	1.5 mL	1.1 mL	0.95 mL
P-DW-12-HC	1.35 mL	1.25 mL	1.1 mL
P-DW-20	1.9 mL	1.8 mL	1.5 mL
P-DW-500-C	610 µL	560 µL	450 µL
P-96-450R-C	550 µL	450 µL	350 µL
P-96-450V-C	500 µL	450 µL	350 µL

Volume to Brim of Well = maximum volume of fluid that can be placed in each well without spilling out

Working Volume = the comfortable working volume of each well of the plate

For additional product or technical information, visit us at www.axygen.com or call 1-800-4-AXYGEN.

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