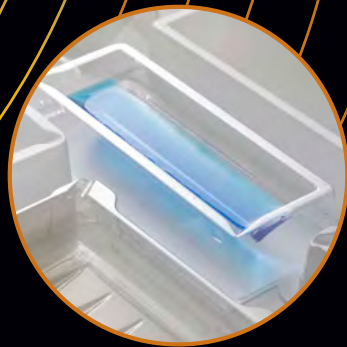


TIPS



PLATES



RESERVOIRS



TUBES

A BETTER TIP™



Xtreme Quality™ means delivering excellence all the way from the manufacturing floor to the lab bench. Each interaction with Biotix, whether with a Sales Representative in the field, or with the Customer Care Department on the phone, is completed with excellence in mind. It is not enough to win the sale at Biotix. We want the product and your experience with us to be superior to any other in the industry. That is our commitment to you.

*-The Biotix Team*

- **ISO 9001:2008 Certified**
- **FDA registered for Medical Device Assembly (Class I & II)**
- **American Society for Quality (ASQ), San Diego Chapter Member**
- **Society for Laboratory Automation & Screening – Industry Sponsor**

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# FLUID INNOVATION

Biotix is the name to trust for your laboratory consumables. Below is a list of the various groundbreaking features in the Biotix product line. Each feature is listed with its benefit and the product family that utilizes that feature.

INNOVATION	FEATURES & BENEFITS	PRODUCT
FLEXFIT™ <i>Patent Pending</i>	A patent pending tip design that reduces the risk of RSD and provides a superior fit	MT
DELTA FILTER™ <i>Patent Pending</i>	The filter that provides instant visual indication of contamination	MT RT
X-RESIN™ <i>Proprietary</i>	Proprietary resin that is naturally low retentive and soft to provide better precision	MT RT
BLADE™ <i>Patent Pending</i>	Unique distal end orifice design that eliminates the need for tip touch off	MT RT
STATIX™ <i>Patent Pending</i>	Exclusive Biotix technology that prevents static build up and draws static away from the tips	RT
CV TESTING <i>Proprietary</i>	Product precision is printed on every pack of pipette tips in the form of CV data	MT RT
SERIAL NUMBERING <i>Patent Pending</i>	A unique serial number and part number are printed in barcode format on each tray of Biotix products which allow for traceability in the lab	MT RT
HIGH ACCURACY POUR SPOUTS <i>Best in industry</i>	Helps recover and distribute liquid better than any other reservoir on the market	RR
LOT SPECIFIC CERTIFICATE <i>1st in industry</i>	All product packs contain a lot specific certificate of assurance for your products	MT RT RR
MULTI-CHANNEL READY <i>Best in industry</i>	Products are designed to work with standard eight or twelve multi-channel pipettors	MT RT RR
ANSI/SBS 1-2004 COMPLIANT	Standardized universal format 127.76 x 85.48 mm (5.0299 x 3.3654 in.)	MT RT RR
BIOREADY™ <i>Best in industry</i>	Every lot of product is certified to be free of key contaminants	MT RT RR
LEAVE NOTHING BEHIND™ <i>Sustainability</i>	Biotix brings a new attitude to the plastics industry through the use of recycled resins and compostable plastics	MT RT RR

MT Manual pipette tips

RR Reservoirs

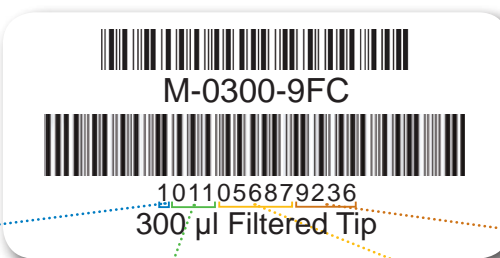
RT Robotic pipette tips

## SUPERIOR TRACEABILITY

Introducing a patent pending feature of the Biotix world-class quality system. During manufacturing, labels are created for each tray that contain a unique barcoded serial number, part number and description. This system offers one thousand times greater traceability over the competition and ensures that quality products reach the laboratory. Within the Biotix serial number is a vast amount of information, here is the key to crack the code:

The first digit is the last digit of the calendar year. This example is 2011.

The next three digits are the Julian calendar day of the year. For our example it is the 11th day of the year January 2011.

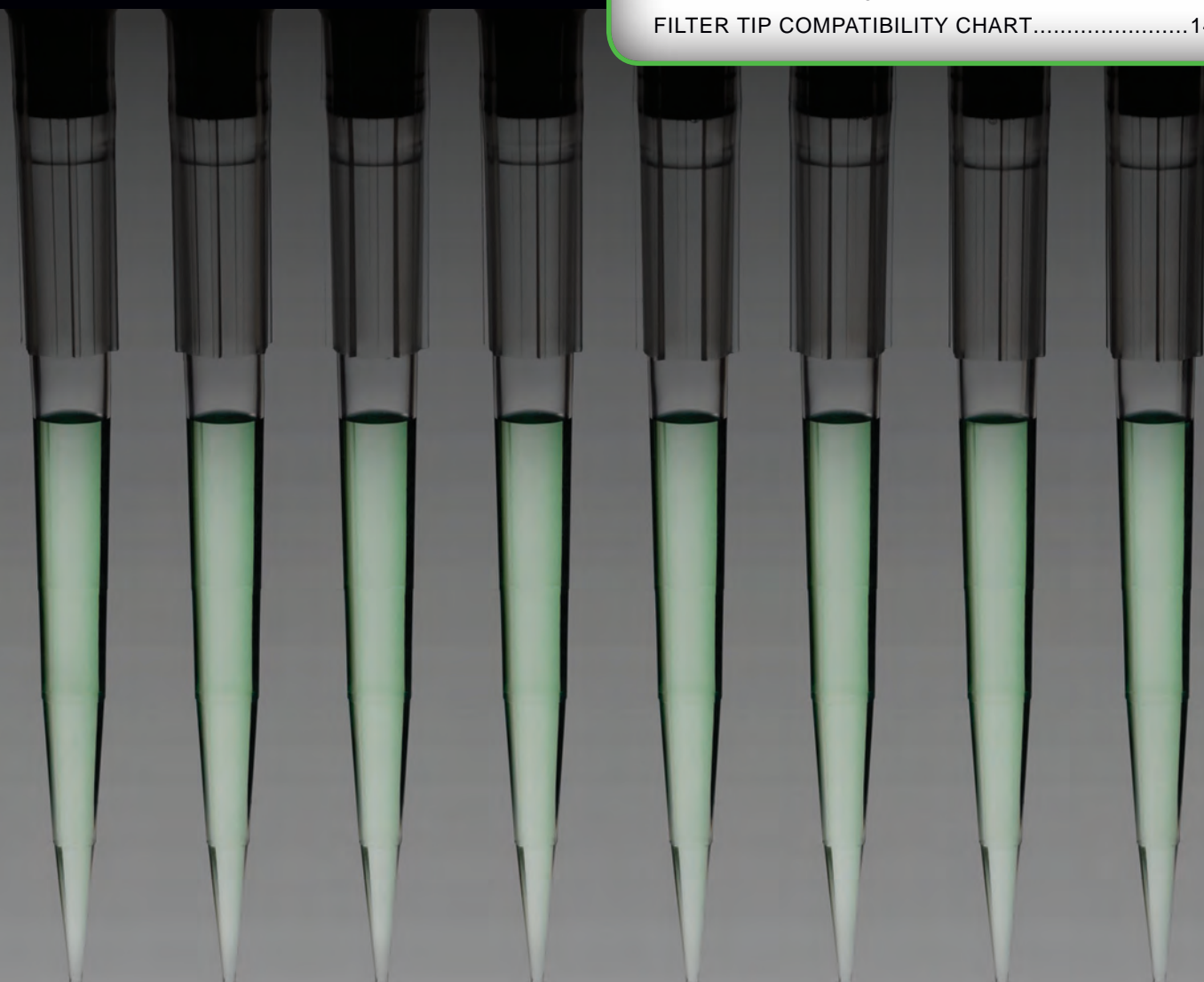


The final 4 digits are the rack identifier. This complete barcode uniquely identifies each rack of Biotix product.

The next five numbers are the lot number.

# MANUAL PIPETTE TIPS

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# A BETTER TIP™

## FLEXFIT™

- Reduces the risk of Repetitive Stress Injuries (RSI)
- Decreased insertion and ejection forces

## X-RESIN™

- Crystal clarity with low sample retention
- Improves CV values

## DELTA FILTER™

- Color change filter provides visual indication of contamination
- Superior aerosol protection



Delta Filter



Activated Delta Filter

## BLADE™

- Engineered to reduce the need for tip touch-off
- Increases precision and accuracy

Distal End Surface Area



Blade




Without Blade

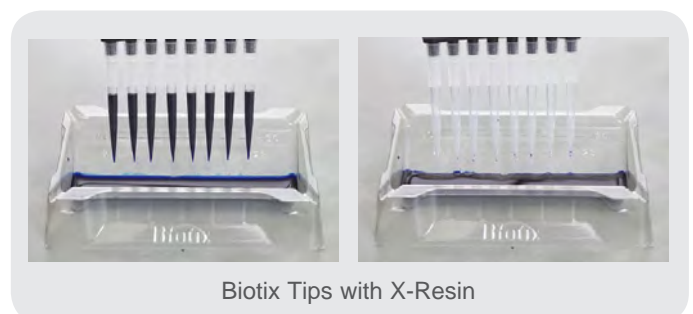
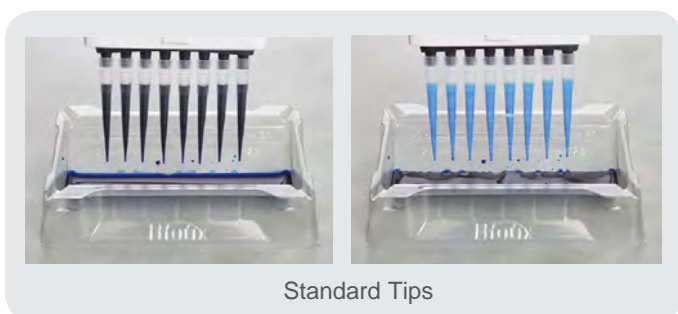


# BIOTIX MANUAL TIPS FEATURING X-RESIN

Biotix manual pipette tips are manufactured with our patented technologies for increased pipetting accuracy and precision.

BIOTIX MANUAL PIPETTE TIPS FEATURING X-RESIN	DESCRIPTION	PACKAGING
613-2813 	10µl, Natural, Racked	10 racks of 96 tips/pack
613-1376 	10µl, Natural, Racked, Pre-sterile	10 racks of 96 tips/pack
613-2814 	10µl, Natural, Racked	10 racks of 96 tips/pack
613-1377 	10µl, Natural, Racked, Pre-sterile	10 racks of 96 tips/pack
613-2815 	200µl, Natural, Racked	10 racks of 96 tips/pack
613-2440 	200µl, Natural, Rack & Stack, Pre-sterile	5 racks of 192 tips/pack
613-2439 	200µl, Natural, Rack & Stack	5 racks of 192 tips/pack
613-1378 	200µl, Natural, Racked, Pre-sterile	10 racks of 96 tips/pack
613-2816 	300µl, Natural, Racked	10 racks of 96 tips/pack
613-1379 	300µl, Natural, Racked, Pre-sterile	10 racks of 96 tips/pack
613-2817 	1250µl, Natural, Racked	10 racks of 96 tips/pack
613-2436 	1250µl, Natural, Racked, Pre-sterile	10 racks of 96 tips/pack

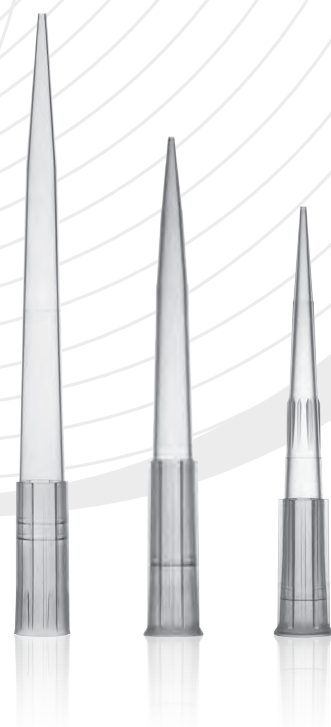
## X-RESIN MULTICHANNEL COMPARISON



# BIOTIX MANUAL TIPS FEATURING CHEM-RESIN

## FEATURING CHEM-RESIN

Working with strong polar solvents or highly electronegative reagents? Biotix Chem-Resin™ provides a solution for working with these challenging reagents. Unlike the ultra-low retention properties of Biotix X-Resin, the Chem-Resin tips have a more neutral surface tension. This reduced hydrophobicity on the surface facilitates low volume draw and drip-free dispense of these classes of chemicals.



BIOTIX MANUAL TIPS FEATURING CHEM-RESIN	DESCRIPTION	PACKAGING
613-2839 	10µl, Natural, Racked	10 racks of 96/pack
613-2831 	10µl, Natural, Racked, Pre-sterile	10 racks of 96/pack
613-2840 	10µl Extended Length, Natural, Racked	10 racks of 96/pack
613-1782 	10µl Extended Length, Natural, Racked, Pre-sterile	10 racks of 96/pack
613-2841 	200µl, Natural, Racked	10 racks of 96/pack
613-2832 	200µl, Natural, Racked, Pre-sterile	10 racks of 96/pack
613-2842 	300µl, Natural, Racked	10 racks of 96/pack
613-2833 	300µl, Natural, Racked, Pre-sterile	10 racks of 96/pack
613-2843 	1250µl, Natural, Racked	10 racks of 96/pack
613-2834 	1250µl, Natural, Racked, Pre-sterile	10 racks of 96/pack



# TIP EJECT RELOAD SYSTEM

## Save Space and Reduce Waste with Biotix Tip Eject™

Tip Eject allows convenient reloading into Biotix tip racks without the use of transfer devices. Transparent packaging allows for easy tip identification, while fully protecting tips from contamination due to contact and environmental particulates. Reload cards are made from 100% recycled polypropylene.



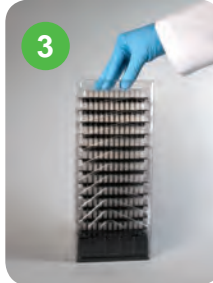
**1**

Remove lower protective cover.



**2**

Align Tip Eject over empty Biotix rack.



**3**

Push down until a "click" is heard and felt, indicating tips are locked into rack.



**4**

Replace over lower protective cover.

### BEST PRACTICES



Load last card into lower protective cover until ready to use.













Remove card from empty rack for next reload.

VWR PART NUMBER		DESCRIPTION	PACKAGING
Biotix Tips featuring X-Resin	613-2818	10µl Tip Eject Reload, X-Resin	20 inserts of 96 tips/pack
	613-1780	10µl Tip Eject Reload, X-Resin, Pre-sterile	20 inserts of 96 tips/pack
	613-2819	10µl Extended Length, Tip Eject Reload, X-Resin	20 inserts of 96 tips/pack
	613-1766	10µl Extended Length, Tip Eject Reload, X-Resin, Pre-sterile	20 inserts of 96 tips/pack
	613-2820	200µl Tip Eject Reload, X-Resin	12 inserts of 96 tips/pack
	613-1778	200µl Tip Eject Reload, X-Resin, Pre-sterile	12 inserts of 96 tips/pack
	613-2821	300µl Tip Eject Reload, X-Resin	10 inserts of 96 tips/pack
	613-1779	300µl Tip Eject Reload, X-Resin, Pre-sterile	10 inserts of 96 tips/pack
	613-2822	1250µl Tip eject Reload, X-Resin	10 inserts of 96 tips/pack
	613-2438	1250µl Tip eject Reload, X-Resin, Pre-sterile	10 inserts of 96 tips/pack
Biotix Tips featuring Chem-Resin	613-2844	10µl Tip Eject Reload, Chem-Resin	20 inserts of 96 tips/pack
	613-2835	10µl Tip Eject Reload, Chem-Resin, Pre-sterile	20 inserts of 96 tips/pack
	613-2845	10µl Extended Length, Tip Eject Reload, Chem-Resin	20 inserts of 96 tips/pack
	613-1777	10µl Extended Length, Tip Eject Reload, Chem-Resin, Pre-sterile	20 inserts of 96 tips/pack
	613-2846	200µl Tip Eject Reload, Chem-Resin	12 inserts of 96 tips/pack
	613-2836	200µl Tip Eject Reload, Chem-Resin, Pre-sterile	12 inserts of 96 tips/pack
	613-2847	300µl Tip Eject Reload, Chem-Resin	10 inserts of 96 tips/pack
	613-2837	300µl Tip Eject Reload, Chem-Resin, Pre-sterile	10 inserts of 96 tips/pack
	613-2848	1250µl Tip Eject Reload, Chem-Resin	10 inserts of 96 tips/pack
	613-2838	1250µl Tip Eject Reload, Chem-Resin, Pre-sterile	10 inserts of 96 tips/pack
Empty Trays for System	613-2823	Empty Tray for Biotix 10µl and 10µl Extended Length Tips	10 trays/pack
	613-1780	Empty Tray for Biotix 10µl and 10µl Extended Length Tips, Pre-sterile	10 trays/pack
	613-2824	Empty Tray for Biotix 200µl and 300µl Tips	10 trays/pack
	613-1781	Empty Tray for Biotix 200µl and 300µl Tips, Pre-sterile	10 trays/pack
	613-2825	Empty Tray for Biotix 1250µl Tips	10 trays/pack
	613-2437	Empty Tray for Biotix 1250µl Tips, Pre-sterile	10 trays/pack

# MANUAL TIPS COMPATIBILITY CHART






Biotix pipette tips are compatible with a broad range of industry leading pipettes. The table below represents compatibility among the more recognized brands on the market. Biotix determines compatibility based on fit and function. Tip fit is determined by the ability to mount and eject Biotix tips onto the pipettor. Function is determined by the ability to calibrate the pipettor within the manufacturer's specifications using Biotix tips. For more information on tip compatibility, visit [www.biotix.com](http://www.biotix.com).

Pipettor Brand	Model	 10µl	 10µl, Extended Length	 200µl	 300µl	 1250µl
<b>Biohit eLine™</b>	5 - 120µl			●		
<b>Biohit mLine™</b>	M10/12		●			
	M100			●	●	
	M200			●	●	
	M300				●	
	M1000					●
	M300 /12				●	
<b>Biohit Proline™</b>	0.5 - 10µl	●	●			
	200 - 1000µl					●
<b>Biohit Proline Plus™</b>	10 - 100µl			●	●	
	2 - 20µl					
	20 - 200µl			●	●	
	10 - 100µl/8			●		
	30 - 300µl/8				●	
<b>Brand Transferpette S™</b>	0.5 - 10µl	●	●			
	2 - 20µl			●		
	10 - 100µl			●		
	20 - 200µl			●	●	
	100 - 1000µl					●
<b>Brand Transferpette Electronic™</b>	20 - 200µl			●		
	15 - 300µl				●	
<b>Capp™</b>	0.5 - 10µl	●	●			
	5 - 50µl			●	●	
	10 - 100µl			●	●	
	30 - 300µl			●	●	
<b>Eppendorf Reference™</b>	0.1 - 2.5µl	●	●			
	0.5 - 10µl	●	●			
	2 - 20µl	●	●	●		
	10 - 100µl			●		
	50 -200µl			●		
	100 - 1000µl					●

Pipettor Brand	Model					
		10µl	10µl, Extended Length	200µl	300µl	1250µl
<b>Eppendorf Research™</b>	0.5 - 10µl	●	●			
	2 - 20µl		●	●		
	10 - 100µl			●	●	
	20 - 200µl			●	●	
	30 - 300µl			●	●	
	10 - 100µl/12			●	●	
	30 - 300µl/12				●	
	100 - 1000µl					●
<b>Eppendorf Research Plus™</b>	0.5 - 10µl	●	●			
	2 - 20µl	●	●	●		
	10 - 100µl			●		
	20 - 200µl			●	●	
	10 - 100µl /12			●		
	100 - 1000µl					●
<b>Eppendorf Research Pro (electronic)™</b>	20 - 300µl/12				●	
<b>Eppendorf Xplorer Plus™</b>	15 - 300µl				●	
	50 - 1000µl					●
<b>Finnpipette™</b>	0.5 - 10µl	●	●			
	2 - 20µl			●		
	5 - 50µl			●	●	
	20 - 200µl			●	●	
	30 - 300µl		●	●	●	
	100 - 1000µl		●	●		●
<b>Finnpipette F1™</b>	0.2 - 2µl		●			
	2 - 20µl		●			
	5 - 50µl/12			●		
	20 - 200µl			●		
	30 - 300µl/12				●	
100 - 1000µl					●	
<b>Finnpipette F2™</b>	2 - 20µl			●		
	5 - 50µl			●		
	10 - 100µl			●		
	20 - 200µl			●		
	100 - 1000µl					●
<b>Finnpipette Digital™</b>	1 - 10µl	●	●			
	20 - 200µl			●		
	50 - 300µl			●	●	
	0.5 - 10µl/8	●	●			
	5 - 50µl/8			●		
	50 - 300µl/8			●	●	

# MANUAL TIPS COMPATIBILITY CHART

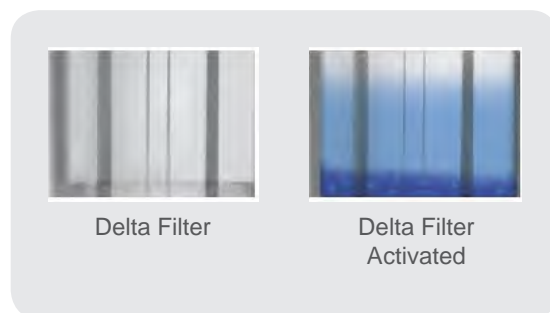
## CONTINUED










Pipettor Brand	Model	 10µl	 10µl, Extended Length	 200µl	 300µl	 1250µl
<b>Gilson™</b>	P2	●	●			
	P10	●	●			
	P20		●	●		
	P100			●		
	P200			●	●	
	P1000					●
<b>Gilson Pipetman Ultra™</b>	U20			●		
	U200			●	●	
<b>Hamilton™</b>	0.2 - 2µl	●	●			
	1 - 10µl	●	●			
	2.5 - 25µl			●		
	10 - 100µl			●	●	
	30 - 300µl				●	
	100 - 1000µl					●
<b>LabNet BioPette E™</b>	100 - 1200µl					●
<b>Nichiryo Nichipet EX™</b>	0.5 - 10µl	●	●			
	2 - 20µl			●		
	10 - 100µl			●		
	20 - 200µl			●	●	
	100 - 1000µl					●
<b>Nichiryo Oxford Benchmate™</b>	0.1 - 2µl	●	●			
	2 - 20µl			●		
	50 - 300µl				●	
<b>Nichiryo Oxford Multimate™</b>	0.5 - 10µl	●	●			
	5 - 50µl			●		
	30 - 300µl			●	●	
<b>Socorex Calibra 822™</b>	1 - 10µl	●	●			
	10 - 100µl			●		
	20 - 200µl			●	●	
	100 - 1000µl					●
<b>VWR Ergonomic High Performance™</b>	2 - 20µl			●	●	
	20 - 200µl			●	●	
	100 - 1000µl					●
<b>VWR Ultra High Performance™</b>	0.1 - 2µl	●	●			
	0.5 - 10µl	●	●			
	2 - 20µl	●	●		●	
	10 - 100µl			●	●	
	20 - 200µl			●	●	
	100 - 1000µl					●

# MANUAL FILTER TIPS

Exclusive to Biotix is proprietary technology called Delta Filter. This technology incorporates a chemically inert, color change compound which not only traps aerosols and absorbs liquids, but turns blue upon contact with contaminants. This feature safeguards critical assays with instant visual detection, and notifies technicians of pipetting errors. Delta Filter is available in all Biotix manual filter tip products.







**You get a better filter. A better fit. A Better Tip™.**



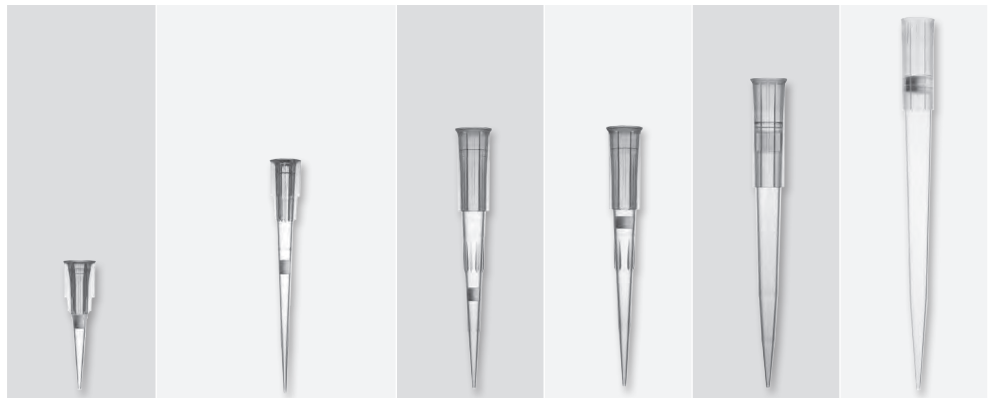
	BIOTIX MANUAL FILTER TIPS	DESCRIPTION	PACKAGING
Biotix Tips featuring X-Resin	732-1429 	10µl Filter Tip, X-Resin, Pre-sterile	10 racks of 96 tips/pack
	732-1430 	10µl Extended Length Filter Tip, X-Resin, Pre-sterile	10 racks of 96 tips/pack
	732-1432 	20µl Filter Tip, X-Resin, Pre-sterile	10 racks of 96 tips/pack
	732-1433 	100µl Filter Tip, X-Resin, Pre-sterile	10 racks of 96 tips/pack
	732-1434 	300µl Filter Tip, X-Resin, Pre-sterile	10 racks of 96 tips/pack
	732-1435 	1250µl Filter Tip, X-Resin, Pre-sterile	10 racks of 96 tips/pack
Biotix Tips featuring Chem-Resin	613-2826 	10µl Filter Tip, Chem-Resin, Pre-sterile	10 racks of 96 tips/pack
	732-1512 	10µl Extended Length Filter Tip, Chem-Resin, Pre-sterile	10 racks of 96 tips/pack
	613-2827 	20µl Filter Tip, Chem-Resin, Pre-sterile	10 racks of 96 tips/pack
	613-2828 	100µl Filter Tip, Chem-Resin, Pre-sterile	10 racks of 96 tips/pack
	613-2829 	300µl Filter Tip, Chem-Resin, Pre-sterile	10 racks of 96 tips/pack
	613-2830 	1250µl Filter Tip, Chem-Resin, Pre-sterile	10 racks of 96 tips/pack

# FILTER TIPS COMPATIBILITY CHART

Biotix filter tips are compatible with a broad range of industry leading pipettes. The table below represents compatibility among the more recognized brands on the market. Biotix determines compatibility based on fit and function. Tip fit is determined by the ability to mount and eject Biotix tips onto the pipettor. Function is determined by the ability to calibrate the pipettor within the manufacturer's specifications using Biotix tips. For more information on tip compatibility, visit [www.biotix.com](http://www.biotix.com).

Pipettor Brand	Model						
		10µl	10µl , Extended Length	20µl	100µl	300µl	1250µl
<b>Biohit eLine™</b>	5 - 120µl				●		
<b>Biohit mLine™</b>	M10 /12		●				
	M100			●	●	●	
	M200			●	●	●	
	M300					●	
	M1000						●
	M300/12					●	
<b>Biohit Proline™</b>	0.5 - 10µl	●	●				
	200 - 1000µl						●
<b>Biohit Proline Plus™</b>	10 - 100µl				●	●	
	2 - 20µl						
	20 - 200µl			●	●	●	
	10 - 100µl /8				●		
	30 - 300µl /8					●	
<b>Brand Transferpette S™</b>	0.5 - 10µl	●	●				
	2 - 20µl			●	●		
	10 - 100µl			●	●		
	20 - 200µl					●	
	100 - 1000µl						
<b>Brand Transferpette Electronic™</b>	20 - 200µl						
	15 - 300µl					●	●
<b>Capp™</b>	0.5 - 10µl	●	●				
	5 - 50µl			●	●	●	
	10 - 100µl				●	●	
	30 - 300µl					●	
<b>Eppendorf Reference™</b>	0.1 - 2.5µl		●				
	0.5 - 10µl	●	●				
	2 - 20µl		●	●	●		
	10 - 100µl				●		
	50 -200µl						
	100 - 1000µl						●











Pipettor Brand	Model	10µl	10µl , Extended Length	20µl	100µl	300µl	1250µl
<b>Eppendorf Research™</b>	0.5 - 10µl	●	●				
	2 - 20µl		●	●	●		
	10 - 100µl				●	●	
	20 - 200µl					●	
	30 - 300µl					●	
	10 - 100µl/12					●	
	30 - 300µl/12					●	
	100 - 1000µl						●
<b>Eppendorf Research Plus™</b>	0.5 - 10µl	●	●				
	2 - 20µl		●	●	●		
	10 - 100µl				●		
	20 - 200µl					●	
	10 - 100µl/12						
	100 - 1000µl						●
<b>Eppendorf Research Pro (electronic)™</b>	20 - 300µl/12					●	
<b>Eppendorf Xplorer Plus™</b>	15 - 300µl					●	
	50 - 1000µl						●
<b>Finnpipette™</b>	0.5 - 10µl	●	●				
	2 - 20µl			●	●		
	5 - 50µl				●	●	
	20 - 200µl					●	
	30 - 300µl					●	
	100 - 1000µl						●
<b>Finnpipette F1™</b>	0.2 - 2µl		●				
	2 - 20µl						
	5 - 50µl/12				●		
	20 - 200µl						
	30 - 300µl/12					●	
	100 - 1000µl						●
<b>Finnpipette F2™</b>	2 - 20µl						
	5 - 50µl				●		
	10 - 100µl				●		
	20 - 200µl						
	100 - 1000µl						●
<b>Finnpipette Digital™</b>	1 - 10µl	●	●				
	20 - 200µl						
	50 - 300µl					●	
	0.5 - 10µl /8		●				
	5 - 50µl /8				●		
	50 - 300µl /8						

# FILTER TIPS COMPATIBILITY CHART

## CONTINUED

Pipettor Brand	Model						
		10µl	10µl , Extended Length	20µl	100µl	300µl	1250µl
Gilson™	P2		●				
	P10	●	●				
	P20		●	●	●		
	P100				●		
	P200					●	
	P1000						●
Gilson Pipetman Ultra™	U20				●		
	U200					●	
Hamilton™	0.2 - 2µl		●				
	1 - 10µl	●	●				
	2.5 - 25µl			●	●		
	10 - 100µl				●	●	
	30 - 300µl					●	
	100 - 1000µl						●
LabNet BioPette E™	100 - 1200µl						●
Nichiryo Nichipet EX™	0.5 - 10µl	●	●				
	2 - 20µl		●	●	●		
	10 - 100µl				●		
	20 - 200µl					●	
	100 - 1000µl						●
Nichiryo Oxford Benchmate™	0.1 - 2µl	●	●				
	2 - 20µl			●	●		
	50 - 300µl					●	
Nichiryo Oxford Multimate™	0.5 - 10µl	●	●				
	5 - 50µl				●		
	30 - 300µl					●	
Socorex Calibra 822™	1 - 10µl	●	●				
	10 - 100µl				●		
	20 - 200µl					●	
	100 - 1000µl						●
VWR Ergonomic High Performance™	2 - 20µl			●	●		
	20 - 200µl					●	
	100 - 1000µl						●
VWR Ultra High Performance™	0.1 - 2µl	●	●				
	0.5 - 10µl	●	●				
	2 - 20µl		●	●	●		
	10 - 100µl				●	●	
	20 - 200µl					●	
	100 - 1000µl						●

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# ROBOTIC TIPS

Biotix robotic tips are manufactured to the highest engineering standards for automation systems. The ultra-straight tips target the center of microplate wells precisely, delivering exceptional accuracy and precision without risk of jamming. With specifications to ensure complete compatibility, no changes in programming scripts should be necessary to use Biotix robotic tips; use of the standard definitions bundled in the robotic software program is appropriate.

As with all Biotix liquid handling products, robotic tips are BioReady™ certified to be free of RNase-, DNase-, and Endotoxin (pyrogens), and are available non-sterile or pre-sterile.










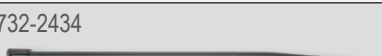
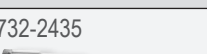
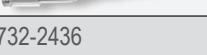
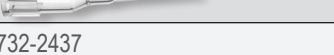



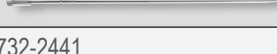




96-FORMAT ROBOTIC TIPS FOR AGILENT® PLATFORMS				
	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Agilent VPrep® and Bravo® Automated Liquid Handling Systems	732-2459	 Robotic tip for Agilent VPrep/Bravo, Clear, 96 tips/rack	250µl	10 racks/pack
	732-2460	 Robotic tip for Agilent VPrep/Bravo, Clear, 96 tips/rack, Pre-sterile	250µl	10 racks/pack
	732-2461	 Filtered robotic tip for Agilent VPrep/Bravo, Clear, 96 tips/rack, Pre-sterile	250µl	10 racks/pack






96-FORMAT ROBOTIC TIPS FOR BECKMAN® PLATFORMS				
	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Biomek® FX/NX, Multimek® AP96, Biomek 3000®	732-2449	 Robotic tip for Beckman FX, 96 tips/rack, Clear	20µl	10 racks/pack
	732-2411	 Robotic tip for Beckman FX, 96 tips/rack, Clear, Pre-sterile	20µl	10 racks/pack
	732-2410	 Filtered robotic tip for Beckman FX, 96 tips/rack, Clear, Pre-sterile	20µl	10 racks/pack
	732-2452	 Robotic tip for Beckman FX, 96 tips/rack, Clear	250µl	10 racks/pack
	732-2413	 Robotic tip for Beckman FX, 96 tips/rack, Clear, Pre-sterile	250µl	10 racks/pack
	732-2412	 Filtered robotic tip for Beckman FX, 96 tips/rack, Clear, Pre-sterile	250µl	10 racks/pack
Biomek FX/NX with SPAN-8 Liquid-level Sensing Head	732-2455	 Robotic tip for Beckman SPAN-8, Black, 96 tips/rack	20µl	10 racks/pack
	732-2456	 Robotic tip for Beckman SPAN-8, Black, 96 tips/rack, Pre-sterile	20µl	10 racks/pack
	732-2457	 Robotic tip for Beckman SPAN-8, Black, 96 tips/rack	250µl	10 racks/pack
	732-2458	 Robotic tip for Beckman SPAN-8, Black, 96 tips/rack, Pre-sterile	250µl	10 racks/pack











**96-FORMAT ROBOTIC TIPS FOR TECAN® PLATFORMS**



	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Tecan Temo®, Freedom EVO®, Caliper Zephyr®SPE, and BioTek® Precision™ systems	732-2425 	Robotic tip for Tecan Temo/EVO, Clear, 96 tips/rack	50µl	10 racks/pack
	732-2426 	Robotic tip for Tecan Temo/EVO, Clear, 96 tips/rack, Pre-sterile	50µl	10 racks/pack
	732-2427 	Robotic tip for Tecan Temo/EVO, Clear, 96 tips/rack	200µl	10 racks/pack
	732-2428 	Robotic tip for Tecan Temo/EVO, Clear, 96 tips/rack, Pre-sterile	200µl	10 racks/pack
Tecan Genesis®, Freedom EVO® and MiniPrep, Cavro®, PerkinElmer/ Packard Multiprobe® II HT, and Multiprobe II HT EX® workstations	732-2429 	Robotic Tip for Tecan Genesis, Hanging (LiHa) Liquid Sensing, Black, 96 tips/rack	20µl	24 racks/case
	732-2430 	Robotic Tip for Tecan Genesis, Hanging (LiHa) Liquid Sensing, Black, 96 tips/rack, Pre-sterile	20µl	24 racks/case
	732-2431 	Robotic Tip for Tecan Genesis, Hanging (LiHa) Liquid Sensing, Black, 96 tips/rack	200µl	24 racks/case
	732-2432 	Robotic Tip for Tecan Genesis, Hanging (LiHa) Liquid Sensing, Black, 96 tips/rack, Pre-sterile	200µl	24 racks/case
	732-2433 	Robotic Tip for Tecan Genesis, Hanging (LiHa) Liquid Sensing, Black, 96 tips/rack	1000µl	16 racks/case
	732-2434 	Robotic Tip for Tecan Genesis, Hanging (LiHa) Liquid Sensing, Black, 96 tips/rack; Pre-sterile	1000µl	16 racks/case
	732-2435 	Robotic tip for Tecan Genesis, Hanging (LiHa) Clear, 96 tips/rack	20µl	24 racks/cs
	732-2436 	Robotic tip for Tecan Genesis, Hanging (LiHa) Clear, 96 tips/rack, Pre-sterile	20µl	24 racks/cs
	732-2437 	Robotic tip for Tecan Genesis, Hanging (LiHa) Clear, 96 tips/rack	200µl	24 racks/cs
	732-2438 	Robotic tip for Tecan Genesis, Hanging (LiHa) Clear, 96 tips/rack, Pre-sterile	200µl	24 racks/cs
	732-2439 	Robotic tip for Tecan Genesis, Hanging (LiHa) Clear, 96 tips/rack	1000µl	16 racks/cs
	732-2440 	Robotic tip for Tecan Genesis, Hanging (LiHa) Clear, 96 tips/rack, Pre-sterile	1000µl	16 racks/cs
Multichannel Arm™ 96 (MCA96) option on Tecan Freedom EVO®	732-2441 	Robotic tip for MCA96, Clear, 8 nested trays/pack	50µl	8 trays/pack
	732-2442 	Robotic tip for MCA96, Clear, 8 nested trays/pack, Pre-sterile	50µl	8 trays/pack
	732-2443 	Robotic tip for MCA96, Clear, 8 nested trays/pack	200µl	8 trays/pack

# ROBOTIC TIPS CONTINUED

96-FORMAT ROBOTIC TIPS FOR TECAN® PLATFORMS				
	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Multichannel Arm™ 96 (MCA96) option on Tecan Freedom EVO®	732-2444	Robotic tip for MCA96, Clear, 8 nested trays/pack, Pre-sterile	200µl	8 trays/pack
				
	732-2445	Robotic tip for MCA96, Clear, 96 tips/rack	50µl	10 racks/pack
				
	732-2446	Robotic tip for MCA96, Clear, 96 tips/rack, Pre-sterile	50µl	10 racks/pack
				
732-2447	Robotic tip for MCA96, Clear, 96 tips/rack	200µl	10 racks/pack	
				
732-2448	Robotic tip for MCA96, Clear, 96 tips/rack, Pre-sterile	200µl	10 racks/pack	
				

384-FORMAT ROBOTIC TIPS FOR AGILENT® PLATFORMS				
	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Agilent Velocity 11® VPrep® and Bravo® with 384-head	736-0409	Robotic tip for Agilent Velocity 11, 384-head, Clear, Pre-sterile	30µl	10 racks/pack
				
	736-0614	Filtered robotic tip for Agilent Velocity 11, 384-head, Clear, Pre-sterile	15µl	10 racks/pack
				
736-0413	Robotic tip for Agilent Velocity 11, 384-head, Clear, Pre-sterile	70µl	10 racks/pack	
				
736-0615	Filtered robotic tip for Agilent Velocity 11, 384-head, Clear, Pre-sterile	70µl	10 racks/pack	
				

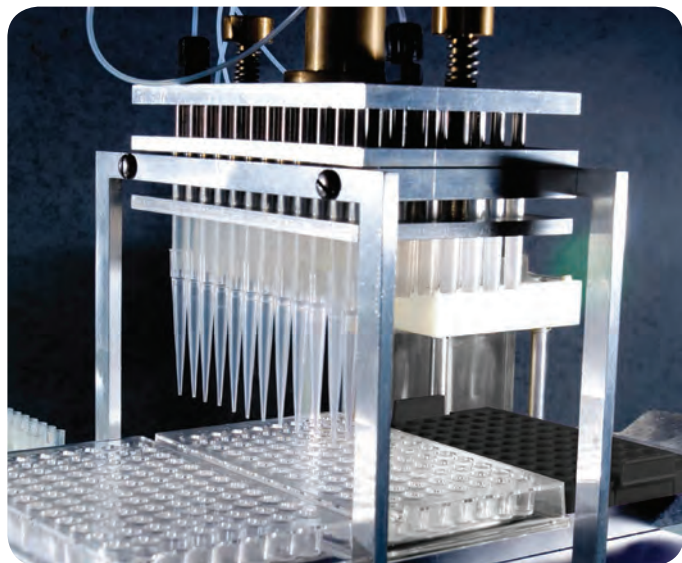
384-FORMAT ROBOTIC TIPS FOR BECKMAN® PLATFORMS				
	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Beckman Biomek® FX/NX with 384-head	736-0410	Robotic tip for Beckman FX/NX, 384-head, Clear, Pre-sterile	30µl	10 racks/pack
				
	736-0415	Filtered robotic tip for Beckman FX/NX, 384-head, Clear, Pre-sterile	30µl	10 racks/pack
				
736-0411	Robotic tip for Beckman FX/NX, 384-head, Clear, Pre-sterile	50µl	10 racks/pack	
				
736-0412	Filtered robotic tip for Beckman FX/NX, 384-head, Clear, Pre-sterile	45µl	10 racks/pack	
				

384-FORMAT ROBOTIC TIPS FOR MOLECULAR DEVICES® PLATFORMS				
	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
Molecular Devices FLIPR® Liberty® head	736-0414	Robotic tip for Molecular Devices, 384-head, Clear, Pre-sterile	30µl	10 racks/pack
				
	732-2414	Robotic tip for Molecular Devices, 384-head, Black, Pre-sterile	30µl	10 racks/pack
				



# ROBOTICS LABORATORY

Biotix produces the best robotic tips on the market. To meet this standard, each lot of Biotix robotic product is tested in our very own automation laboratory. By verifying compatibility and performance against each liquid handling system, Biotix leads the industry in quality.



## STATIX

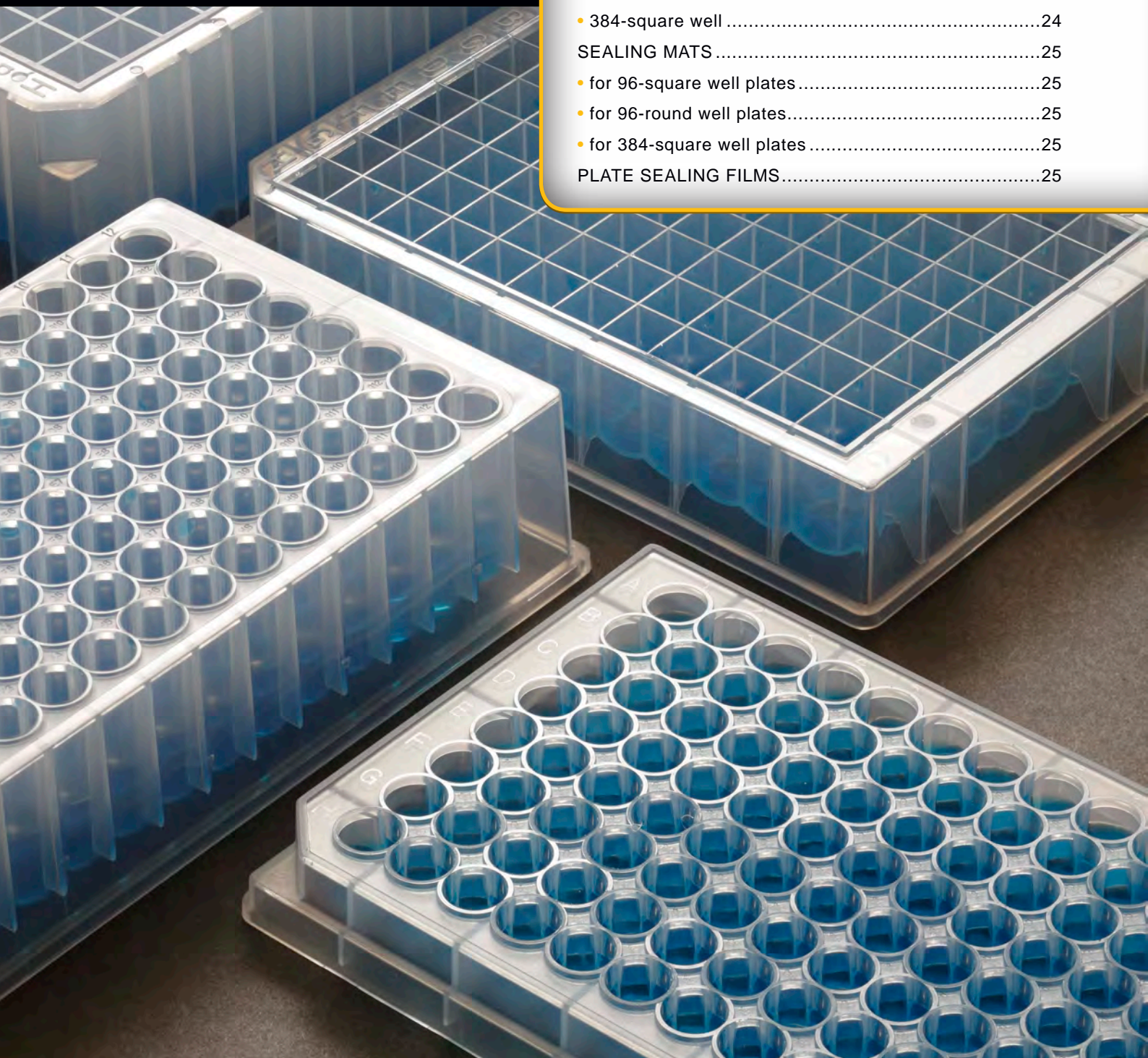
For years laboratory automation systems have been plagued by static. The effects of this atmospheric condition can cause unmanned pieces of high-end equipment to jam and ruin an experiment or worse yet, a piece of equipment. Biotix has created Statix™, a patent pending technology that works to prevent and remove static build-up. Statix consists of a copper grounding tab, conductive pillow and a conductive snap card, that prevents and dissipates static. This technology is available on Biotix 384-style robotic tips.



# PLATES

## FOR HIGH THROUGHPUT SCREENING

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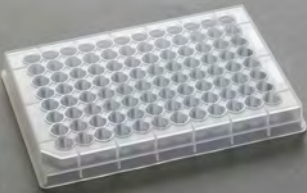
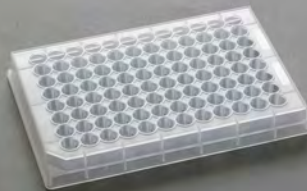
# PLATES

Biotix offers a complete line of 96 and 384-well plates for high throughput screening applications. With dimensions tightly conforming to ANSI/SBS 1-2004 standards, these plates are a perfect pairing with Biotix robotic tips. All plates are made from non-treated, medical-grade virgin polypropylene for excellent chemical and temperature resistance. Raised alphanumeric grids help with sample identification, while notched plate corners support correct plate orientation. Each lot of product is BioReady™ certified for the most sensitive assays.



## ASSAY PLATES

The large well diameter of Biotix 96-well assay plates make them ideal for a broad range of applications including compound libraries and combinatorial chemistry. Raised “chimney” wells reduce cross-contamination and allow secure application of cap mats and sealing films.

ASSAY PLATES	VWR PART NUMBER	DESCRIPTION	VOLUME/WELL	PACKAGING
	732-2470	Assay Plate, 96-well, V-Bottom	330µl	10 plates/pack
	732-2471	Assay Plate, 96-well, V-Bottom, Pre-sterile	330µl	10 plates/pack
	732-2472	Assay Plate, 96-well, U-Bottom	350µl	10 plates/pack
	732-2473	Assay Plate, 96-well, U-Bottom, Pre-sterile	350µl	10 plates/pack

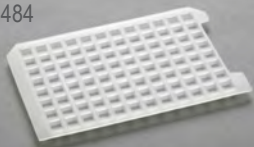


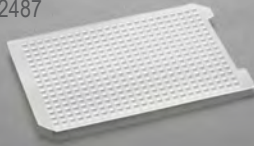
## DEEP WELL MICROPLATES

These sturdy deep well plates can support centrifugation up to 6,000 RCF when supported by the appropriate plate rotor. Plates are also stackable to save space in incubators and freezers.

DEEP WELL MICROPLATES	VWR PART NUMBER	DESCRIPTION	VOLUME/WELL	PACKAGING
	732-2478	Deep-well microplate, 96-round well, U-Bottom	1.2ml	5 plates/pack
	732-2479	Deep-well microplate, 96-round well, U-Bottom, Pre-sterile	1.2ml	5 plates/pack
	732-2480	Deep-well Microplate, 96-round well, U-Bottom, Individual well format	1.2ml	5 plates/pack
	732-2481	Deep-well Microplate, 96-round well, U-Bottom, Individual well format, Pre-sterile	1.2ml	5 plates/pack
	732-2491	Deep-well Microplate, 96-square well, V-Bottom	1.2ml	10 plates/pack
	732-2492	Deep-well Microplate, 96-square well, V-Bottom, Pre-sterile	1.2ml	10 plates/pack
	732-2484	Deep-well Microplate, 96-square well, V-Bottom	2.2ml	5 plates/pack
	732-2483	Deep-well Microplate, 96-square well, V-Bottom, Pre-sterile	2.2ml	5 plates/pack
	732-2474	Deep-well Microplate, 384-square well	120µl	10 plates/pack
	732-2475	Deep-well Microplate, 384-square well, Pre-sterile	120µl	10 plates/pack
	732-2476	Deep-well Microplate, 384-square well	190µl	10 plates/pack
	732-2477	Deep-well Microplate, 384-square well, Pre-sterile	190µl	10 plates/pack


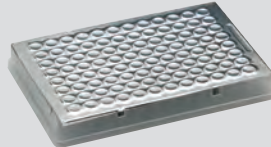

## SEALING MATS FOR 96 AND 384-WELL PLATES

Specifically designed for Biotix assay and deep-well microplates, these re-usable sealing mats are cost-effective and ideal for sample processing and storage applications. Biotix sealing mats are made of high quality silicone, enabling repeated autoclaving, bleach and ethanol rinses. Mats for 96-well plates are pre-scored for piercing with standard pipette tips. 384-style sealing mats are pierceable with a syringe. All mats support a wide temperature range from -80°C to +121°C

SEALING MATS FOR 96 AND 384-WELL PLATES	DESCRIPTION	PACKAGING	COMPATIBLE BIOTIX PLATE PART NUMBER
732-2484 	Plate Sealing Mat, 96-Square Well, Pre-scored with (+) over each well	10 mats/pack	732-2491 732-2492 732-2484 732-2483
732-2485 	Plate Sealing Mat, 96-Round Well, Pre-scored with (--) over each well	10 mats/pack	732-2470 732-2471 732-2472 732-2473 732-2478 732-2479
732-2486 	Plate Sealing Mat, 96-Round Well, Pre-scored with (+) over each well	10 mats/pack	732-2470 732-2471 732-2472 732-2473 732-2478 732-2479
732-2487 	Plate Sealing Mat, 384-Square Well	10 mats/pack	732-2474 732-2475 732-2476 732-2477

## PLATE SEALING FILMS FOR 96 AND 384-WELL PLATES

Single-use sealing films are a convenient option for working with Biotix plates in high volume applications. Tapes are backed with a smooth, non-absorbing medical-grade adhesive for superior performance. Select from non-pierceable polypropylene, pierceable aluminum, or optically clear sealing films.

PLATE SEALING FILMS FOR 96 AND 384-WELL PLATES	DESCRIPTION	PACKAGING
732-2490 	Aluminum Sealing Film, Pierceable; Functional temperature range -70°C to 120°C	100 sheets/case
732-2488 	Polypropylene Sealing Film, Non-pierceable; Functional temperature range -40°C to 125°C	100 sheets/case
732-2490 	Optically Clear Sealing Film for PCR and qPCR Plates; Functional temperature range -40°C to 120°C	100 sheets/case



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# REAGENT RESERVOIRS

Biotix disposable reagent reservoirs are designed for use with multi-channel pipetting applications and can accommodate up to 12-channel pipettes. Angled sides and a V-shaped bottom allow maximum recovery of reagents. All reservoirs feature internal graduated volume lines and pour-spouts on the corners. Choose from opaque white polyvinyl chloride (PVC) or high clarity polystyrene (PS) in several packaging configurations.



VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
613-2849 	Polystyrene Reagent Reservoir, Pre-sterile	100ml	5 reservoirs/bag
			10 bags/pack
613-2850 	Polystyrene Reagent Reservoir, Pre-sterile	100ml	1 reservoir/bag
			20 bags/pack
613-2851 	Polystyrene Reagent Reservoir	100ml	Bulk
			100 reservoirs/pack
613-2852 	Polystyrene Reagent Reservoir, Pre-sterile	55ml	5 reservoirs/bag
			10 bags/pack
613-2853 	Polystyrene Reagent Reservoir, Pre-sterile	55ml	1 reservoir/bag
			20 bags/pack
613-2854 	PVC Reagent Reservoir	55ml	Bulk
			100 reservoirs/pack
613-2861 55ML Reservoir Accessory	Lid for Reagent Reservoirs, APET	n/a	20 lids/pack
613-2855 	Polystyrene Reagent Reservoir, Pre-sterile	25ml	5 reservoirs/bag
			10 bags/pack

# REAGENT RESERVOIRS

VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
613-2856	 Polystyrene Reagent Reservoir, Pre-sterile	25ml	1 reservoir/bag
			20 bags/pack
613-2857	 Polystyrene Reagent Reservoir	25ml	Bulk
			100 reservoirs/pack
613-2858	 Polystyrene 3-Well Divided Reagent Reservoir, Pre-sterile	25ml	5 reservoirs/bag
			10 bags/pack
613-2859	 Polystyrene 3-Well Divided Reagent Reservoir, Pre-sterile	25ml	1 reservoir/bag
			20 bags/pack
613-2860	 Polystyrene 3-Well Divided Reagent Reservoir	25ml	Bulk
			100 reservoirs/pack
613-1190	 Polystyrene Reagent Reservoir for Automation Platforms; ANSI/SBS 1-2004 Compliant; Pre-sterile	50ml	5 reservoirs/bag
			10 bags/pack
613-1189	 Polystyrene Reagent Reservoir for Automation Platforms; ANSI/SBS 1-2004 Compliant; Pre-sterile	50ml	1 reservoir/bag
			10 bags/pack
613-1188	 Polystyrene Reagent Reservoir for Automation Platforms; ANSI/SBS 1-2004 Compliant	50ml	Bulk
			100 reservoirs/pack
613-1193	 Polystyrene Reagent Reservoir for Automation Platforms; ANSI/SBS 1-2004 Compliant; Pre-sterile	100ml	5 reservoirs/bag
			10 bags/pack
613-1192	 Polystyrene Reagent Reservoir for Automation Platforms; ANSI/SBS 1-2004 Compliant; Pre-sterile	100ml	1 reservoir/bag
			10 bags/pack
613-1191	 Polystyrene Reagent Reservoir for Automation Platforms; ANSI/SBS 1-2004 Compliant	100ml	Bulk
			100 reservoirs/pack

# MICROCENTRIFUGE TUBES



# MICROCENTRIFUGE TUBES

Made of medical-grade virgin polypropylene, these snap-cap microcentrifuge tubes feature superior clarity for visualization of samples and isolated pellets. A frosted side panel and cap provides the ideal surface area for writing. Tubes featuring X-Resin provide ultra-low binding characteristics perfect for protein samples. Available in 0.65ml, 1.5ml and 2.0ml volumes, these tubes can be centrifuged up to 20,000 RCF and support the most rigorous laboratory protocols.



	VWR PART NUMBER	DESCRIPTION	VOLUME	PACKAGING
	525-0576	Microcentrifuge Tube, Clear	0.65ml	1,000 tubes/bag
	525-0577	Microcentrifuge Tube, Clear, Pre-sterile	0.65ml	500 tubes/bag
	525-0578	Microcentrifuge Tube, Clear, X-Resin for low retention	0.65ml	1,000 tubes/bag
	525-0579	Microcentrifuge Tube, Assorted Colors (blue/yellow/green/orange/red)	0.65ml	1,000 tubes/bag 10 bags/case (2 bags of each color)
	525-0580	Microcentrifuge Tube, Clear	1.5ml	500 tubes/bag
	525-0581	Microcentrifuge Tube, Clear, Pre-sterile	1.5ml	250 tubes/bag
	525-0582	Microcentrifuge Tube, Clear, X-Resin for low retention	1.5ml	500 tubes/bag
	525-0583	Microcentrifuge Tube, Assorted Colors (blue/yellow/green/orange/red)	1.5ml	500 tubes/bag 10 bags/case (2 bags of each color)
	525-0584	Microcentrifuge Tube, Clear	2.0ml	500 tubes/bag
	525-0585	Microcentrifuge Tube, Clear, Pre-sterile	2.0ml	250 tubes/bag
	525-0586	Microcentrifuge Tube, Clear, X-Resin for low retention	2.0ml	500 tubes/bag
	525-0587	Microcentrifuge Tube, Assorted Colors (blue/yellow/green/orange/red)	2.0ml	500 tubes/bag 10 bags/case (2 bags of each color)



# PCR TUBES & PLATES

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• 96-well, Half-skirted .....	32
• 96-well, Full-skirted.....	32
• 96-well, Opaque white for LightCycler™.....	32
• 384-well, Full-skirted.....	32



# PCR TUBES & PLATES

Biotix PCR Tubes and Plates are manufactured and tested to ensure robust amplification under the most exacting protocols. Made from medical-grade virgin polypropylene, these tubes and plates feature an ultra-thin wall that provides excellent thermal transfer with PCR heat blocks. All PCR products are free of PCR inhibitors and other interfering extractables. They are BioReady™ Certified for purity.



PCR TUBES	DESCRIPTION	VOLUME	PACKAGING
732-2462 	PCR Tube, Flat Cap, Clear	0.2ml	1,000 tubes/pack
732-2463 	8-Strip PCR Tubes, Clear	0.2ml	125 tubes/pack
732-2464 	8-Strip Flat Caps for 0.2ml PCR Strip Tubes & Plates	n/a	125 caps/pack

PCR PLATES	DESCRIPTION	VOLUME	PACKAGING
732-2465 	PCR Plate, 96-well, Non-Skirted, Clear	200µl	10 plates/pack
732-2466 	PCR Plate, 96-well, Half-Skirted, Clear	200µl	10 plates/pack
732-2467 	PCR Plate, 96-well, Full-Skirted, Clear	200µl	10 plates/pack
732-2468 	PCR Plate, 96-well, Half-Skirted, Opaque White for LightCycler™	100µl	10 plates/pack
732-2469 	PCR Plate, 384-well, Full-Skirted, Clear	50µl	10 plates/pack



# BEST PRACTICES FOR LABORATORY PLASTICS

With our Xtreme Quality™ philosophy, Biotix produces laboratory consumables that are among the highest quality in the industry. Our tightly controlled ISO 9001 certified production facility, coupled with our rigorous inspection requirements, ensure that our products are molded to strict quality specifications to produce the best results in your laboratory. By utilizing best practices for storing and using laboratory plastics, Biotix products will perform as well in your hands as they do in ours.

## STORAGE

When stored properly, Biotix products have a long shelf life and maintain high quality performance. Store at room temperature and away from prolonged sun exposure which can yellow plastics over time. Maintain a First In, First Out (FIFO) process for inventory control.

## AUTOCLAVING

All products from Biotix are BioReady™ Certified to be free of detectable RNase, DNase, Nucleic Acids, Endotoxins (pyrogens) and PCR inhibitors. Biotix recommends purchasing Pre-Sterile products if an additional level of purity is required. If your laboratory procedure requires autoclaving non-sterile purchased products, please adhere to the following guidelines:

- Set autoclave for 121°C, 15 PSI (1 atm) for 15 minutes
- Unlike glassware, do not use a “dry cycle” as this may distort and damage plastic products
- Remove product from autoclave after it has cooled and store appropriately

Biotix discourages autoclaving of robotic pipette tips, PCR tubes and PCR plates due to the warping/distortion that autoclaving can introduce to these high precision products.

## CHEMICAL RESISTANCE

Before initiating use of laboratory plastic consumables for a new assay, please review the chemical resistance chart to verify compatibility. Because of the unique applications in life science research (temperature, pressure, contact duration, material stress, etc.), it is always a best practice to carry out a performance test to your unique protocol.

## USE OF PLATES & TUBES IN CENTRIFUGATION

Before using any plate or tube in centrifugation, please refer to the product specifications to determine maximum centrifugation speeds. It is also important to understand the difference between Revolutions Per Minute (RPM) and Relative Centrifugal Force (RCF). Of the two specifications, RCF, or G force, is a standard unit of measurement across all centrifuges and can be calculated using the formula provided below. Setting the RCF too high can cause products to crack and shatter. Make sure you are using the appropriate RCF speed, and not RPM.

### CALCULATING RCF

$$\text{RCF} = 0.0001118 \times \text{radius of centrifuge rotor (cm)} \times \text{RPM}^2$$

## SAMPLE STORAGE IN FREEZER

Products such as Biotix microcentrifuge tubes and deep-well plates are often used for sample storage as they can withstand temperatures as low as -80°C. Water density expands by approximately 8<sup>1</sup>/<sub>3</sub>% upon freezing, so be sure to have allowance for expansion when placing your samples in the tubes and plates.

For detailed product specification sheets and technical studies, visit [www.biotix.com/support](http://www.biotix.com/support)

# CHEMICAL RESISTANCE CHART

The information in this chart has been supplied to Biotix by various reputable raw material manufacturers, and is to be used only as a guide in selecting products for appropriate chemical compatibility. These values are based on laboratory tests with raw materials. Plastic components produced from these raw materials are frequently subject to influences that cannot be recognized in standard tests (temperature, pressure, material stress, etc.). In critical cases, it is essential that a test is carried out first to your unique protocol. Biotix does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose. No legal claims can be derived from this information, nor do we accept any liability for it.

## General Physical Properties

Classes of substances; 20°C	HDPE	LDPE	PC	PP
Acids, weak or dilute	E	E	E	E
Acids, strong or concentrated	E	E	G	E
Alcohols, aliphatic	E	E	G	E
Aldehydes	G	G	F	G
Bases	E	E	N	E
Esters	G	G	N	G
Hydrocarbons, aliphatic	F	G	F	G
Hydrocarbons, aromatic	F	G	N	F
Hydrocarbons, halogenated	N	F	N	F
Ketones	G	G	N	G
Oxidizing agents, strong	F	F	N	F

## Chemical Resistance Chart

Reagent	HDPE	LDPE	PC	PP
Acetaldehyde	C	C	C1	A1
Acetamide	A	A	D	A1
Acetate Solvent	A	A	-	B1
Acetic Acid	A	A2	B1	B1
Acetic Acid 20%	A	A	A1	A1
Acetic Acid 80%	A	D	B1	A
Acetic Acid, GlacialD	D	B1	A1	D
Acetic Anhydride	C	D	D	B1
Acetone, 50% water	-	-	-	A
Acetone	D	B1	D	A
Acetonitrile	A	A	D	A1
Acetophenone	C	D	D	C
Acetyl Chloride (dry)	-	D	D	D
Acetylene	-	D	D	A1
Acrylonitrile	A	A	D	A1
Adipic Acid	A	A	-	B2
Alanine	A	A	A	A
Alcohols				
- Amyl	A	B2	B1	B1
- Benzyl	B	D	-	A
- Butyl	-	A	A2	A
- Diacetone	A	B1	-	B2
- Ethyl	A	B	B2	A
- Isobutyl	A	A2	-	A1
- Isopropyl	a	A2	A2	A2

## Plastics Acronym Chart

Low Density Polyethylene	LDPE	1 - Satisfactory to 72°F (22°C)
High Density Polyethylene	HDPE	2 - Satisfactory to 120°F (48°C)
Polycarbonate	PC	3 - Satisfactory to 90°F (32°C)
Polypropylene	PP	4 - Satisfactory to 120°F (93°C)

## Explanation of Footnotes

- A = No effect
- B = Minor Effect
- C = Moderate Effect
- D = Severe Effect; Not Recommended
- E = No damage after 30 days of constant exposure
- G = Little or no damage after 30 days of constant exposure
- F = Some effect after seven days of constant exposure; may see cracking, crazing, loss of strength
- N = Not recommended for continuous use
- = Not Available

Reagent	HDPE	LDPE	PC	PP
- Methyl	A	A1	B1	A2
- Propyl	-	A2	-	A
Allyl Chloride	A	-	-	A
Aluminum Acetate (saturated)	-	-	-	A
Aluminum Chloride	A	B2	A1	A
Aluminum Chloride 20%	A	B2	A1	A
Aluminum Fluoride	A	A2	-	A
Aluminum Hydroxide	A	A2	B1	A
Aluminum Nitrate	-	A2	A1	A2
Aluminum Potassium Sulfate 10%	A	A2	A1	A
Aluminum Potassium Sulfate 100%	A	A2	A2	A
Aluminum Sulfate	A	A2	A	A
Alums	-	A	-	A
Amines	B	C1	-	B2
Ammonia 10%	A	C1	D	A2
Ammonia Nitrate	-	A	-	A
Ammonia anhydrous	A	B2	D	A
Ammonia liquid	A	C1	D	A2
Ammonia Acetate	A	A	-	A
Ammonia Bifluoride	-	A2	-	A
Ammonium Carbonate	B	B2	-	A
Ammonium Chloride	A	A2	A2	A
Ammonium Fluoride 25%	A	-	-	A2
Ammonium Hydroxide	A	A1	D	A
Ammonium Glycolate	A	A	B	A

Reagent	HDPE	LDPE	PC	PP
Ammonium Nitrate	A	A1	-	A
Ammonium Oxalate	a	-	A1	A
Ammonium Persulfate	A	A2	-	A
Ammonium Phosphate, Dibasic	-	A2	A2	A
Ammonium Phosphate, Monobasic	-	A	-	A
Ammonium Phosphate, Tribasic	-	C	-	A
Ammonium Sulfate	A	A1	A2	A
Ammonium Sulfite	B	B2	-	A
Amyl Acetate	-	C1	D	B1
Amyl Alcohol	A	B2	B1	B1
Amyl Chloride	B	D	-	D
Aniline	B	C	D	A1
Aniline Hydrochloride	-	D	D	D
Antifreeze	-	-	-	D
Antimony Trichloride	B	B2	A2	A
Aqua Regia (80% HCL, 20% HNO3)	D	B1	D	B1
Arochlor 1248	-	C1	-	D
Aromatic Hydrocarbons	-	C	-	D
Arsenic Acid	B	B2	A1	A
Arsenic Salts	-	B	-	-
Barium Carbonate	-	B2	A2	A
Barium Chloride	B	A1	A	A
Barium Cyanide	-	B	-	D
Barium Hydroxide	-	B2	D	B
Barium Nitrate	-	B2	D	A
Barium Sulfate	B	B2	D	B1
Barium Sulfide	A	B2	-	B
Benzaldehyde	B	A1	D	D
Benzenamine	B	A	D	A
Benzene	D	D	D	D
Benzene Sulfonic Acid	A	A1	D	D
Benzoic Acid	A	A1	B1	B1
Benzol	-	C1	D	B
Benzyl Chloride	-	-	-	C1
Bleach	-	-	-	D
Bleaching Liquors	-	A1	-	A1
Borax (Sodium Borate)	A	A2	-	B
Boric Acid	A	A2	-	A
Bromine	D	D	C1	D
Bromofone	D	D	D	D
Butadiene	D	D	D	C
Butane	-	C1	D	A1
Butanol (Butyl Alcohol)	-	B2	B1	A1
Butyl Amine	-	C1	D	B1
Butyl Ether	-	-	-	D
Butyl Phthalate	A	C1	D	B2
Butyl Acetate	B	C1	D	B1
Butyric Acid	D	D	D	B1

Reagent	HDPE	LDPE	PC	PP
Calcium Bisulfide	-	B1	-	A
Calcium Bisulfite	A	A1	D	A
Calcium Carbonate	-	B	C2	A
Calcium Chloride (30% in water)	A	B2	-	A2
Calcium Chloride (saturated)	A	-	-	A
Calcium Hydroxide 10%	A	-	-	A
Calcium Hydroxide (saturated)	A	-	-	A
Calcium Hydroxide	A	A2	D	A2
Calcium Hypochlorite 30%	A	-	-	A
Calcium Hypochlorite (saturated)	A	-	-	A
Calcium Nitrate	B	A1	A2	A2
Calcium Oxide	-	B1	-	A
Calcium Sulfate	-	B1	A2	A
Calcium Sulfide	-	-	-	A
Carbolic Acid (Phenol)	-	D	D	B
Carbon Bisulfide	-	-	-	D
Carbon Dioxide (dry)	-	A1	-	A2
Carbon Dioxide (wet)	-	A1	-	A2
Carbon Disulfide	D	D	D	D
Carbon Monoxide	-	A2	-	A
Carbon Tetrachloride	C	D	D	D
Carbon Tetrachloride (dry)	C	D	-	D
Carbon Tetrachloride (wet)	C	-	-	D
Carbonic Acid	B	B2	A1	A
Cellulose Acetate	-	-	-	A
Chloral Hydrate	D	-	-	D
Chlorine Water	C	B1	-	D
Chlorine Anhydrous Liquid	C	D	C	D
Chlorine (dry)	B	D	-	D
Chloroacetic Acid	A	D	D	C1
Chlorobenzene (Mono)	D	C1	D	C1
Chlorobromomethane	-	A	-	A
Chloroform	D	C1	D	C1
Chlorosulfonic Acid	D	D	C1	D
Chromic Acid 5%	A	A	B	D
Chromic Acid 10%	A	A	B	D
Chromic Acid 30%	A	A	C	D
Chromic Acid 50%	A	A	D	D
Citric Acid	A	D	A1	A
Citric Oils	B	-	-	A
Copper Chloride	-	-	-	A
Copper Cyanide	-	B2	D	A
Copper Nitrate	-	B2	D	A
Copper Sulfate 5%	A	A2	A1	A
Copper Sulfate >55	A	A2	A1	A
Cresols	D	C1	D	D
Cresylic Acid	-	B1	D	A1
Cupric Acid	-	B1	A1	A2

# CHEMICAL RESISTANCE CHART CONTINUED

Reagent	HDPE	LDPE	PC	PP
Cyclohexane	D	B1	B	D
Cyclohexanon	B	D	D	D
Detergents	A	D	A1	A
Dextrin	A	-	-	A
Dextrose	A	-	-	A
Diacetone Alcohol	A	A	D	A1
Dichlorobenzene	-	-	D	C1
Dichloroethane	C	C1	D	D
Diesel Fuel	D	C1	A2	A1
Diethyl Ether	D	-	D	A1
Diethylamine	D	D	D	A1
Diethylene Glycol	A	B2	B1	A2
Dimethyl Aniline	B	-	D	D
Dimethyl Formamide	A	A	D	A
Diphenyl	-	-	-	D
Diphenyl Oxide	-	-	-	D
Disodium Phosphate	A	-	-	A
Epson Salts (Magnesium Sulfate)	-	A2	A1	A
Ethane	-	-	-	D
Ethanol	A	B	B2	A
Ethanolamine	-	-	-	D
Ether	D	D	-	D
Ethyl Acetate	A	A	D	A1
Ethyl Benzoate	B	C2	D	B1
Ethyl Chloride	C	C1	D	D
Ethyl Ether	D	D	-	D
Ethylene Bromide	-	D	D	D
Ethylene Chloride	C	D	D	C1
Ethylene Chlorohydrin	-	D	D	D
Ethylene Dichloride	D	D	D	D
Ethylene Glycol	A	A2	B1	A
Ethylene Oxide	B	A	C1	D
Fatty Acids	A	D	B1	A
Ferric Chloride	D	A1	A2	A
Ferric Nitrate	-	A2	A1	A
Ferric Sulfate	-	A2	A1	A
Ferrous Chloride	A	A2	D	A
Ferrous Sulfate	-	A2	A1	A
Fluoboric Acid	A	A2	-	A
Flourine	D	D	C	D
Fluosilicic Acid	B	A2	A1	A
Formaldehyde 40%	A	D	A1	A
Formaldehyde 100%	A	B	A2	C
Formic Acid	A	D	A1	A1
Freon 11	A	C	-	A
Freon 12	-	A1	-	A2
Freon 22	-	-	-	B

Reagent	HDPE	LDPE	PC	PP
Freon 113	-	-	B1	D
Freon TF	B	-	-	D
Fuel Oils	C	B	B1	A
Furan Resin	-	D	-	D
Furfural	A	D	D	D
Gallic Acid	A	A	-	A
Gasoline (high-aromatic)	B	A	A	A
Gasoline , leaded, ref.	B	-	A2	B
Gasoline, unleaded	B	-	A2	C1
Gelatin	A	A2	-	A
Glucose	A	A2	A1	A
Glycerin	A	A1	A2	A
Glycolic Acid	-	A2	-	A
Heptane	B	B1	B	C2
Hexane	C	D	D	B1
Hydraulic Oil (Petro)	A	C	-	D
Hydraulic Oil (Synthetic)	A	A	-	D
Hydrazine	D	-	D	C
Hydrobromic Acid 20%	D	B2	-	A2
Hydrobromic Acid 100%	D	B1	-	C1
Hydrochloric Acid 20%	A	A2	B1	B2
Hydrochloric Acid 37%	A	B2	D	C
Hydrochloric Acid 100%	D	-	D	B1
Hydrochloric Acid, Dry Gas	D	A2	-	B
Hydrocyanic Acid	A	A2	-	A
Hydrocyanic Acid (Gas 10%)	A	-	B1	A
Hydrofluoric Acid 20%	A	A2	D	A2
Hydrofluoric Acid 50%	A	A1	D	A2
Hydrofluoric Acid 75%	B	C1	D	C1
Hydrofluoric Acid 100%	D	-	D	C1
Hydrofluosilicic Acid 20%	B	B2	-	A
Hydrofluosilicic Acid 100%	C	B1	-	A
Hydrogen Gas	A	A2	A2	A
Hydrogen Peroxide 10%	A	A	A2	A
Hydrogen Peroxide 30%	A	C2	A2	B1
Hydrogen Peroxide 50%	A	C2	A2	B1
Hydrogen Peroxide 100%	A	C2	A	B1
Hydrogen Sulfide (aqua)	A	A	A	A1
Hydrogen Sulfide (dry)	A	A	-	A1
Hydroquinone	-	A	-	A
Iodine	B	A1	-	C
Isooctane	B	B	B1	A2
Isopropyl Acetate	B	B1	D	B1
Isopropyl Ether	D	B	D	B
Isotane	-	-	-	D
Kerosene	B	C1	D	B
Ketones	D	C1	D	C

Reagent	HDPE	LDPE	PC	PP
Laquer Thinners	D	A	B	D
Laquers	D	A	D	D
Lactic Acid	A	A1	B	B
Latex	-	-	-	A2
Lead Acetate	A	A2	-	A1
Lead Nitrate	A	A2	-	A2
Lead Sulfamate	-	A1	A1	A2
Linoleic Acid	-	A	-	B1
Lithium Chloride	D	A2	B1	A2
Lye: KOH Potassium Hydroxide	B	A	D	A
Lye: NaOH Sodium Hydroxide	B	D	D	A
Lye: Ca(OH)2 Calcium Hydroxide	B	A2	D	A2
Magnesium Bisulfate	-	-	A1	A2
Magnesium Carbonate	-	B	A1	A
Magnesium Chloride	A	A1	A2	A2
Magnesium Hydroxide	B	A2	A1	A
Magnesium Nitrate	B	A2	A1	A
Magnesium Sulfate (Epson Salts)	A	A2	A1	A
Maleic Acid	A	B2	-	A
Maleic Anhydride	A	D	-	D
Malic Acid	-	B2	-	A1
Melamine	-	-	-	A
Mercuric Chloride (dilute)	A	A	A	B
Mercuric Cyanide	-	A	-	B
Mercurous Nitrate	-	A	A2	A
Mercury	A	A	D	B
Methane	-	-	-	A
Methanol (Methyl Alcohol)	A	A1	B1	A2
Methyl Acetate	C	B1	D	D
Methyl Acrylate	-	-	-	D
Methyl Alcohol 10%	A	A1	B1	A2
Methyl Bromide	-	C1	-	C
Methyl Butyl Ketone	-	-	D	D
Methyl Cellulose	-	-	D	B
Methyl Chloride	-	C1	D	D
Methyl Dichloride	-	-	-	D
Methyl Ethyl Ketone	D	D	D	B2
Methyl Isobutyl Ketone	D	C	D	A
Methyl Methacrylate	-	-	-	D
Methylamine	-	A1	-	A2
Methylene Chloride	D	D	D	B1
Mineral Spirits	D	B	C	B
Monoethanolamine	-	C	-	B
Morpholine	-	-	D	B2
Naphtha	-	A1	B	B
Naphthalene	B	C	-	B
Natural Gas	-	A	-	A

Reagent	HDPE	LDPE	PC	PP
Nickel Chloride	B	A	A2	A
Nickel Nitrate	B	A	D	A2
Nickel Sulfate	B	A	A	A
Nitrating Acid (<1%)	-	-	-	C
Nitrating Acid (<15% H2SO4)	-	-	-	C
Nitrating Acid (>15% H2SO4)	-	-	-	C
Nitrating Acid (<15% HNO3)	-	-	-	C
Nitric Acid (5-10%)	A	B	A	A
Nitric Acid (20%)	B	C	B1	A2
Nitric Acid (50%)	D	B1	B	B
Nitric Acid (Concentrated)	D	C1	C1	D
Nitrobenzene	D	C1	D	B1
Nitromethane	D	A	D	B2
Nitrous Acid	-	-	-	A
Nitrous Oxide	-	C	-	D
Oleic Acid	C	C2	-	B1
Oleum 25%	-	D	-	D
Oleum 100%	-	D	-	D
Oxalic Acid (cold)	A	A2	-	A2
Ozone	A	C1	A1	B
Palmitic Acid	-	-	-	B1
Parafin	B	B	A1	A1
Pentane	-	D	A	D
Perchloric Acid	D	B	-	C
Perchloroethylene Acid	D	D	D	D
Petrolatum	-	B	-	D
Petroleum	D	C1	-	B1
Phenol (10%)	D	B	B1	B1
Phenol (Carbolic Acid)	D	D	D	B
Phosphoric Acid (<40%)	A	A	A	A2
Phosphoric Acid (>40%)	A	B1	A	A2
Phosphoric Acid (crude)	B	B1	A	B2
Phosphoric Acid (molten)	D	-	-	D
Phosphoric Acid Anhydride	A	-	D	A
Phosphorus	-	B	-	A
Photographic Developer	-	A	A2	A
Photographic Solutions	A	A	A1	A2
Phthalic Acid	B	B2	-	A
Phthalic Anhydride	-	-	A1	D
Picric Acid	D	A	D	B1
Potash (Potassium Carbonate)	B	A1	-	A
Potassium Bicarbonate	B	A	-	A
Potassium Bromide	B	A	A1	A
Potassium Chlorate	B	A1	A1	A
Potassium Chloride	A	A1	A	A
Potassium Chromate	-	A	-	A
Potassium Cyanide Solutions	-	A	-	A

# CHEMICAL RESISTANCE CHART CONTINUED

Reagent	HDPE	LDPE	PC	PP
Potassium Dichromate	B	A	A1	A
Potassium Ferricyanide	-	A2	-	A2
Potassium Ferrocyanide	-	A1	-	A
Potassium Hydroxide (Caustic Potato)	A	A	D	A
Potassium Iodide	B	B1	-	A2
Potassium Nitrate	B	A	A1	A
Potassium Permanganate	A	A	A2	A1
Potassium Sulfate	B	A2	A1	A
Potassium Sulfide	-	A2	-	A
Propane (liquefied)	D	C1	C1	A
Propylene Glycol	A	B2	B1	A2
Pyridine	D	B1	D	A2
Pyrogalllic Acid	-	-	-	A
Salicylic Acid	-	B2	A1	A1
Silicone	-	-	A2	A
Silver Nitrate	A	A	A2	A1
Soap Solutions	B	D	A1	A
Soda Ash (see Sodium Carbonate)	A	B	A	A
Sodium Acetate	A	A	A1	A
Sodium Aluminate	-	-	-	-
Sodium Benzoate	B	A2	A2	A2
Sodium Bicarbonate	A	A2	A2	A
Sodium Bisulfate	B	A2	A1	A
Sodium Borate (Borax)	B	A2	A1	A2
Sodium Carbonate	A	B2	A2	A
Sodium Chlorate	-	B2	A1	A
Sodium Chloride	A	A2	A2	A
Sodium Cyanide	B	A2	-	A
Sodium Ferrocyanide	-	A	-	A
Sodium Fluoride	-	A2	-	A
Sodium Hydroxide (20%)	C	B	A2	A
Sodium Hydroxide (50%)	C	B	D	A
Sodium Hydroxide (80%)	C	-	D	A
Sodium Hypochlorite (100%)	C	B2	-	B
Sodium Hypochlorite (<20%)	A	A	C	A
Sodium Metaphosphate	B	A1	-	A1
Sodium Metasilicate	-	-	-	A
Sodium Nitrate	B	A2	-	A
Sodium Perborate	-	A1	-	A
Sodium Peroxyde	B	A	A2	B
Sodium Polyphosphate	B	A	-	A
Sodium Silicate	A	A2	-	A
Sodium Sulfate	-	A2	A2	A

Reagent	HDPE	LDPE	PC	PP
Sodium Sulfide	B	A2	D	A
Sodium Sulfite	B	B1	-	A2
Sodium Thiosulfate	-	A1	D	A2
Stannic Chloride	-	A2	A1	A
Stannous Chloride	-	B2	-	A
Stearic Acid	A	B1	A1	A2
Stoddard Solvent	-	C2	A2	C
Sulfate (Liquors)	A	A2	-	A
Sulfur Chloride	-	C1	-	C1
Sulfur Dioxide	D	B1	-	A1
Sulfur Dioxide (dry)	A	A1	A1	A1
Sulfur Hexafluoride	-	B	-	-
Sulfur Trioxide	-	-	-	C
Sulfur Trioxide (dry)	-	C1	-	D
Sulfuric Acid (<10%)	A	A1	A1	A2
Sulfuric Acid (10 - 75%)	A	A1	B1	A1
Sulfuric Acid (75 - 100%)	B	C	D	C1
Sulfuric Acid (cold concentrated)	B	D	-	A2
Sulfuric Acid (hot concentrated)	B	D	D	D
Sulfurous Acid	B	B2	-	A
Tannic Acid	A	B2	C	A
Tartaric Acid	A	A1	-	A
Tetrachloroethane	-	-	-	C
Tetrachloroethylene	C	B	D	D
Tetrahydrofuran	C	C1	D	C2
Tin Salts	-	-	-	A
Toluene	D	C1	D	C1
Trichloroacetic Acid	C	A	D	A
Trichlorethane	D	-	D	C
Trichloroethylene	D	D	-	C1
Tricresylphosphate	-	B1	-	A1
Triethylamine	-	-	-	D
Trisodium Phosphate	A	A	-	A
Turpentine	B	D	D	D
Urea	A	A	D	A
Urine	A	A2	-	A
Vinegar	A	A	A2	A
Vinyl Acetate	D	A	-	B1
Water, Deionized	A	-	-	A2
Water, Distilled	A	A2	A2	A
Water, Salt	A	A2	A2	A
Xylene	D	B	D	B
Zinc Chloride	A	A1	A2	A
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