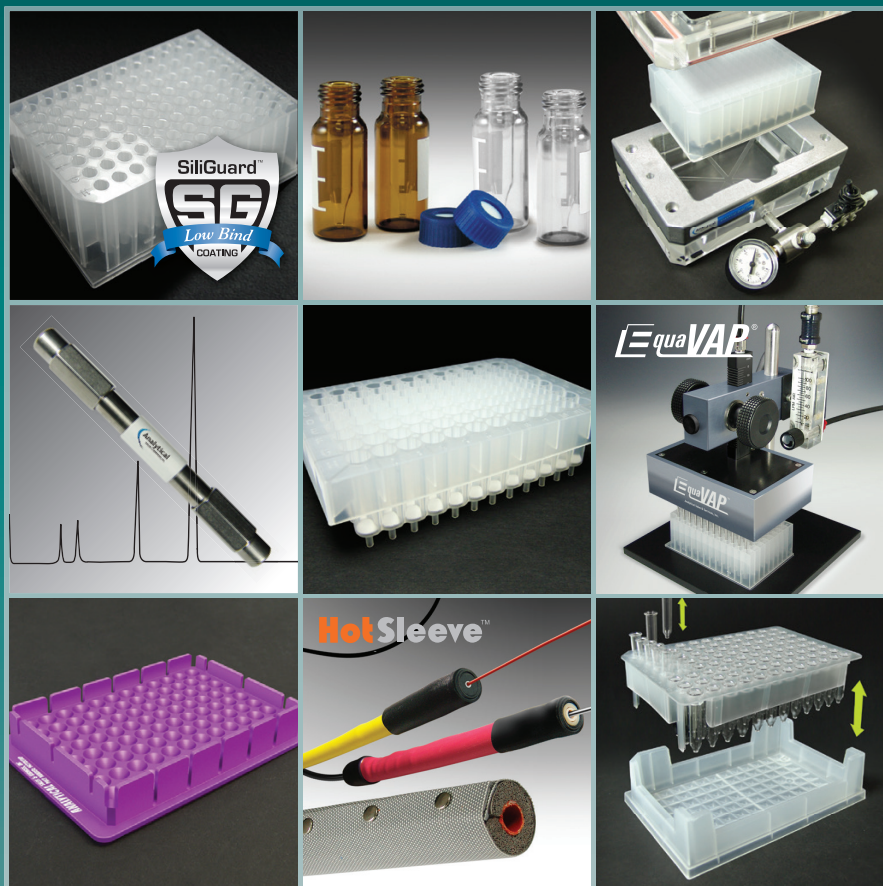




# Options For Sample Management & Clean Up



Ideas For Difficult Compounds

## Sample Management

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### You can order by:

- **Online store:** [www.analytical-sales.com](http://www.analytical-sales.com)
- **Phone:** 973-616-0700
- **Fax:** 973-616-0133
- **Email:** [orders@analytical-sales.com](mailto:orders@analytical-sales.com)

When ordering by phone, fax or email you will need to supply the catalog number, a brief description and size, or any particular specifications when indicated.



## Don't Get Stuck with Your Guard Down!

- Unique SiliGuard™ Treatment
- Reduces Non-Specific Binding
- Great for Sticky Compounds
- Low Protein/Peptide Binding
- Can Be Applied to All Polypropylene Products (e.g. Collection Plates, HPLC Vials, Micro-centrifuge Tubes)

Get the most from your samples. SiliGuard™ is a low-bind surface coating which helps prevent compounds from sticking to polypropylene surfaces.



### 96-Well Collection Plates with SiliGuard

#### Round Well

Cat. No.	Description	Volume	Qty
96355GC	U-Shaped Bottom	355µL	25
96340GC	V-Shaped Bottom	340µL	25
96390GC	Flat Bottom	390µL	25
96065GC	V-Shaped Deep	650µL	50
968810GC	TrueTaper®, 1mL	1mL	25
17P687GC	Round Bottom	1mL	20
17P687ZGC	Round Bottom	1mL	20
17P557GC	Clear-Vu™ Round Bottom	1mL	24
967720GC	2mL Round Bottom*	2mL	25

#### Square Well

Cat. No.	Description	Volume	Qty
968820GC	TrueTaper®, 2mL	2mL	25
59623-23GC	V-Bottom	2mL	10
27P687GC	Round Bottom	2mL	20

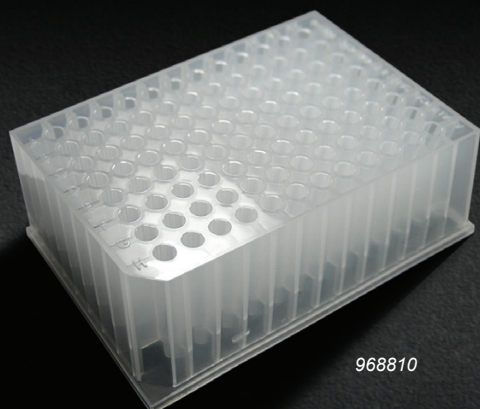
Custom coating of PP products is possible



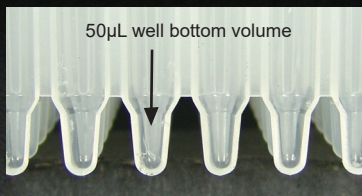
### Irradiated Plates

Our 1mL and 2mL TrueTaper Collection Plates and 2mL Round Well/Round Bottom Collection Plates can also be **irradiated**, with or without SiliGuard coating.

Cat. No.	Description	Volume	Qty
968810-RAD	1mL TrueTaper 96-Well Collection Plate, <b>Irradiated</b>	50µL bottom / 1.0mL total	25
968810GC-RAD	1mL TrueTaper with <b>SiliGuard</b> , <b>Irradiated</b>	50µL bottom / 1.0mL total	25
968820-RAD	2mL TrueTaper 96-Well Collection Plate, <b>Irradiated</b>	100µL bottom / 2.0mL total	25
968820GC-RAD	2mL TrueTaper with <b>SiliGuard</b> , <b>Irradiated</b>	100µL bottom / 2.0mL total	25
967720-RAD	2mL RW/RB, <b>Irradiated</b>	2mL	25
967720GC-RAD	2mL RW/RB with <b>SiliGuard</b> , <b>Irradiated</b>	2mL	25



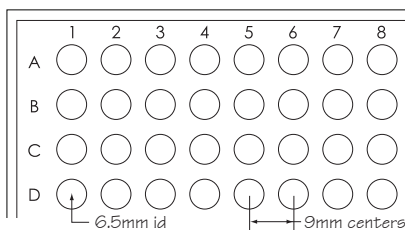
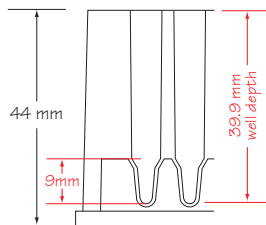
968810



- 50µL tapered bottom volume
- 1.0mL total volume capacity
- **Round** well with unique tapered bottom for **maximum sample recovery**

## 1mL TrueTaper® Collection Plates

Cat. No.	Description	Volume	Qty
968810	1mL TrueTaper 96-Well Collection Plate	50µL bottom / 1.0mL total	25
968810GC	1mL TrueTaper Collection Plate with <b>SiliGuard</b>	50µL bottom / 1.0mL total	25
968810-RAD	1mL TrueTaper 96-Well Collection Plate, <b>Irradiated</b>	50µL bottom / 1.0mL total	25
968810GC-RAD	1mL TrueTaper with <b>SiliGuard, Irradiated</b>	50µL bottom / 1.0mL total	25



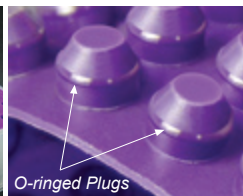
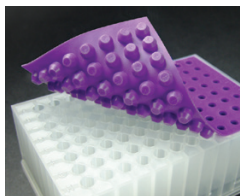
Available with



**Use with these Cap Mats:**

**O-Ringed Purple Silicone Cap Mats**  
for 1mL TrueTaper Collection Plates

- **Unique O-ringed Plugs**
- Holds Seal with Vigorous Vortexing
- No Crosstalk
- Autosampler Compatible



Cat. No.	Description	Color	Qty
960181	Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate	<b>Purple</b>	5
960185	<b>Pre-Slit</b> Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate	<b>Purple</b>	5

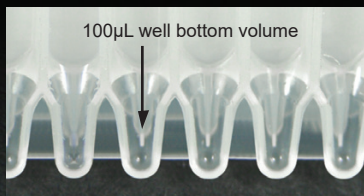
**Can also be used with these Standard Silicone Cap Mats**

Cat. No.	Description	Color	Qty
99890	<b>Pre-Slit</b> Opaque Silicone/PTFE Cap Mat, Round Well	<b>Blue</b>	5
99685	<b>CLEAR</b> Silicone/PTFE Cap Mat, Round Well	<b>CLEAR</b>	5
99690	<b>CLEAR Pre-Slit</b> Silicone/PTFE Cap Mat, Round Well	<b>CLEAR</b>	5

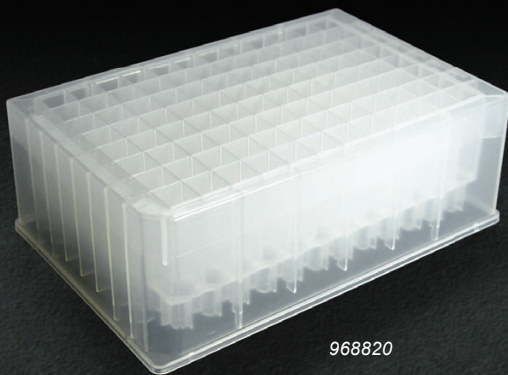


# 2mL TrueTaper

## 96-Well Polypropylene Collection Plate



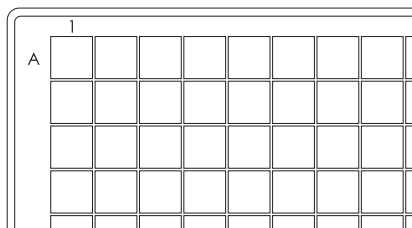
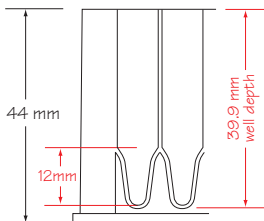
- **100µL** tapered bottom volume
- **2.0mL** total volume capacity
- **Square** well with unique tapered bottom for **maximum sample recovery**



968820

## 2mL TrueTaper® Collection Plates

Cat. No.	Description	Volume	Qty
968820	2mL TrueTaper 96-Well Collection Plate	100µL bottom / 2.0mL total	25
968820GC	2mL TrueTaper Collection Plate with <b>SiliGuard</b>	100µL bottom / 2.0mL total	25
968820-RAD	2mL TrueTaper 96-Well Collection Plate, <b>Irradiated</b>	100µL bottom / 2.0mL total	25
968820GC-RAD	2mL TrueTaper with <b>SiliGuard, Irradiated</b>	100µL bottom / 2.0mL total	25



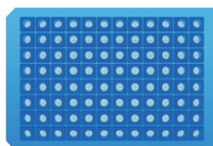
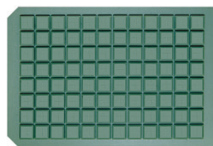
Available with



Use with these Cap Mats:

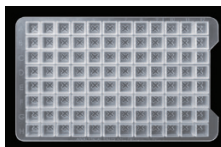
## Resealable Silicone/PTFE Coated Cap Mats, Square

Cat. No.	Description	Color	Qty
965008	Ultra Thin Square Well, Soft Silicone/PTFE	Purple	5
965085	<b>Pre-Slit</b> , Ultra Thin Square Well, Soft Silicone/PTFE	Purple	5
963725	Square Well, Silicone/PTFE	Green	5
963724	<b>Pre-Slit</b> , Square Well, Silicone/PTFE	Green	5
964008	Ultra Thin Square Well, Soft Silicone/PTFE	CLEAR	5
964085	<b>Pre-Slit</b> , Ultra Thin Square Well, Soft Silicone/PTFE	CLEAR	5
968802	Square Well, Soft Silicone/PTFE, <b>Thicker</b>	Blue	5
968801	<b>Pre-Slit</b> , Square Well, Soft Silicone/PTFE, <b>Thicker</b>	Blue	5



## Polypropylene Cap Mats, Square

Cat. No.	Description	Color	Qty
2726	Pierceable 'X' in Each Well	CLEAR	5
3726	2mL Cap Mat, PP	CLEAR	24





## Old Favorite - New Design!

### Ultra-clear Polypropylene Collection Plate

#### Advantage<sup>™</sup> Standard 1mL Collection Plates with Round Wells & Round Bottoms

Cat. No.	Description	Volume	Qty
17P687Z	Round Well/Round Bottom	1mL	20
17P687ZGC	Round Well/Bottom w/ SiliGuard	1mL	20

Sterilized plates are available upon request



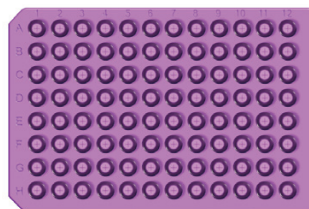
#### Advantage<sup>™</sup> Standard 1mL Collection Plates with Round Wells & Round Bottoms

- High quality, solvent resistant polypropylene
- Industry standard
- Distinct alphanumeric designation
- Compatible with all robotic systems

Cat. No.	Description	Volume	Qty
17P687	Round Well/Round Bottom	1mL	20
17P687GC	Round Well/Bottom w/ SiliGuard	1mL	20

## Resealable Silicone/PTFE Coated Cap Mats, Round

Cat. No.	Description	Color	Qty
965007	Ultra Thin, Soft Silicone/PTFE	Purple	5
965075	Pre-Slit, Ultra Thin, Soft Silicone/PTFE	Purple	5

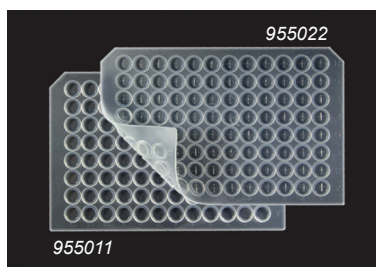


#### Advantage<sup>™</sup> 1mL Half-Height 96-Well Collection Plate

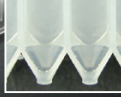
Cat. No.	Description	Volume	Qty
960101	Half-Height, Round Well, Shallow V-Bottom	1mL	32
960101GC	Half-Height, Round Well, Shallow V-Bottom w/ SiliGuard	1mL	32

## Used on Axygen and Nunc<sup>™</sup> Collection Plates

Cat. No.	Description	Qty
955011	Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5
955022	Pre-Slit Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5



59623-23



### Advantage™ 2mL 96-Well Collection Plates with Square Well with V-Shaped Bottom

Cat. No.	Description	Volume	Qty
59623-23	Square Top, V-Bottom	2mL	10
59623-23GC	Square Top, V-Bottom with <b>SiliGuard</b>	2mL	10
59623-23BK	<b>BLACK</b> Square Top, V-Bottom	2mL	10

27P687



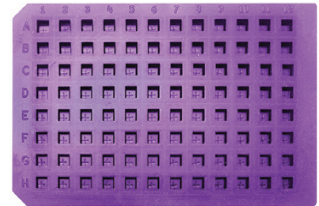
### Advantage™ 2mL 96-Well Collection Plates with Square Well with Round Bottom

Cat. No.	Description	Volume	Qty
27P687	Square Top, Round Bottom	2mL	20
27P687GC	Square Top, Round Bottom with <b>SiliGuard</b>	2mL	20

*Sterilized plates are available upon request*

### Resealable Silicone/PTFE Coated Cap Mats, Square

Cat. No.	Description	Color	Qty
965008	Ultra Thin, Soft Silicone/PTFE	Purple	5
965085	<b>Pre-Slit</b> , Ultra Thin, Soft Silicone/PTFE	Purple	5



### 2mL Round Well/ Round Bottom Collection Plate



Cat. No.	Description	Volume	Qty
967720	2mL Round Well/Round Bottom	2mL	25
967720GC	2mL RWRB with <b>SiliGuard</b>	2mL	25
967720-RAD	2mL RW/RB, <b>Irradiated</b>	2mL	25
967720GC-RAD	2mL RW/RB with <b>SiliGuard</b> , <b>Irradiated</b>	2mL	25

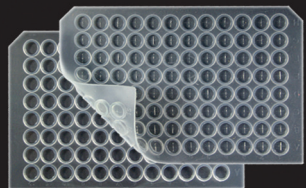
955022  
Cap Mat

967720

### Used on Axygen and Nunc™ Collection Plates

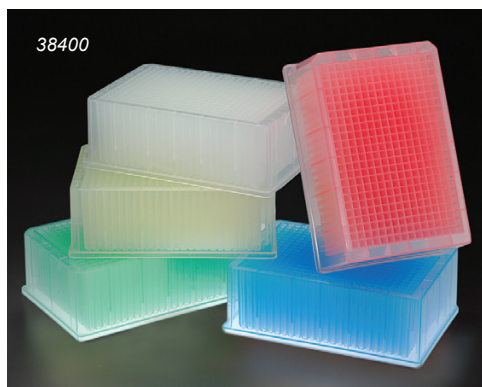
Cat. No.	Description	Qty
955011	Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5
955022	<b>Pre-Slit</b> Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5

955022



955011



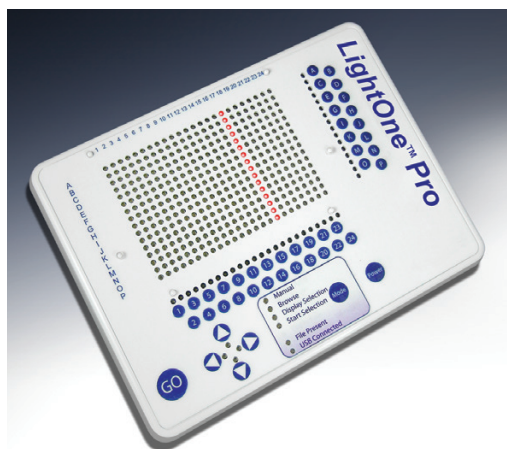
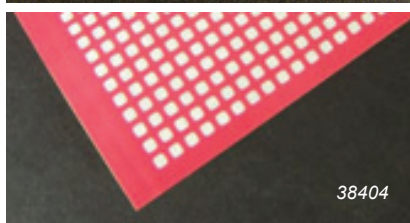
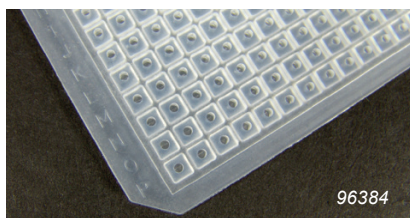


## 384-Well Polypropylene Collection Plates

Catalog No.	Well Volume	Well Sidewalls	Well Bottom	Qty
38435	58µL	Square	Round	60
384241	1-90µL	Square	V	100
384280	13-120µL	Square	V	100
38120	120µL	Square	Flat	24
384201	15-145µL	Square	Flat	100
38200	200µL	Square	Round	24

## 384 Cap Mats & Film

Cat. No.	Material	Type	Qty
96384	Silicone/PTFE	Cap Mats	5
96384SL	Silicone/PTFE	Cap Mats, Pre-slit	5
38402	Teflon®	Flat Film	100
38402SL	Teflon®	Flat Film, Pre-slit	100
38404	Silicone	Flat	5



## LightOne™ Pro Illuminator

- 384-Well or 96-Well
- Use USB port for downloading templates and customized files for cherry picking

Cat. No.	Description
LOI-384	LightOne Pro. Includes Foot Pedal and Silicone Adapter Mat
LOI-96FT	LightOne Illuminator (96 well)
LOR-96FT	LightOne Illuminator RED (96 well)
56410	ViewOne Lablite

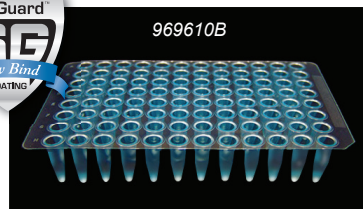
## Thin Wall PCR Plates

Available with



- Each well has 0.2mL capacity
- Can be used with all leading thermal cyclers
- Thin Walled – Can Be Cut Into Sections

Cat. No.	Description	Qty
969610	Clear 200µL PCR Plate, Flat Well Rim	100
969610B	<b>Blue</b> 200µL PCR Plate, Flat Well Rim	100



Available with



## Standard No-Cut PCR Plates

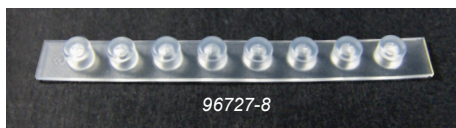
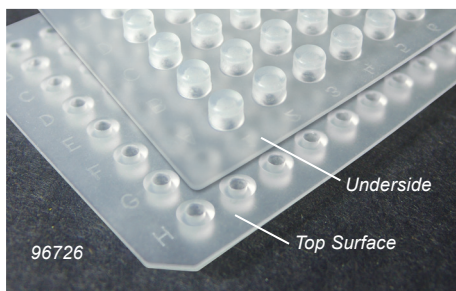
Cat. No.	Description	Qty
96100	Clear 100µL Skirted Low Profile Plate	100
96100GC	Clear 100µL Skirted Low Profile w/ SiliGuard	25
96100B	<b>Blue</b> 100µL Skirted Low Profile Plate	100

**For chemical illuinescent and fluorescent procedures:**

96323	White 100µL Skirted Low Profile PCR Plate	100
96323B	Black 100µL Skirted Low Profile PCR Plate	100

## Cap Mats for PCR Plates

Cat. No.	Description	Qty
96726	PCR Silicone Cap Mat	5
96727	PCR <b>Pre-slit</b> Silicone Cap Mat	5
96727-8	PCR <b>Pre-slit</b> Silicone Plug Strips (8 plugs/strip, 6mm Plugs)	60

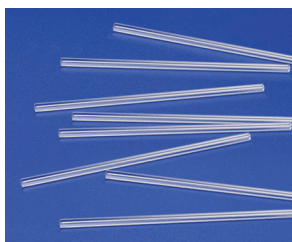


PCR<sup>®</sup> is a Registered Trademark of Hoffman-LaRoche.

## End to End Micro Pipettes with Anticoagulant

- Micro sampling allows for more time points from animals

Cat. No.	Description	Qty
173313	End to End Micro Pipette, 8µL, K2EDTA	1000
174113	End to End Micro Pipette, 10µL, K2EDTA	1000
172513	End to End Micro Pipette, 15µL, K2EDTA	1200

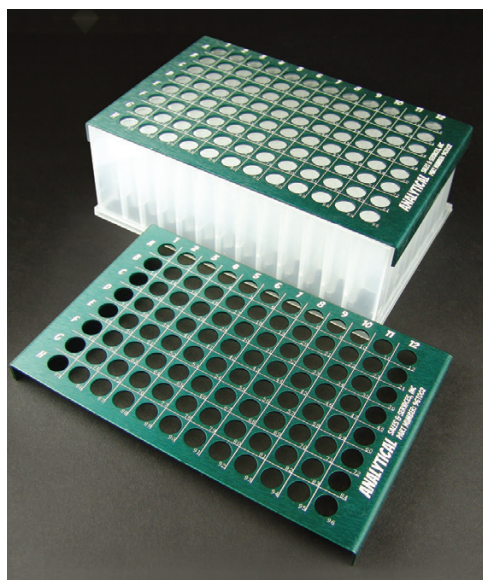




## Numeric & Alpha-Numeric Templates

for 96-Well Collection Plates

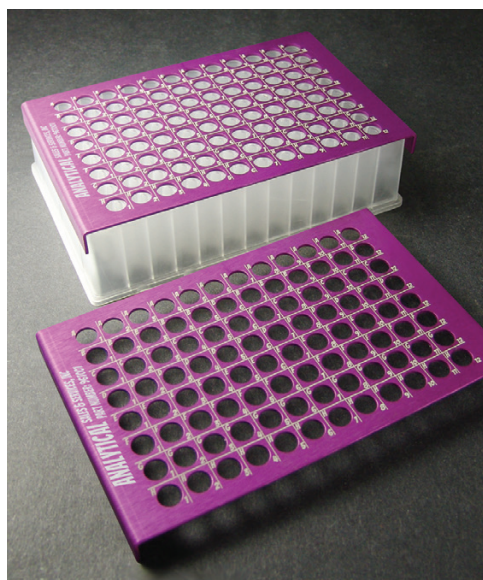
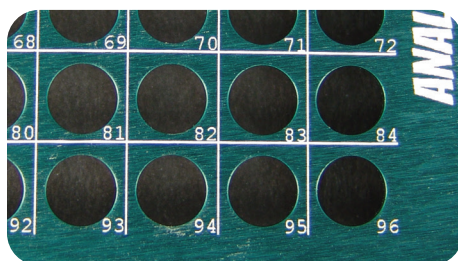
- Provides easy identification of each well
- Reusable – made of lightweight aluminum
- Low cost



### Numeric Template, Green

Numbers only 1-96 in the lower right corners

Cat. No.	Description	Qty
96T002	Numeric Template for 96-Well Collection Plates	Each

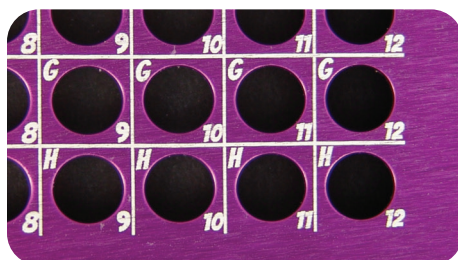


### Alpha-Numeric Template, Purple

Letters A-H in the upper left corners

Numbers 1-12 in the lower right corners

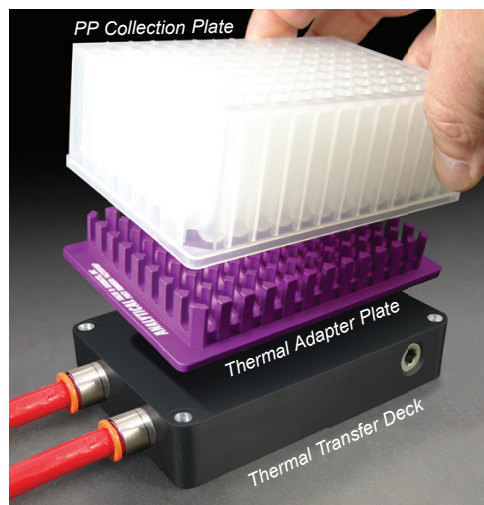
Cat. No.	Description	Qty
96T001	Alpha-numeric Template for 96-Well Collection Plates	Each



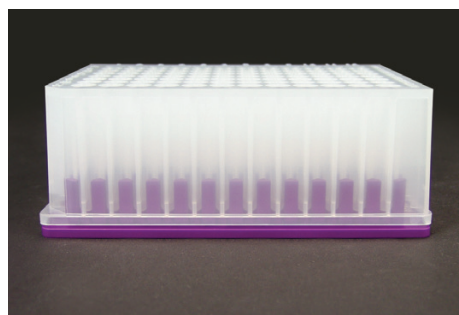
## Thermal Adapter Plates

- For improved temperature transfer to samples
- For use with matching polypropylene collection plates

Our Thermal Adapter Plates conform to the well shape of their complementing polypropylene collection plate. They ensure uniform thermal transfer for heating and cooling when used in conjunction with a heating block or chiller (not included). The plate features a SLAS footprint and easy to identify purple anodized coating.



*Analytical Sales & Services can make Thermal Adapter Plates to accommodate any shape and style polypropylene collection plate we offer. Please call 973-616-0700 for more information.*



## Thermal Adapter Plates

Cat. No.	Description	Qty
----------	-------------	-----

### For 967720 2mL Round Well/Round Bottom Collection Plates

967720TAP	Thermal Adapter Plate for 967720 Collection Plate	Ea
967720	2mL Round Well/Bottom 96-Well Collection Plate	25

### For 59623-23 2mL Round Well/V-Bottom Collection Plates

59623-23TAP	Thermal Adapter Plate for 59623-23 Collection Plate	Ea
59623-23	2mL Round Well/V-Bottom 96-Well Collection Plate	25

### For 968810 TrueTaper® 1mL Collection Plates

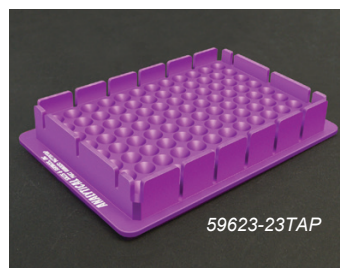
968810TAP	Thermal Adapter Plate for 968810 Collection Plate	Ea
968810	1mL TrueTaper® Collection Plate	25

### For 968820 TrueTaper® 2mL Collection Plates

968820TAP	Thermal Adapter Plate for 968820 Collection Plate	Ea
968820	2mL TrueTaper® Collection Plate	25

### For 17P687Z 1mL Round Well/Round Bottom Collection Plates

17P687ZTAP	Thermal Adapter Plate for 17P687Z Collection Plate	Ea
17P687Z	1mL Round Well/Bottom 96-Well Collection Plate	20



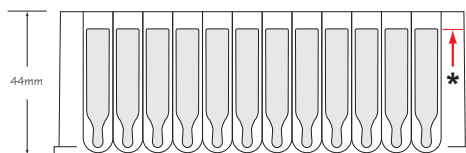
## Loose 0.7mL Glass Inserts

Cat. No.	Description	Qty
96305	0.7mL <b>Flat Bottom</b> Glass Inserts	100
96305S	0.7mL <b>Flat Bottom</b> Glass Inserts - <i>Silanized</i>	100
96837	0.7mL <b>Tapered</b> Glass Inserts	100
96837S	0.7mL <b>Tapered</b> Glass Inserts - <i>Silanized</i>	100



## Assembled 0.7mL Glass Inserts in 96-Well Collection Plates

- Square top, round bottom collection plate (27P687)
- Available with or without Cap Mat
- Pre-assembled



\* 0.7mL inserts do not reach the top surface of the collection plate - therefore, use **square-well** cap mats (see below)



### Flat Bottom

Cat. No.	Description	Qty
96382	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts	1
96326	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts, PP Pierceable Cap Mat with "X" on Surface	1
96326S	96-Well Plate w/ <b>Silanized</b> 0.7mL Flat Bottom Glass Inserts, PP Pierceable Cap Mat with "X"	1
96380	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts, <b>Pre-Slit</b> Silicone/PTFE Cap Mat	1
96385	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts, <b>CLEAR</b> Ultra Thin Silicone/PTFE Cap Mat	1

### Tapered

96687	96-Well Plate with 0.7mL Tapered Glass Inserts	1
96687S	96-Well Plate with <b>Silanized</b> 0.7mL Tapered Glass Inserts	1
96627	96-Well Plate with 0.7mL Tapered Glass Inserts, PP Pierceable Cap Mat with "X" on Surface	1
96627S	96-Well Plate with <b>Silanized</b> 0.7mL Tapered Glass Inserts, PP Pierceable Cap Mat with "X"	1
96685	96-Well Plate with 0.7mL Tapered Glass Inserts, <b>Purple</b> Ultra Thin <b>Pre-Slit</b> Square Cap Mat	1



## 96-Well Square Cap Mats

Cat. No.	Description	Qty
2726	2mL Autosampler Compatible Square PP Cap Mat with 'X' on Surface	20
964008	<b>CLEAR</b> Ultra Thin Silicone/PTFE Square Cap Mat	5
964085	<b>CLEAR Pre-Slit</b> , Ultra Thin Silicone/PTFE Square Cap Mat	5
965008	<b>Purple</b> Ultra Thin Silicone/PTFE Square <i>Mighty Mat</i>	5
965085	<b>Purple Pre-Slit</b> , Ultra Thin Silicone/PTFE Square <i>Mighty Mat</i>	5



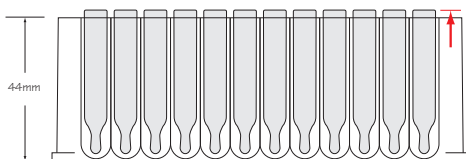


## Loose 1mL Glass Inserts

Cat. No.	Description	Qty
96405	1mL <b>Flat Bottom</b> Glass Inserts	100
96405S	1mL <b>Flat Bottom</b> Glass Inserts - <i>Silanized</i>	100
96847	1mL <b>Tapered</b> Glass Inserts	100
96847S	1mL <b>Tapered</b> Glass Inserts - <i>Silanized</i>	100

## Assembled 1mL Glass Inserts in 96-Well Collection Plates

- Square top, round bottom collection plate (27P687)
- Available with or without Cap Mat
- Pre-assembled



\* 1mL inserts extend beyond the top surface of the collection plate - therefore, use **round-well** cap mats

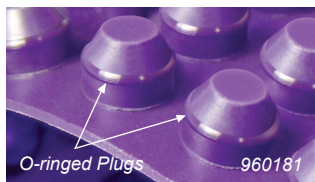


### Flat Bottom

Cat. No.	Description	Qty
96481	96-Well Plate with 1mL Flat Bottom Glass Inserts	1
96485	96-Well Plate with 1mL Flat Bottom Glass Inserts, Clear Silicone/PTFE Cap Mat	1
96490	96-Well Plate with 1mL Flat Bottom Glass Inserts, <b>Pre-slit</b> Clear Silicone/PTFE Cap Mat	1
96489	96-Well Plate with 1mL Flat Bottom Glass Inserts, <b>Pre-slit</b> Blue Silicone/PTFE Cap Mat	1

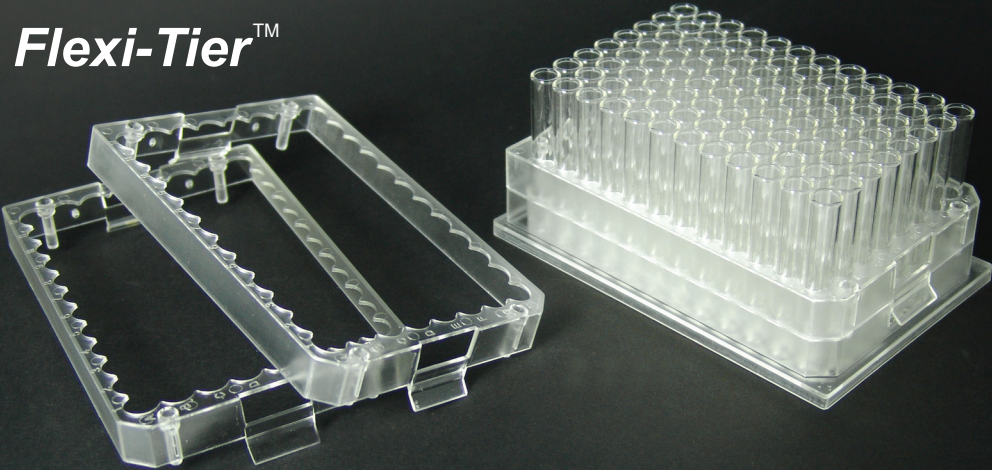
### Tapered

96681	96-Well Plate with 1mL Tapered Glass Inserts	1
96681S	96-Well Plate with <b>Silanized</b> 1mL Tapered Glass Inserts	1
99861	96-Well Plate with 1mL Tapered Glass Inserts, Clear Silicone/PTFE Cap Mat	1
99862	96-Well Plate with 1mL Tapered Glass Inserts, <b>Pre-slit</b> Clear Silicone/PTFE Cap Mat	1
99862S	96-Well Plate with <b>Silanized</b> 1mL Tapered Glass Inserts, <b>Pre-slit</b> Clear Silicone/PTFE Cap Mat	1
961879	96-Well Plate with 1mL Tapered Glass Inserts, <b>Pre-slit</b> Blue Silicone/PTFE Cap Mat	1



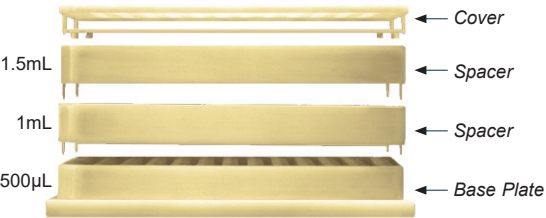
## 96-Well Round Cap Mats

Cat.No.	Description	Qty
960181	<b>Purple</b> Silicone/PTFE Cap Mat with <b>O-ringed Plugs</b>	5
960185	<b>Purple</b> <b>Pre-Slit</b> Silicone/PTFE Cap Mat with <b>O-ringed Plugs</b>	5
99685	<b>CLEAR</b> Silicone/PTFE Cap Mat for 1mL Tapered Vials	5
99690	<b>CLEAR</b> <b>Pre-Slit</b> Silicone/PTFE Cap Mat for 1mL Tapered Vials	5
99890	<b>Blue</b> Opaque <b>Pre-Slit</b> Silicone/PTFE Cap Mat for 1mL Tapered Vials	5



Flexi-Tier™ Adjustable Height Collection Systems

- Unique design for maximum flexibility
- Adjusts to various heights
- Accommodates 0.5 - 2mL vials
- Can be centrifuged to 2500 RPMs
- Open bottom base allows immersion
- Compatible with all autosampler & robotic systems
- Total fluid contact with vials for even heat or cold transfer



96-Position Flexi-Tier™ Complete Systems

All Systems Include Pre-Scored PTFE/Silicone Flat Liner (96FSC1) and Cover

CLEAR System

Heat Resistance up to 150°C

Cat. No.	Size	Material & Style	Qty
96FP05-C	0.5mL	Conical Clear Glass Inserts	Ea
96FP10-C	1.0mL	Conical Clear Glass Inserts	Ea
96BB05-C	0.5mL	Flat Bottom Clear Glass Inserts	Ea
96BB10-C	1.0mL	Flat Bottom Clear Glass Inserts	Ea

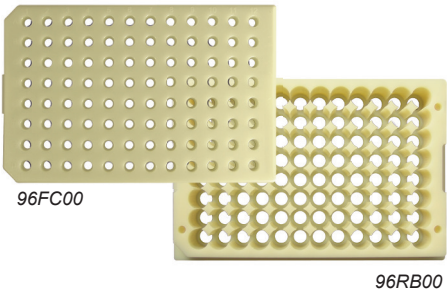
OPAQUE System

Heat Resistance up to 80°C

Cat. No.	Size	Material & Style	Qty
96FP05	0.5mL	Conical Clear Glass Inserts	Ea
96FP10	1.0mL	Conical Clear Glass Inserts	Ea
96BB05	0.5mL	Flat Bottom Clear Glass Inserts	Ea
96BB10	1.0mL	Flat Bottom Clear Glass Inserts	Ea

Flexi-Tier™ Collection Plate Accessories

Cat. No.	Description	Qty
96FS00-C	Clear Spacer	Ea
96FC00-C	Clear Cover	5
96FB00-C	Clear Base Plate	Ea
96FC00	Opaque Cover	5
96FS00	Opaque Spacer	Ea
96FB00	Opaque Slotted Bottom Base Plate	Ea
96RB00	Opaque Round Hole Bottom Base Plate	Ea





Conical Clear  
Glass InsertsConical Amber  
Glass InsertsFlat Bottom Clear  
Glass InsertsFlat Bottom Amber  
Glass Inserts

## Glass Inserts in Loader

Cat. No.	Type	Style	Volume	Qty
96FV05	Conical	Clear	0.5mL	96
96FV10	Conical	Clear	1.0mL	96
96FV05A	Conical	Amber	0.5mL	96
96FV10A	Conical	Amber	1.0mL	96
96VL05	Flat Bottom	Clear	0.5mL	96
96VL10	Flat Bottom	Clear	1.0mL	96
96VL05A	Flat Bottom	Amber	0.5mL	96
96VL10A	Flat Bottom	Amber	1.0mL	96

## SILANIZED Glass Inserts in Loader

Cat. No.	Type	Style	Volume	Qty
96FV05-S	Conical	Clear	0.5mL	96
96FV10-S	Conical	Clear	1.0mL	96
96VL05-S	Flat Bottom	Clear	0.5mL	96
96VL10-S	Flat Bottom	Clear	1.0mL	96

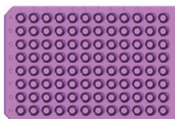
## Bulk, Loose Glass Inserts

Cat. No.	Type	Style	Volume	Qty
96F005	Conical	Clear	0.5mL	100
96F010	Conical	Clear	1.0mL	100
96F005A	Conical	Amber	0.5mL	100
96F010A	Conical	Amber	1.0mL	100
96F605	Flat Bottom	Clear	0.5mL	100
96F610	Flat Bottom	Clear	1.0mL	100
96F605A	Flat Bottom	Amber	0.5mL	100
96F610A	Flat Bottom	Amber	1.0mL	100

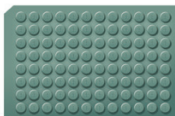
\* 1.5mL and 2.0mL volumes are available

## Cap Mats For Flexi-Tier & Aluminum Collection Systems

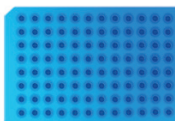
965075



963670



967702

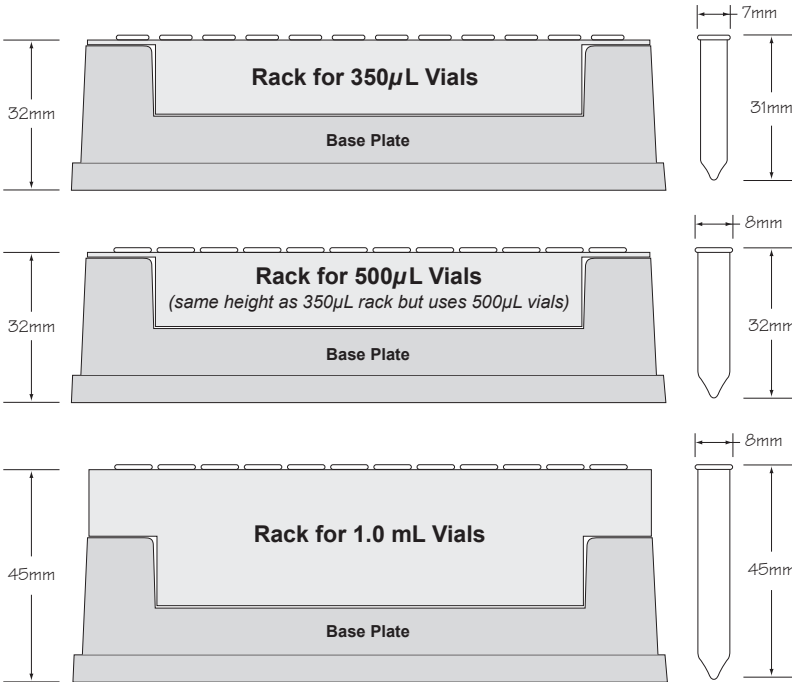
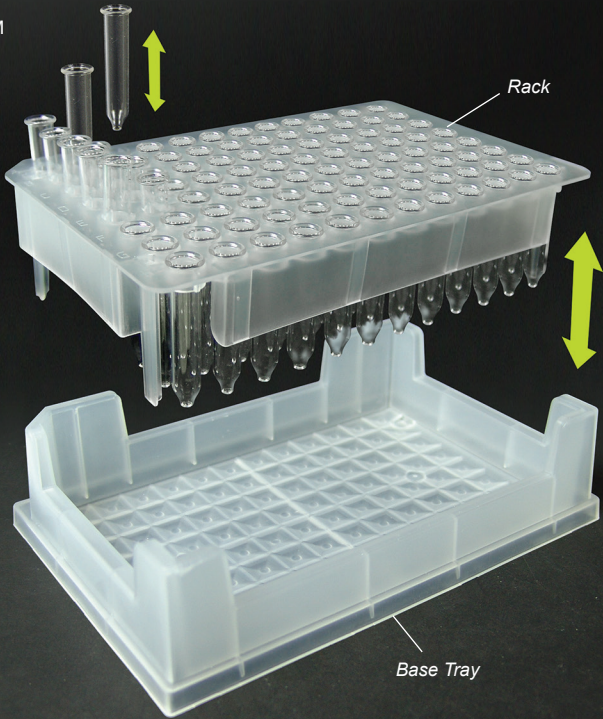


Cat. No.	Description	Qty
965007	Ultra Thin Round Well, Soft Silicone/PTFE, <b>Purple</b>	5
965075	<b>Pre-Slit</b> Ultra Thin Round Well, Soft Silicone/PTFE, <b>Purple</b>	5
963675	Round Well, Silicone/PTFE, <b>Green</b>	5
963670	<b>Pre-Slit</b> Round Well, Silicone/PTFE, <b>Green</b>	5
96057	1mL Autosampler Compatible Round Cap Mat, PP with 'X' on Surface, Clear	20
967702	Round Well Molded Soft Silicone, <b>Blue</b>	5
967701	<b>Pre-Slit</b> Round Well Molded Soft Silicone, <b>Blue</b>	5
964007	Ultra Thin Round Well w/ Molded Soft Silicone, Clear	5
96FSC3STRIP	Pre-Scored Molded PTFE/Silicone 8 Position Strip Liner	12
96FSC3PLUG	Pre-Scored Molded PTFE/Silicone Single Plug	100
96FSC2STRIP	Molded PTFE/Silicone 8 Position Strip Liner, White	12
96FSC2-12	Molded PTFE/Silicone 12 Position Strip Liner, White	8
96FSC2PLUG	Molded PTFE/Silicone Single Plug, White	100

# Select-A-Vial™

## Vial Insert/Rack System

- 96-Well Format
- Universal Base
- 3 Volume/Rack Options
- Accommodates 350µL, 500µL or 1mL Vials
- Seal with Cap Mats



Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.

## 96 Position Select-A-Vial - Complete System

Cat. No.	Description	Qty
27350	350µL Clear Conical Glass Inserts in Rack and Base Tray	Each
27350S	350µL <b>SILANIZED</b> Conical Glass Inserts in Rack and Base Tray	Each
27500	500µL Clear Conical Glass Inserts in Rack and Base Tray	Each
27500S	500µL <b>SILANIZED</b> Conical Glass Inserts in Rack and Base Tray	Each
27001	1.0mL Clear Conical Glass Inserts in Rack and Base Tray	Each
27001S	1.0mL <b>SILANIZED</b> Conical Glass Inserts in Rack and Base Tray	Each

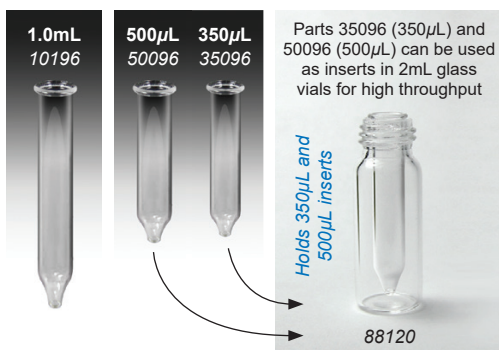
## Assembled Glass Inserts in Racks Only

Cat. No.	Description	Qty
35078	350µL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg
35078S	350µL <b>SILANIZED</b> Conical Glass Inserts in Rack Only	6 Racks/Pkg
50078	500µL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg
50078S	500µL <b>SILANIZED</b> Conical Glass Inserts in Rack Only	6 Racks/Pkg
10178	1.0mL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg
10178S	1.0mL <b>SILANIZED</b> Conical Glass Inserts in Rack Only	6 Racks/Pkg

## Bulk, Loose Conical Glass Inserts

Cat. No.	Description	Qty
35096	350µL Glass Inserts	100
35096S	350µL <b>SILANIZED</b> Inserts	100
50096	500µL Clear Inserts	100
50096S	500µL <b>SILANIZED</b> Inserts	100
10196	1.0 mL Clear Inserts	100
10196S	1.0 mL <b>SILANIZED</b> Inserts	100

**\*Can be used as inserts in glass vials**



## Base Tray

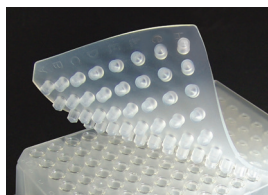
Cat. No.	Description	Qty
20096	Clear Base for All Racked Glass Inserts	6

## Pre-Slit Silicone/PTFE Cap Mat for Select-A-Vial For 350µL Vials

Cat. No.	Description	Qty
35085	<b>Pre-Slit</b> Silicone/PTFE Cap Mat for 350µL Conical Inserts	5

## Beige Rubber Cap Mats for Select-A-Vial

Cat. No.	Description	Qty
35070	Rubber Cap Mat for <b>350µL</b> Conical Inserts	5
35075	<b>Pre-Slit</b> Rubber Cap Mat for <b>350µL</b> Conical Inserts	5
96230	Rubber Cap Mat for <b>500µL</b> & <b>1mL</b> Conical Inserts	5
96235	<b>Pre-Slit</b> Rubber Cap Mat for <b>500µL</b> & <b>1mL</b> Conical Inserts	5



## 9mm Vials and Caps in Unassembled Kits



### 9mm Clear Tear Drop Vials & Caps in Unassembled Kits

Maximum Recovery - 12 x 32mm Vial, < 2 $\mu$ L Dead Volume

Cat. No.	Description	Qty
99260	1.5mL Clear Glass, PTFE/Silicone Lined Screw Cap	100
99290	1.5mL Clear Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100
99290A	1.5mL <b>Amber</b> Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100
87878	1.2mL Clear Glass, Assembled Screw Cap w/ PTFE/Silicone Liner	100
87878SL	1.2mL Clear Glass, Assembled Screw Cap w/ <b>Pre-slit</b> PTFE/Silicone Liner	100
86868SL	1.2mL Clear Glass, Assm. Screw Cap w/ <b>Pre-slit, Non-Bonded</b> PTFE/Silicone Liner	100



### 9mm Screw Vials with 300 $\mu$ L Fused Inserts & Caps in Unassembled Kits

Cat. No.	Description	Qty
99042	2mL Clear Glass, PTFE/Silicone Lined Screw Cap	100
99042A	2mL <b>Amber</b> Glass, PTFE/Silicone Lined Screw Cap	100
99024	2mL Clear Glass, <b>Pre-Slit</b> PTFE/Silicone Lined Screw Cap	100
99024A	2mL <b>Amber</b> Glass, <b>Pre-Slit</b> PTFE/Silicone Lined Screw Cap	100
99062	2mL Clear Glass, PTFE/Silicone/PTFE Lined Screw Cap	100
99062A	2mL <b>Amber</b> Glass, PTFE/Silicone/PTFE Lined Screw Cap	100



**SILANIZED 9mm Vials are also available. Please call for details.**

### 9mm Screw Caps

Cat. No.	Description	Qty
99669-Case	9mm Screw Caps with PTFE/Silicone Liners	1000
99669G-Case	9mm <b>Green</b> Screw Caps with PTFE/Silicone Liners	1000
99669R-Case	9mm <b>Red</b> Screw Caps with PTFE/Silicone Liners	1000
99669W-Case	9mm White Screw Caps with PTFE/Silicone Liners	1000

#### TECH TIP:

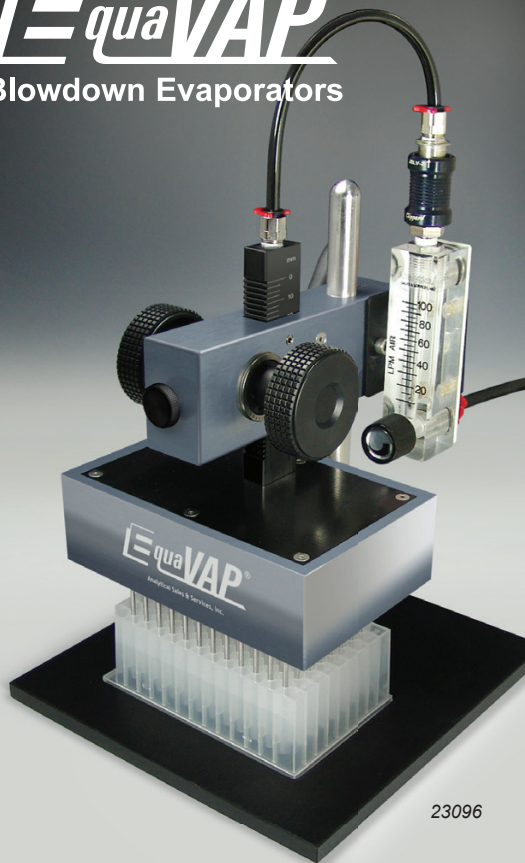
##### Bonded vs Non-bonded Caps

The liners in Bonded caps are sealed in place, which is beneficial if the injection needle is mis-aligned. Non-bonded caps do not have any glue on them which is beneficial for research in which wide-scanning may show this glue.

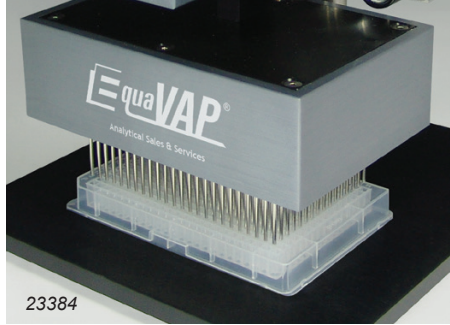


# EquaVAP®

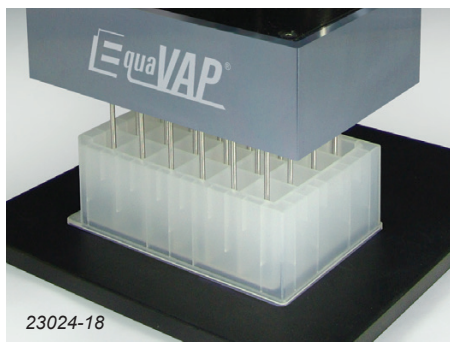
## Blowdown Evaporators



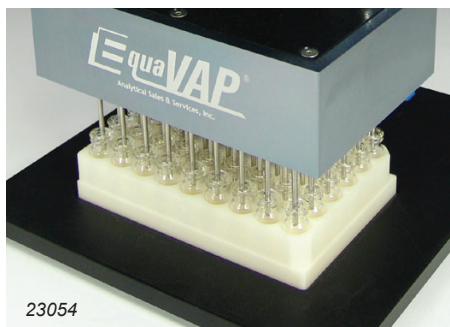
23096



23384



23024-18



23054

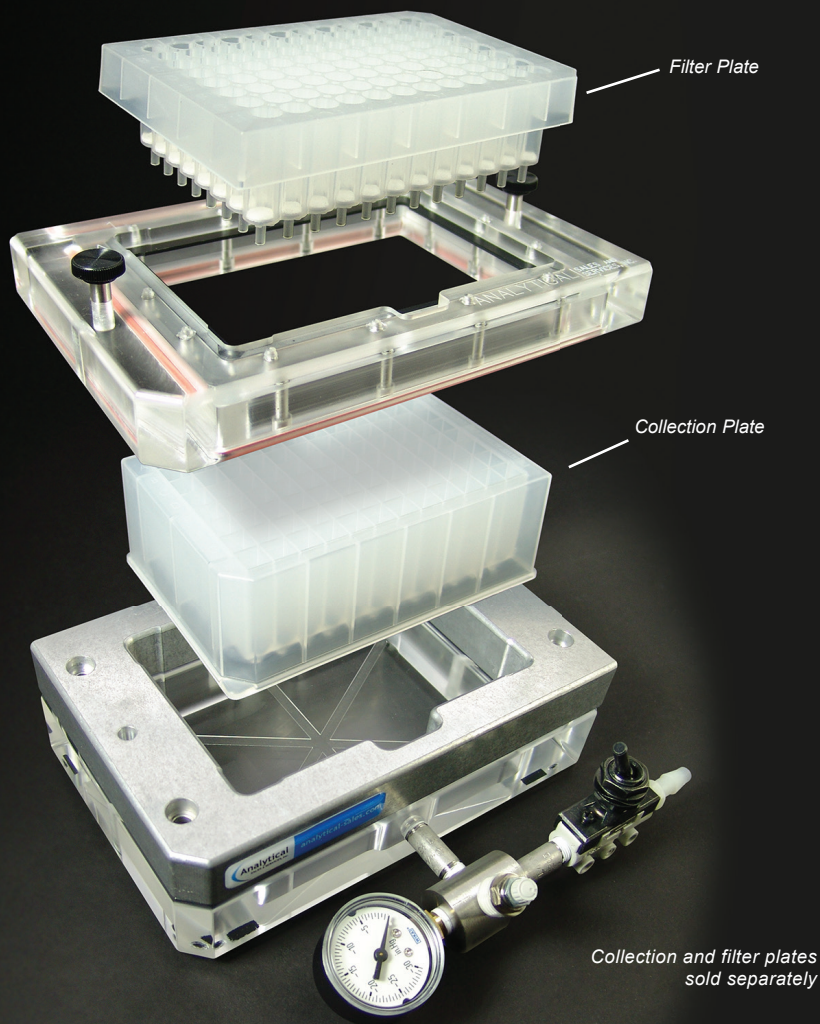
## ***Rapidly evaporates common organic solvents!***

- **Internal flow equalizers** - distributes equal output across all needle ports to ensure even and symmetrical evaporation.
- **Stainless Steel Needle Tips** - long term robust use, sturdy, wide solvent compatibilities
- **Step-down Height Adjustment** - offers positive repeatable height positions
- **Stand Alone** - simple to operate, connects to Nitrogen supply & standard socket
- **Small Footprint (8" base)** - fits into small glove boxes & standard fume hoods

## **EquaVAP® 96-, 54-, 48- and 24-Well Blowdown Solvent Evaporators**

Cat. No.	Description
23096	EquaVAP for 96-Well Polypropylene Collection Plates or Reaction Blocks
23024-18	EquaVAP for 24-Well PP Collection Plates, 18mm center-to-center needle distance
23054	EquaVAP for 2mL, 12 x 32mm Vials in 54-position Base Plate (part # 96054)
23384	EquaVAP for 384-Well Polypropylene Collection Plates
23048	EquaVAP for 48-Well Reaction Blocks





## Vacuum Manifold Filtration System for Sample Preparation

- Easy access to filtrate
- Adjustable vacuum control
- Sturdy, clear acrylic construction
- Collect into any storage plate
- Compatible with all standard filter bottom microplates

### Features:

- On/off Toggle Switch
- Pressure Gauge
- Pressure Adjustment Valve
- Spacers for shorter collection plates

### Cat. No. Description

96844	Vacuum Manifold Filtration System
-------	-----------------------------------

For a Faster,  
Cleaner Sample Extract!

**Best Seller**

### Advantage™ 1mL 96-Well Protein Crash Plates

*Our 1mL Protein Crash Plates are made under tight tolerances in our NJ facility. We're able to provide this product at a price point that makes protein precipitation plates a viable option once again!*

- Can be vacuumed or centrifuged
- Proprietary membrane produces optimized Protein Precipitation
- No metal frit to hold membrane in place
- Use for Plasma, Urine, and other bioanalysis samples
- Works on all current manual or automated processing instrumentation

Cat. No.	Description	Qty
60513	1mL Protein Crash 96 Well Plate	1
60513-5	1mL Protein Crash 96 Well Plate	5

### Advantage™ 2mL 96-Well Protein Crash Plates

Cat. No.	Description	Qty
60223	2mL Protein Crash Plate w/ Grated Screen	1
60223-5	2mL Protein Crash Plate w/ Grated Screen	5
60223-10	2mL Protein Crash Plate w/ Grated Screen	10
60223-25	2mL Protein Crash Plate w/ Grated Screen	25

### General Filtration 96-well Filter Plates

- After SPE
- Dilute and Shoot
- Use prior to LCMS and Microarraying
- Filtration of Tissue Culture Media, Antibiotics, Alcohols and protein Solutions

#### General Biological Filtration - Aqueous Sample

Cat. No.	Description	Qty
96620-10	1mL Nylon Filter Plate, 0.20µm	10
96210-10	2mL Nylon Filter Plate, 0.20µm	10
96110-10	1mL Nylon Filter Plate, 0.45µm	10
96255-10	2mL Nylon Filter Plate, 0.45µm	10

#### Low Protein Binding - Sample in Solvent

Cat. No.	Description	Qty
96152-10	1mL Hydrophilic PP, 0.20µm	10
96432-10	1mL Hydrophilic PVDF, 0.20µm	10
96465-10	2mL Hydrophilic PVDF, 0.20µm	10
96832-10	1mL Hydrophilic PVDF, 0.45µm	10
96835-10	2mL Hydrophilic PVDF, 0.45µm	10
96155-10	1mL Hydrophilic PP, 0.45µm	10
96245-10	2mL Hydrophilic PP, 0.45µm	10
96205-25	2mL, Glass Fiber, 5.0µm	25
96760	2mL, Glass Membrane, 0.7µm, Long Drip	25
96232-10	2mL, PTFE Membrane, 0.2µm	10
962225	2mL, PE Membrane, 25µm, Long Drip	25

96832-10

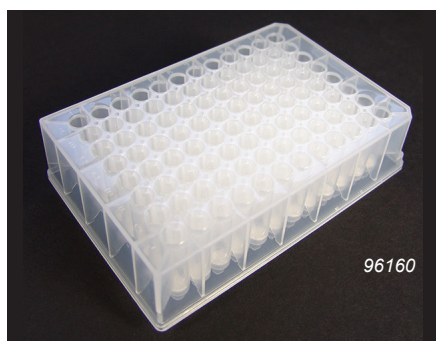
962225



964PP20



96222-10



96160



## Drug Discovery 96-Well Filter Plates

- Low Protein Binding
- General Filtration

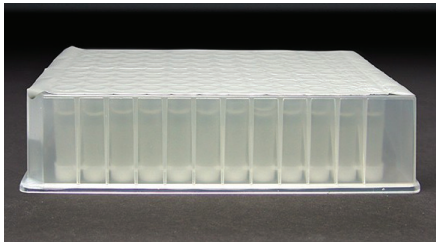
Cat. No.	Description	Qty
96122-10	1mL Hydrophobic PP, 0.20μm	10
96222-10	2mL Hydrophobic PP, 0.20μm	10
96154-10	1mL Hydrophobic PP, 0.45μm	10
96254-10	2mL Hydrophobic PP, 0.45μm	10
964PP20	400μL Hydrophobic PP, 0.20μm	25
964PP45	400μL Hydrophobic PP, 0.45μm	25
96045	800μL Hydrophobic PP, 0.45μm, Long Drip	25
968PV20	800μL PVDF, 0.20μm	25
960985	300μL, Glass Membrane, 1.0μm	50
960400	400μL, Glass Membrane, 1.0μm	25

## DME 96-Well Filter Plate

Cat. No.	Description	Qty
96160-1	1mL Diatomaceous Earth Filter Plate	Ea
96160-5	1mL Diatomaceous Earth Filter Plate	5
96260-1	2mL Diatomaceous Earth Filter Plate	Ea
96260-5	2mL Diatomaceous Earth Filter Plate	5

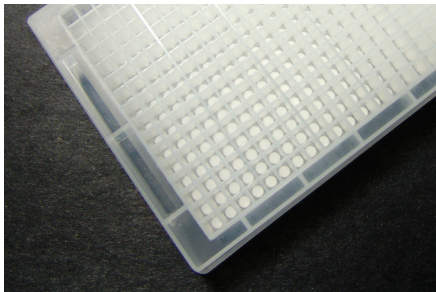
## Molecular Weight Cut-off (MWCO) 96-Well Filter Plates

Cat. No.	Description	Qty
964014	400μL, 10KDa PES Membrane	25
964016	400μL, 30KDa PES Membrane	25
964097	400μL, 100KDa PES Membrane	25
964099	400μL, 300KDa PES Membrane	25
967101	750μL, 100KDa PES Membrane	Each
967102	750μL, 200KDa PES Membrane	Each
967103	750μL, 300KDa PES Membrane	Each
967201	750μL, 100KDa PVDF Membrane	Each
967202	750μL, 200KDa PVDF Membrane	Each
967225	750μL, 250KDa PVDF Membrane	Each
967205	750μL, 500KDa PVDF Membrane	Each
967208	750μL, 800KDa PVDF Membrane	Each



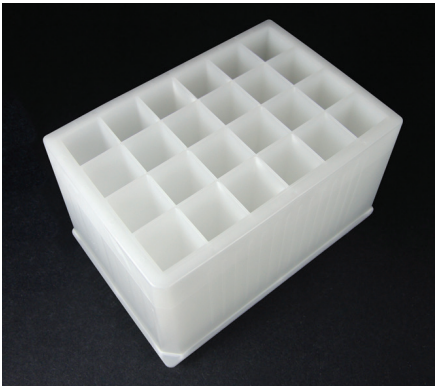
## Desalting Plates

Cat. No.	Description
96DP300	96 Well Protein Desalting Plate, 300μL
384DP140	384 Well Protein Desalting Plate, 140μL
384PDP140	384 Well Peptide Desalting Plate, 140μL



## 384-well Membrane Filter Plates

Cat. No.	Description	Qty
38407	140μL, Glass Fiber, 0.7μm	10
38412	140μL, Glass Fiber, 1.2μm	10
38405	140μL, Glass Fiber, 5.0μm	10
384451	140μL, PVDF, .045μm, Long Drip	10



## 24-well Membrane Filter Plates

Cat.No.	Description	Qty
24152	25μm PE Frit, 15mL Volume	15
24463	0.45μm PVDF Membrane, 10mL/well, Long Drip	25
24465	0.2μm PVDF Membrane, 10mL/well, Long Drip	25
24467	0.45μm PES Membrane, 10mL/well, Long Drip	25
24469	0.2μm PES Membrane, 10mL/well, Long Drip	25
24171	25μm PE Membrane, 10mL/well, Long Drip	25
241010	10μm Hydrophobic PP, 15mL Volume	25
2415SCX500	SCX SPE, 15ml/500mg Bed Volume	Ea



## 48-well Membrane Filter Plates

Cat. No.	Description	Qty
48655	5mL, 25μm PE Frits, Extra Long Drip	25
48025	5mL, 25μm PE Frits, Long Drip	25



# SPE PRODUCTS SELECTION GUIDE

## STATIONARY PHASE SELECTION

Matrix	Aqueous (Water, Biological Fluids, Aqueous Extracts)					Organic (Oil, Hexane/Dichloromethane Extract of Tissue, etc)						
Type of Sorbent	Reversed Phase				Ion - Exchange			HILIC				
Analyte Characteristics	Non Polar to Moderate Polar				Strong Cation Strong Anion		Weak Cation WEak Anion		Polar to Moderate Polar			
Sorbents	C18	C4	C8	PFP	NH2	WCX/ WAX	SCX/ SAX	Silica	Al	Florisil	Diol	CN
Applications	Pesticides Drug / Metabolites Drugs of Abuse		Peptides		Sugar Pigments		Biomass Petroleum		Drugs / Metabolite Strong Acid / Base		Pesticides	Lipids Food Additives
Sorbents	C18 C4		C8 C4 SCX		NH2 PSA		PFP NH2		WCX WAX		Silica Florisil Al CN	

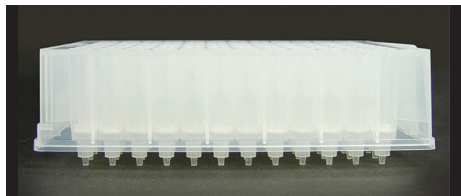
### PRODUCT NOTE:

For your method development convenience, we have standard microcentrifuge tubes along with ones that contain MWCO filters.



## Advantage™ 1mL, 96-Well Solid Phase Extraction Plates

Our silica based sorbents resist occlusion by proteinaceous materials from samples. We combine size exclusion and absorption chromatography for better flow characteristics, enhanced detection and cleaner extracts. Individually fritted wells eliminates cross talk.



### Poly DVB

For reversed-phase cleanup of acidic, basic and neutral compounds form complex sample matrices

Cat. No.	Description
961PD30	Poly DVB, 1mL/30mg Bed
961PD50	Poly DVB, 1mL/50mg Bed
961PD100	Poly DVB, 1mL/100mg Bed

### Ion Exchange - Polymer Based

#### Strong Anion Exchanger (SAX)

961ASA30	SAX, 1mL/30 mg Bed
961ASA50	SAX, 1mL/50 mg Bed
961ASA100	SAX, 1mL/100mg Bed

#### Strong Cation Exchanger (SCX)

961ASC30	SCX, 1mL/30 mg Bed
961ASC50	SCX, 1mL/50 mg Bed
961ASC100	SCX, 1mL/100 mg Bed

#### Weak Anion Exchanger (WAX)

961AWA30	WAX, 1mL/30mg Bed
961AWA50	WAX, 1mL/50mg Bed
961AWA100	WAX, 1mL/100mg Bed

#### Weak Cation Exchanger (WCX)

961AWC30	WCX, 1mL/30mg Bed
961AWC50	WCX, 1mL/50mg Bed
961AWC100	WCX, 1mL/100mg Bed

### Ion Exchange - Silica Based

#### Strong Anion Exchanger (SAX)

9610SAX25	SAX, 1.0mL/25mg Bed
9610SAX50	SAX, 1.0mL/50mg Bed
9610SAX100	SAX, 1.0mL/100mg Bed

#### Strong Cation Exchanger (SCX)

9610SCX25	SCX, 1.0mL/25mg Bed
9610SCX50	SCX, 1.0mL/50mg Bed
9610SCX100	SCX, 1.0mL/100mg Bed

### Reversed Phase

#### Reversed Phase C2

Cat. No.	Description
9610C225	C2, 1.0mL/25mg Bed
9610C250	C2, 1.0mL/50mg Bed
9610C2100	C2, 1.0mL/100mg Bed

#### Reversed Phase C4

9610C450	C4, 1.0mL/50mg Bed
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#### Reversed Phase C8

9610C825	C8, 1.0mL/25mg Bed
9610C850	C8, 1.0mL/50mg Bed
9610C8100	C8, 1.0mL/100mg Bed

#### Reversed Phase C18

9610C1825	C18, 1.0mL/25mg Bed
9610C1850	C18, 1.0mL/50mg Bed
9610C18100	C18, 1.0mL/100mg Bed

#### Reversed Phase Phenyl

9610PH25	Phenyl, 1.0mL/25mg Bed
9610PH50	Phenyl, 1.0mL/50mg Bed
9610PH100	Phenyl, 1.0mL/100mg Bed

### Normal Phase

#### Silica

9610Si25	Silica, 1.0mL/25mg Bed
9610Si50	Silica, 1.0mL/50mg Bed
9610Si100	Silica, 1.0mL/100mg Bed

#### Diol

9610DI25	Diol, 1.0mL/25mg Bed
9610DI50	Diol, 1.0mL/50mg Bed
9610DI100	Diol, 1.0mL/100mg Bed

#### Cyanol (CN)

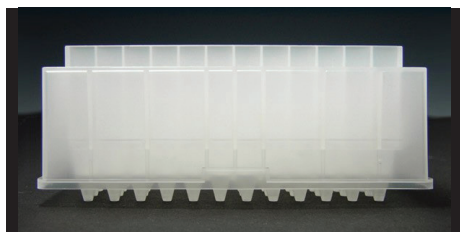
9610CN25	Cyano, 1.0mL/25mg Bed
9610CN50	Cyano, 1.0mL/50mg Bed
9610CN100	Cyano, 1.0mL/100mg Bed

#### Amino (NH)

9610NH25	Amino, 1.0mL/25mg Bed
9610NH50	Amino, 1.0mL/50mg Bed
9610NH100	Amino, 1.0mL/100mg Bed

## Advantage™ 2mL, 96-Well Solid Phase Extraction Plates

Each well is individually fritted. Our 2.2mL/well SPE plates are manufactured from virgin medical grade polypropylene and have a standard footprint. The larger exit diameter of our wells enables a faster flow rate. Applications: Samples prepared in solid-phase extraction in drug development, drug analysis and pharmacokinetics.



### Poly DVB

For reversed-phase cleanup of acidic, basic and neutral compounds form complex sample matrices

Cat. No.	Description
962PD030	Poly DVB, 2mL, 30 mg
962PD050	Poly DVB, 2mL, 50 mg
962PD100	Poly DVB, 2mL, 100 mg

### Ion Exchange - Polymer Based

#### Strong Anion Exchanger (SAX)

962ASA30	SAX, 2mL/30 mg Bed
962ASA50	SAX, 2mL/50 mg Bed
962ASA100	SAX, 2mL/100mg Bed

#### Strong Cation Exchanger (SCX)

962ASC30	SCX, 2mL/30 mg Bed
962ASC50	SCX, 2mL/50 mg Bed
962ASC100	SCX, 2mL/100 mg Bed

#### Weak Anion Exchanger (WAX)

962AWA30	WAX, 2mL/30mg Bed
962AWA50	WAX, 2mL/50mg Bed
962AWA100	WAX, 2mL/100mg Bed

#### Weak Cation Exchanger (WCX)

962AWC30	WCX, 2mL/30mg Bed
962AWC50	WCX, 2mL/50mg Bed
962AWC100	WCX, 2mL/100mg Bed

### Ion Exchange - Silica Based

#### Strong Anion Exchanger (SAX)

9620SAX25	SAX, 2.0mL/25mg Bed
9620SAX50	SAX, 2.0mL/50mg Bed
9610SAX100	SAX, 2.0mL/100mg Bed

#### Strong Cation Exchanger (SCX)

9620SCX25	SCX, 2.0mL/25mg Bed
9620SCX50	SCX, 2.0mL/50mg Bed
9620SCX100	SCX, 2.0mL/100mg Bed

### Reversed Phase

#### Reversed Phase C2

Cat. No.	Description
9620C225	C2, 2.0mL/25mg Bed
9620C250	C2, 2.0mL/50mg Bed
9620C2100	C2, 2.0mL/100mg Bed

#### Reversed Phase C4

9620C425	C4, 2.0mL/25mg Bed
9620C450	C4, 2.0mL/50mg Bed
9620C4100	C4, 2.0mL/100mg Bed

#### Reversed Phase C8

9620C825	C8, 2.0mL/25mg Bed
9620C850	C8, 2.0mL/50mg Bed
9620C8100	C8, 2.0mL/100mg Bed

#### Reversed Phase C18

9620C1825	C18, 2.0mL/25mg Bed
9620C1850	C18, 2.0mL/50mg Bed
9620C18100	C18, 2.0mL/100mg Bed

#### Reversed Phase Phenyl

9620PH25	Phenyl, 2.0mL/25mg Bed
9620PH50	Phenyl, 2.0mL/50mg Bed
9620PH100	Phenyl, 2.0mL/100mg Bed

### Normal Phase

#### Silica

9620Si25	Silica, 2.0mL/25mg Bed
9620Si50	Silica, 2.0mL/50mg Bed
9620Si100	Silica, 2.0mL/100mg Bed

#### Diol

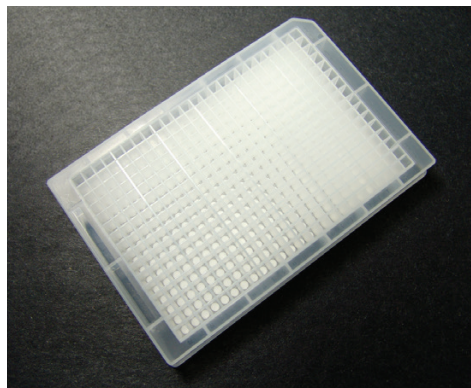
9620DI25	Diol, 2.0mL/25mg Bed
9620DI50	Diol, 2.0mL/50mg Bed
9620DI100	Diol, 2.0mL/100mg Bed

#### Cyanol (CN)

9620CN25	Cyano, 2.0mL/25mg Bed
9620CN50	Cyano, 2.0mL/50mg Bed
9620CN100	Cyano, 2.0mL/100mg Bed

#### Amino (NH)

9620NH25	Amino, 2.0mL/25mg Bed
9620NH50	Amino, 2.0mL/50mg Bed
9620NH100	Amino, 2.0mL/100mg Bed



## Advantage™ 24 and 384-Well Solid Phase Extraction Plates

Cat. No.	Description
2410200	Poly DVB SPE, 24-Well, 10mL filter plate, 200mg / well
2410300	Poly DVB SPE, 24-Well, 10mL filter plate, 300mg / well
384603	Poly DVB SPE, 384 Well filter plate, 3mg / well
384610	Poly DVB SPE, 384 Well filter plate, 10mg / well
384AWA03	Polymer Based Weak Anion Exchange SPE, 140μL, 384 Well Filter Plate, 3.0 mg per well

## Molecular Weight Cut-Off Centrifuge Filters

### Nucleotide Concentration, 100,000 MWCO

For use in concentration of DNA and RNA with at least 200 base pairs.

### Polymerized Chain Reaction Clean-Up, 30,000 MWCO

Useful for the removal of primers and salts from polymerized chain reaction samples.

### Protein Removal of Concentration, 5,000 to 300,000 MWCO

Choose a MWCO that is lower than the molecular weight of the protein of choice.



## MWCO Micro Spin Filters

### 800μL Capacity w/ 2mL Receiver Tubes

**PES** = Polyethersulfone

- Ideal for use in Life Science Applications to Remove Particulates During General Filtration
- Low Protein and Drug Binding Characteristics

**PVDF** = Polyvinylidene Fluoride

- Sterilizing Filtration of Biological Solutions
- Clarifying Filtration of Biological Solutions
- Provides High Flow Rates & Throughput
- Low Extractability & Broad Chemical Compatibility
- Hydrophobic

Cat. No.	Description	Qty
8690-01	PES Membrane, 1K	100
8690-03	PES Membrane, 3K	100
8690-05	PES Membrane, 5K	100
8690-10	PES Membrane, 10K	100
8690-30	PES Membrane, 30K	100
8690-50	PES Membrane, 50K	100
8690-100	PES Membrane, 100K	100
8690-300	PES Membrane, 300K	100
7833-30	PVDF Membrane, 30K	100
7833-100	PVDF Membrane, 100K	100
7833-250	PVDF Membrane, 250K	100

## Echelon™ C18 Columns



### Ultra High Density End Capping

#### Unique Features:

- Ideal for Basic and Acidic Analytes
- Wide pH Range Stability
- High Capacity
- No secondary Si-OH interaction
- No metal contamination
- Extreme hydrophobicity range

#### Physical Properties:

- Particle sizes: 4.5µm and 10µm
- Pore Size: 100Å
- Surface Area: 430m<sup>2</sup>/gm
- Functionality: Monomeric C18
- %C (w/w): 18%
- End Capping: Proprietary and extremely exhaustive.

#### Standard Sizes:

- Special products for LC-MS
- 0.075 - 20mm I.D. range
- Cartridge and Column versions
- PEEK/titanium as well as s.s. format

## Sprite™ Echelon™ Direct Connect C18 HPLC Columns

- Sizes 1.0 to 4.0cm x 2.1mm ID
- Fast HPLC analysis
- LC-MS applications
- PEEK/titanium design
- Individually tested and certified



Cat. No.	Description	Qty
Sprite AE1842	4.0cm x 2.1mm ID	Each
Sprite AE1822	2.0cm x 2.1mm ID	Each
Sprite AE1832	1.0cm x 2.1mm ID	Each

## Echelon™ Analytical Columns

### C18 4µm

Cat. No.	Description	Qty
ADV8021	3.0cm x 2.1mm ID	Each
ADV8008	5.0cm x 2.1mm ID	Each
ADV8009	10.0cm x 2.1mm ID	Each
ADV8010	15.0cm x 2.1mm ID	Each

## Echelon™ <2µm Columns

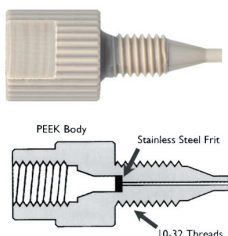
Particle size: 1.7µm Pore size: 100Å

C18		Internal Diameter (mm)
		2.1
		Cat. No.
Length (cm)	2	ADV8106
	3	ADV8107
	5	ADV8108
	10	ADV8117

## Echelon™ 3µm Columns

Particle size: 3µm Pore size: 100Å

C18		Internal Diameter (mm)
		2.1
		Cat. No.
Length (cm)	2	ADV8302
	3	ADV8303
	5	ADV8304
	10	ADV8305



## Direct Connect One Piece PEEK™ HPLC Pre-Column Inline Filter Guard

- Connects with 1/16" tubing and 10-32 threading
- Changes in seconds! No tools necessary!
- Rated to 5,000psi

Cat. No.	Description	Qty
1605	Advantage™ 0.5µm Direct Connect Inline Filter Guard	Each
1620	Advantage™ 2.0µm Direct Connect Inline Filter Guard	Each





## Echelon™ C18 Columns

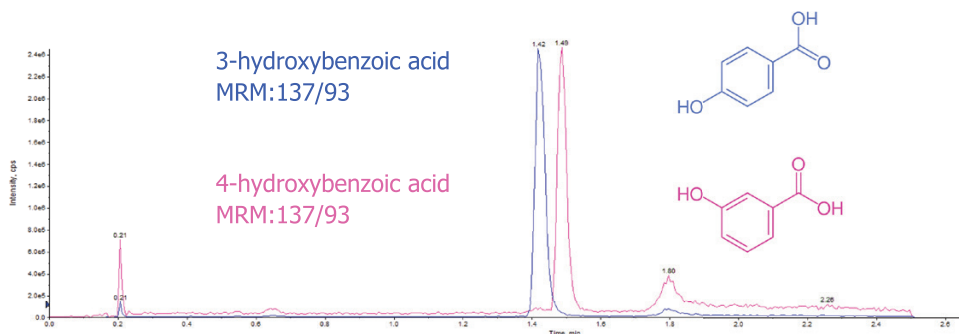
### Providing Retention Beyond Other C18

The role our unique C18 (Echelon) can fill in your lab:

- As a go-to all around column for small, polar, low-molecular weight compounds, that might not typically retain on a C18.
- For compounds that would either be ran on a polar column (e.g. Waters T3 HSS, or Phenomenex Synergi-RP) – which might show marginal improvement over a generic C18, or most likely have to be run as HILIC, or even SFC. Those last two options are not ideal for a fast pace work-flow as they take a lot of upfront method development to optimize retention.

Examples of where Echelon C18 was able to get great retention where “typical” C18 failed:

- Benzoic acid– Almost baseline resolved for two isomers on Echelon C18 (see overlaid chromatograms below).
- Acyclovir – Which can be used as a HILIC internal standard, still retains well on Echelon C18 with reverse phase chromatography.



*Chromatograms of two separate injections of the isomers overlaid for easier comparison.*

**Instrumentation:** LC-MS/MS Triple quadrupole; UHPLC pressures 50x2.1mm, 1.8um (PN ADV8108)

## Adjustable Post-Column Flow Splitters

### Model 62 - For Post Column Applications

- Adjustable metering for precise direct control
- Fluid resistor technology
- Low dead volume
- 5,000 PSI valve limit
- Bracket mounted, rugged steel design

#### Analytical Range - 0.1-5mL/min Incoming Flow

Cat. No.	Description
62-414	with -06 Resistor Cartridge, Ratio 1:1-20:1
62-413	with -04 Resistor Cartridge, Ratio 5:1-100:1
62-412	with -03 Resistor Cartridge, Ratio 15:1-250:1



#### Replacement Resistor Cartridges for Adjustable Post-Column Flow Splitter

Cat. No.	Description	Qty
61-115	Replacement -06 Resistor Cartridge, Ratio 1:1-20:1	Each
61-114	Replacement -04 Resistor Cartridge, Ratio 4:1-100:1	Each
61-113	Replacement -03 Resistor Cartridge, Ratio 15:1 - 250:1	Each

#### Replacement Inlet Filters for Adjustable Post-Column Flow Splitter

Cat. No.	Description	Qty
66-063	Replacement Inlet Filter, 2µm x 0.063 diameter	5

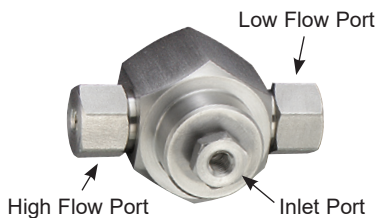
## Fixed Post-Column Binary Flow Splitters

### Models 63 - For Post Column Applications

- Fixed metering for precise control
- Fluid resistor technology
- Low dead volume
- Rugged stainless steel design

#### Analytical Range - 0.1-5mL/min Incoming Flow

Cat. No.	Description	Qty
63-423	Binary Fixed Splitter, Ratio 1:1	Ea
63-422	Binary Fixed Splitter, Ratio 3:1	Ea
63-424	Binary Fixed Splitter, Ratio 4:1	Ea
63-421	Binary Fixed Splitter, Ratio 5:1	Ea
63-420	Binary Fixed Splitter, Ratio 10:1	Ea



#### Replacement Resistors for Fixed Post-Column Binary Flow Splitters

Cat. No.	Description	Qty
63-443	Replacement Resistor, Ratio 1:1	Ea
63-442	Replacement Resistor, Ratio 3:1	Ea
63-441	Replacement Resistor, Ratio 5:1	Ea
63-440	Replacement Resistor, Ratio 10:1	Ea

### Replacement Inlet Filters

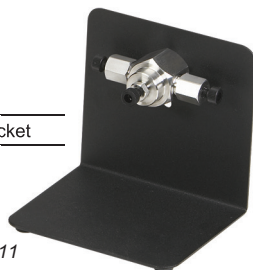
for Binary Fixed Flow Splitter Model 63

*Replacing the inlet filter prevents clogging of the splitter*

Cat. No.	Description	Qty
77-125	Replacement Binary Inlet Filter, 2µm x 0.063 Dia.	5

## Accessories

Cat. No.	Description
63-111	Mounting Bracket

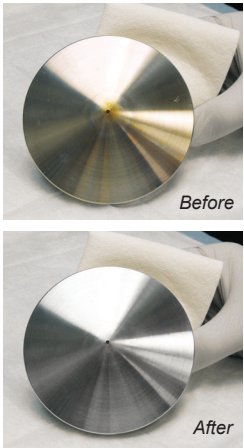
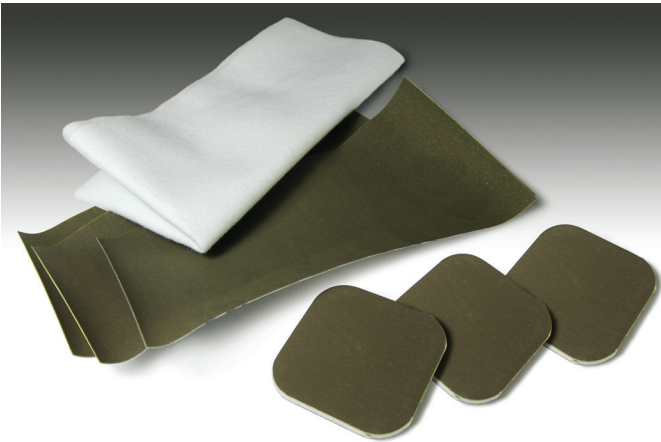




### Infusion Kits

Each Kit contains one syringe, adapter, fittings, tubing, PEEK tee connection, and one standard replacement needle.

Cat. No.	Description	Volume	Qty
44405	Infusion Kit	50 $\mu$ L	Each
44401	Infusion Kit	100 $\mu$ L	Each
44425	Infusion Kit	250 $\mu$ L	Each
44450	Infusion Kit	500 $\mu$ L	Each
44410	Infusion Kit	1.0mL	Each
44420	Infusion Kit	2.5mL	Each
55510	Infusion Kit	10mL	Each
55525	Infusion Kit	25mL	Each



### Mass Spec Polishing Kit

Clean the curtain plate and orifice of your Mass Spec source.

**Kit Contains:**

- 3 cleaning sheets
- 3 cleaning pads
- 1 Flannel Polishing Cloth

Cat. No.	Description	Qty
67001	Mass Spec Polishing Kit	Each

# FlexChrom®

Flexible Stainless Steel Tubing

1/16" OD Flexible SS Tubing  
with SS Fingertight Fittings

UHPLC, Pre-Finished, One-Piece  
Flexible Stainless Steel Tubing  
with Finger Tight Stainless  
Steel Fittings

Rated to 27,000 psi

Tubing bends easily  
to fit into tight or hard  
to reach spaces

- 1/16" O.D.
- True ZDV
- Greater flexibility
- Thin, Durable Tubing  
Will Not Crack or Snap
- One-Piece Stainless Steel

## Stopper O-ring

Prevents backward travel of  
Locking Cap when connecting  
or disconnecting fitting.

Two-part Finger Tight  
Stainless Steel Fitting -  
"locks in" ferrule and tubing

1/16" OD at tubing ends

## Stainless Steel Tubing with No End Fittings

Cat. No.	Dimensions	Qty
990041-Flex	10cm x 0.004"ID	Each
990011-Flex	10cm x 0.005"ID	Each
930011-Flex	10cm x 0.007"ID	Each
990042-Flex	20cm x 0.004"ID	Each
990015-Flex	20cm x 0.005"ID	Each
930015-Flex	20cm x 0.007"ID	Each
990043-Flex	30cm x 0.004"ID	Each
990028-Flex	30cm x 0.005"ID	Each
930028-Flex	30cm x 0.007"ID	Each



## Single UHPLC Assembly

Cat. No.	Dimensions	Qty
990141-Flex	10cm x 0.004"ID	Each
990111-Flex	10cm x 0.005"ID	Each
930111-Flex	10cm x 0.007"ID	Each
990142-Flex	20cm x 0.004"ID	Each
990115-Flex	20cm x 0.005"ID	Each
930115-Flex	20cm x 0.007"ID	Each
990143-Flex	30cm x 0.004"ID	Each
990128-Flex	30cm x 0.005"ID	Each
930128-Flex	30cm x 0.007"ID	Each



## Double UHPLC Assembly

Cat. No.	Dimensions	Qty
990241-Flex	10cm x 0.004"ID	Each
990211-Flex	10cm x 0.005"ID	Each
930211-Flex	10cm x 0.007"ID	Each
990242-Flex	20cm x 0.004"ID	Each
990215-Flex	20cm x 0.005"ID	Each
930215-Flex	20cm x 0.007"ID	Each
990243-Flex	30cm x 0.004"ID	Each
990228-Flex	30cm x 0.005"ID	Each
930228-Flex	30cm x 0.007"ID	Each





**Controls 1 Gen II HotSleeve+ column heater\***



**Controls up to 4 Gen II HotSleeve+ column heaters\***

Cat. No.	Description
Monocon	Monocon Gen II Single Column Heater Sleeve Controller
Multicon	Multicon Gen II Multiple Column Heater Sleeve Controller

## Gen II Column Heater Controllers

The **Monocon™** and **Multicon™** are the latest column heater controllers from Analytical. They are the next generation of the original MonoSleeve™ and MultiSleeve™, and control Analytical's new **Gen II HotSleeve+** sleeve column heaters.

*Significant new features include:*

### Touchscreen Interface

- Provides simple and intuitive interaction with the device
- Provides greater utility to operators by allowing for gloved operation
- Tabbed, modern and familiar

### Continuous Display of Critical Performance Data, Including:

- Current temperature
- Set point temperature
- Elapsed time or time remaining until automated cutoff
- Activation status of heating unit
- Specifications and parameters of active heaters

### High Power Operation

- Support for heaters with a temperature range of 5°C above ambient to 130°C
- Faster heater to-temperature time allowing for decreased downtime

*\* Use with Gen II HotSleeve+ heaters. Gen II AgileSleeve+ heaters will be available soon, call for details.*

## Gen II HotSleeve+

The **Gen II HotSleeve+** is the second generation of the HotSleeve+ column heater, and the third iteration of the original Hot Sleeve.

### Cat. No. Description

HS2-5L	Gen II, HotSleeve+ Heater for 5cm Columns
HS2-10L	Gen II, HotSleeve+ Heater for 10cm Columns
HS2-15L	Gen II, HotSleeve+ Heater for 15cm Columns
HS2-25L	Gen II, HotSleeve+ Heater for 25cm Columns
HS2-30L	Gen II, HotSleeve+ Heater for 30cm Columns



**IMPORTANT:** Gen II HotSleeve+ heaters can only be used with Gen II controllers (Monocon or Multicon)

# Canary-Safe™

Mobile Phase Safety Caps, Waste Caps,  
Air Filters and Accessories



**Keep your lab safe from harmful solvent vapors!**

## Mobile Phase Bottle Safety Caps

Incoming Air

Outgoing Mobile Phase

### Filter Check Valve

A one-way valve that filters incoming air as solvent is drawn out and keeps harmful vapors from escaping.

### PTFE Body

Rotates freely within the screw cap (until tightened) allowing for easy removal of cap without twisting or tangling tubing lines.

### Screw Cap

### Viton O-ring

Ensures air-tight seal between cap and mobile phase bottle

Tubing

Mobile Phase



CX0001



CX0009



CX0002

## Replacement Filter Check Valves

- Fits Canary-Safe™ mobile phase safety caps
- Replace every 6 months for optimum protection.

Cat. No.	Description	Qty
CX0001	Replacement Filter Check Valve	Each
CX0009	Reverse Check Valve	Each
CX0002	PREP Size Check Valve	Each



## Mobile Phase Bottle Safety Caps – GL45 Thread

Cat No.		Qty
CC1001	CS Cap 1, GL45, 1 Standard Port for 1/8" OD Tubing	Each
CC1002	CS Cap 2, GL45, 2 Standard Ports for 1/8" OD Tubing	Each
CC1003	CS Cap 3, GL45, 3 Standard Ports for 1/8" OD Tubing	Each
CC1004	CS Cap 4, GL45, 4 Standard Ports for 1/8" OD Tubing	Each

Other Safety Cap configurations are available on our web site



## GL38 Mobile Phase Bottle Safety Caps

Cat. No.	Description
CCGL3801	CS Cap, GL38, 1 Standard Tubing Port
CCGL3802	CS Cap, GL38, 2 Standard Tubing Ports
CCGL3803	CS Cap, GL38, 3 Standard Tubing Ports



## Thread Adapters

Fit **GL45** thread Safety Caps to various bottles of different thread sizes

Cat. No.	Description	Qty
CA4501	PTFE, GL45 Cap - GL40 Bottle	Each
CA4502	PP, GL45 Cap - GL40 Bottle	Each
CA4503	PTFE, GL45 Cap - GL32 Bottle	Each
CA4504	PP, GL45 Cap - GL32 Bottle	Each
CA4505	PTFE, GL45 Cap - GL38 Bottle (fits most common 4L solvent bottles)	Each
CA4506	PP, GL45 Cap to GL38 Bottle (fits most common 4L solvent bottles)	Each
CA4507	PP, S55 Bottle - GL45 Cap	Each
CA4508	PP, S60 Bottle - GL45 Cap	Each
CA2932	PTFE, GL45 Cap - 29/32 Ground Neck	Each
CA4567	PP, GL45 Cap - US67 Bottle	Each
CA4599	PTFE, GL45 Cap to Nalgene Single Thread Bottle	Each
CA4521	Male/Male, for Barrel Thread 2" (BCS70X6) to GL45 Cap	Each

## GL45 Adapter (caps not included)

- Converts two GL45 caps to one GL45 port
- Great for cleaning your GL45 Caps

Cat. No.	Description	Qty
CA4522	GL45 2-to-1 Adapter	Each





## Safety Waste Caps with Exhaust Filters

### Exhaust Filter

Contains an activated carbon, multi-component granulate material which absorbs 99% of all vapor and particulate materials evaporating from your solvents.

### PTFE Body

Rotates freely within the screw cap (until tightened) allowing for easy removal of cap without twisting or tangling tubing lines.

### Viton O-ring

Ensures air-tight seal between cap and mobile phase bottle

Outgoing Filtered Air

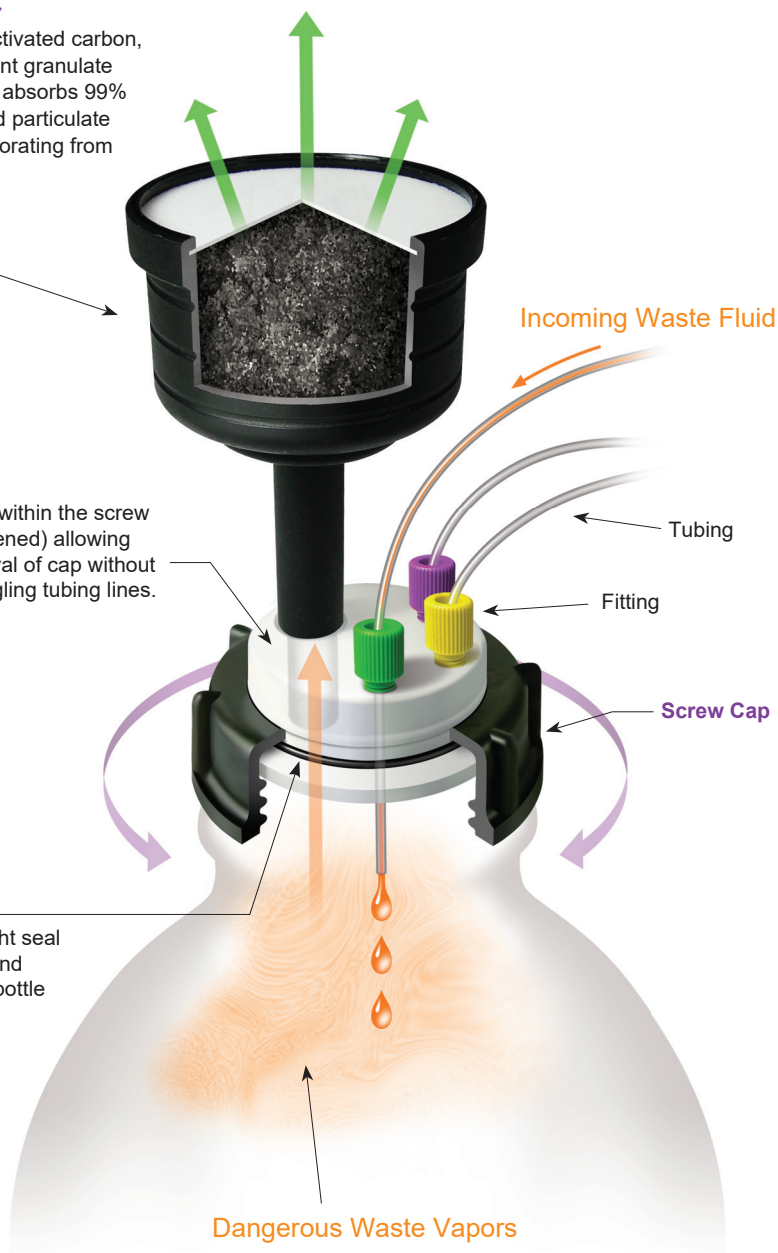
Incoming Waste Fluid

Tubing

Fitting

Screw Cap

Dangerous Waste Vapors







GL45 Thread



S55 Thread



B53 Thread

## Safety Waste Caps *(filters sold separately)*

### GL45 Thread

Cat No.		Qty
CW45018	Canary-Safe Waste Cap, GL45, 1 Standard Tubing Port	Each
CW45118	CS Waste Cap, GL45, 1 Standard 1/8" OD Tubing Port, 1 Port for Barbed Connector <i>(for larger tubing sizes)</i>	Each
CW45218	CS Waste Cap GL45, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector	Each
CW45319	CS Waste Cap GL45, 3 Standard 1/8" OD Tubing Ports	Each

Other Waste Cap configurations are available on our web site:

[www.analytical-sales.biz/mobile-phase-waste-caps](http://www.analytical-sales.biz/mobile-phase-waste-caps)

### S55 Thread

Cat No.		Qty
CW55218	CS Waste Cap, S55, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector <i>(for larger tubing sizes)</i>	Each

### B53 Thread

Cat No.		Qty
CW53219	CS Waste Cap B53, 2 Standard 1/8" OD Tubing Ports	Each
CW53218	CS Waste Cap B53, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector <i>(for larger tubing sizes)</i>	Each
CW53418	CS Waste Cap B53, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector <i>(for larger tubing sizes)</i>	Each

## Vapor Exhaust Filters for Safety Waste Caps

Canary-Safe exhaust filters contain an activated carbon, multi-component granulate material which absorbs 99% of all vapor and particulate materials evaporating from your solvents. Filters come with a **Timer/Change Indicator** at no additional cost.

Cat. No.	Size	Description	Replacement	Qty
CX3000	S	Exhaust Filter, for containers < 5L	Every 3 Months	Ea
CX6000	M	Exhaust Filter, for containers < 20L	Every 6 Months	Ea
CX12000	L	Exhaust Filter, for containers > 20L	Every 12 Months	Ea



CX12000



CJX01



CJX02



CF5033

## Exhaust Filter Adapters for JustRite® Waste Containers

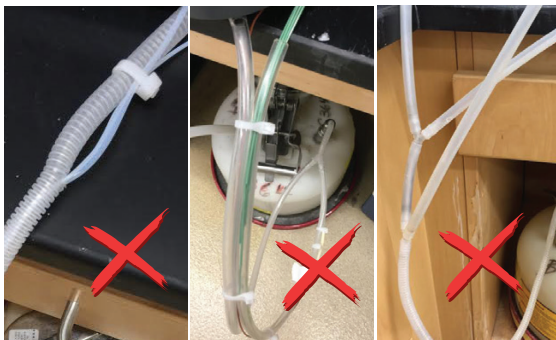
Cat. No.	Description
CJX01	Ex. Filter Fitting/ <b>Long</b> Adapter for SS Port on JustRite Waste Cans
CJX02	Ex. Filter Fitting/ <b>Short</b> Adapter for Gray PEEK Port on JustRite Waste Cans
CF5033	Y Adapter for JustRite Waste Cans, 2 Ports with Quick Connect CPC Fittings

## Multi-Inlet Waste System Manifold

*Keeps solvent waste lines neat and organized!*

- Made of chemical-resistant polypropylene
- Fits bench up to 3" thick
- Includes fittings and barbed adapters

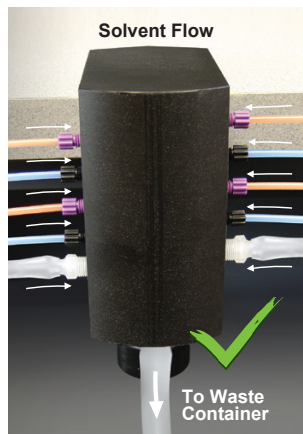
*Remediates these waste solvent situations:*



- Includes fittings for 1/8" tubing

## Multi-Inlet Waste Manifold

Cat. No.	Description
MW0802	8 Standard Tubing Ports for 1/16" or 1/8" OD Tubing, 2 Ports for Barbed Adapter, and 1 Large Outlet. Includes 1/8" Fittings and Barbed Adapters.
MW0010	10 Standard Tubing Ports and 1 Large Outlet, Inc. 1/8" Fittings
MW1010	10 Ports for Barbed Adapters and 1 Large Outlet. Includes Barbed Adapters
MW0406	4 Standard Tubing Ports, 6 Ports for Barbed Adapters and 1 Large Outlet. Includes 1/8" Fittings and Barbed Adapters.
MW0523	5 Standard Tubing Ports, 2 Ports for 3/16" OD Tubing, 3 Ports for Barbed Adapters and 1 Large Outlet. Includes 1/8" and 3/16" Fittings and Barbed Adapters.



*For 1/16" or 2.5mm tubing, use these fittings and plugs (sold separately)*



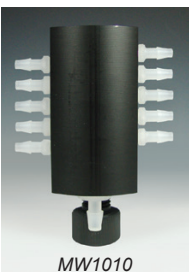
Cat. No.	Description	Qty
59249	PEEK™ One Piece Fitting (1/4-28) for 1/16" OD Tubing	Each
59305X	Green Delrin Flangeless Male Nut, use with Ferrule (59353X)	10
59353X	ETFE Ferrule for 2.5mm OD Tubing	10
CF5007	Plugs For 1/8" or 1/16" Ports, White PFA	10
CF5009	Plugs for 6.4mm ID Barbed Connector Port, PP	5



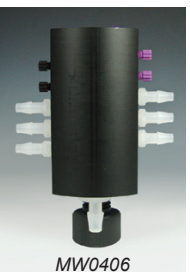
MW0802



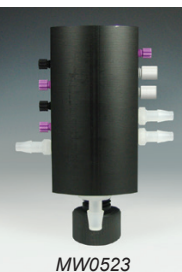
MW0010



MW1010



MW0406



MW0523

# Canary Safe™ SENTINEL™ Level Indicator

**Avoid running dry!  
Prevent messy overflow!**

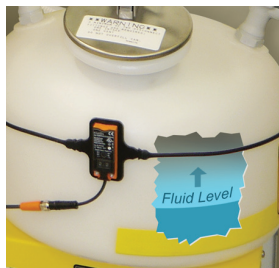


## Solvent Safety Alarm System

- Monitor up to 3 containers (**Waste and/or Mobile Phase**) at the same time
- Sensors can be set to detect **FULL or EMPTY** fluid levels
- Front panel LEDs indicate which sensor position has been activated
- Beacon light illuminates to signify fluid level status:  
**Green**=Safe, **Red**=Alert!, **Orange**=Alert with audio alarm paused
- Adjustable audio alert



A sensor can be set to detect low fluid level in your mobile phase container.



Another sensor can be set to detect high fluid level in your waste container.



The Beacon turns from **green** to **red** and an audio alert sounds when a level has been reached (full or empty, depending on setup).

**Cat. No. Description**

**Sentinel Solvent Safety Alarm System, includes Control Module, Beacon and 3 Sensors**



Proud Makers of:



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