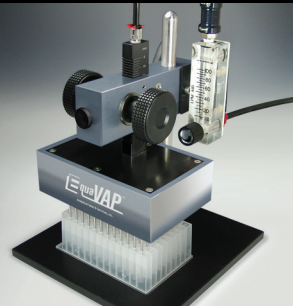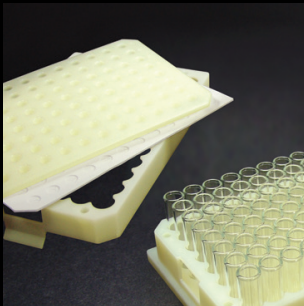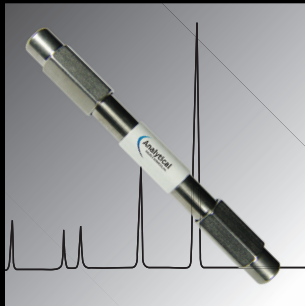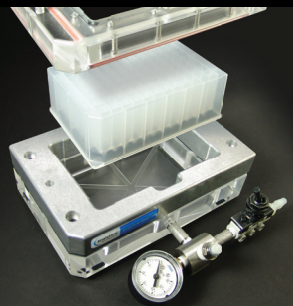# analytical

Options for Sample Management & Clean Up

Ideas for Difficult Compounds

(Pricing updated 6-12-2023)
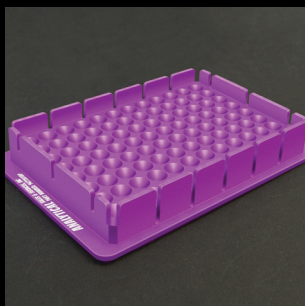
Sample Management

Collection Plates & Accessories

Vials

EquaVAP® Blowdown Evaporators

Sample Cleanup

Sample Filtration

Columns

Instrumentation Accessories

Solvent Safety

Fluidic Transfer

Temperature Control

Flow Splitters

Injection

You can order by:
- **Online store:** **www.analytical-sales.com**
- Phone: 973-616-0700
- Fax: 973-616-0133
- Email: 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 <u>low-bind</u> surface coating which helps prevent compounds from sticking to polypropylene surfaces.

SiliGuard Protective Coating keeps proteins from binding to surface of PP collection plate

Sample
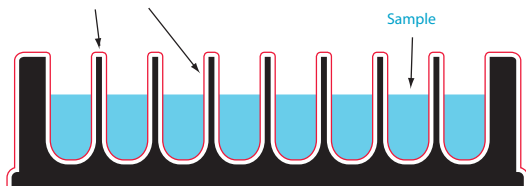
Polypropylene Collection Plate with SiliGuard

PRODUCT NOTE:

We also have the capability to Silanize glass products

96-Well Collection Plates with SiliGuard

Round Well

Cat. No.	Description	Volume	Qty	Price
96355GC	U-Shaped Bottom	355µL	25	$297
96340GC	V-Shaped Bottom	340µL	25	$297
96390GC	Flat Bottom	390µL	25	$297
96065GC	V-Shaped Deep	650µL	50	$924
968810GC	TrueTaper®, 1mL	1mL	25	$307
17P687GC	Round Bottom	1mL	20	$400
17P687ZGC	Round Bottom	1mL	20	$260
17P557GC	Clear-Vu™ Round Bottom	1mL	24	$450
967720GC	2mL Round Bottom*	2mL	25	$305

Square Well

Cat. No.	Description	Volume	Qty	Price
968820GC	TrueTaper®, 2mL	2mL	25	$400
59623-23GC	V-Bottom	2mL	10	$210
27P687GC	Round Bottom	2mL	20	$400

Custom coating of PP products is possible

SiliGuard
Low-Bind Surface-Coated Collection Plates

1

968810
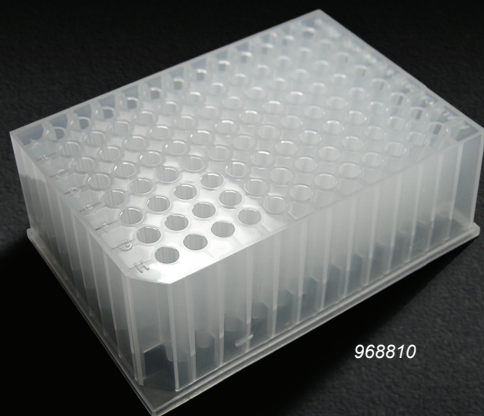
50µL well bottom volume

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

1mL TrueTaper® Collection Plates
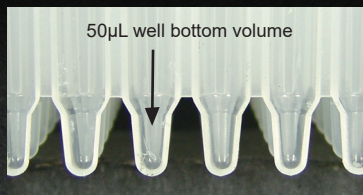
Cat. No.	Description	Volume	Qty	Price
968810	1mL TrueTape 96-Well Collection Plate	50µL bottom / 1.0mL total	25	$90
968810GC	1mL TrueTaper Collection Plate with **SiliGuard**	50µL bottom / 1.0mL total	25	$300

44 mm
39.9 mm well depth
9mm

6.5mm id
9mm centers

Available with

SiliGuard™
SG
Low Bind
COATING

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

O-ringed Plugs

Cat. No.	Description	Color	Qty	Price
960181	Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate	Purple	5	$37
960185	*Pre-Slit* Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate	Purple	5	$48

Can also be used with these Standard Silicone Cap Mats

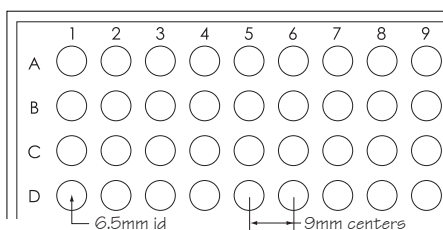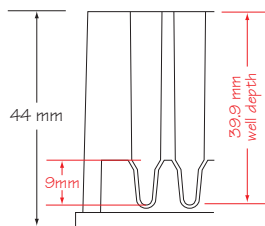| Cat. No.	Description	Color	Qty	Price
99890	*Pre-Slit* Opaque Silicone/PTFE Cap Mat, Round Well	Blue	5	$70
99685	CLEAR Silicone/PTFE Cap Mat, Round Well	CLEAR	5	$66
99690	CLEAR *Pre-Slit* Silicone/PTFE Cap Mat, Round Well	CLEAR	5	$69

100µL well bottom volume
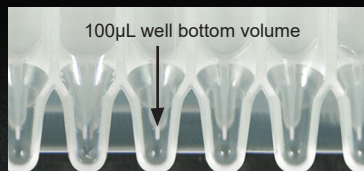
- **100µL** tapered bottom volume
- 2.0mL total volume capacity
- *Square* well with unique tapered bottom for **maximum sample recovery**
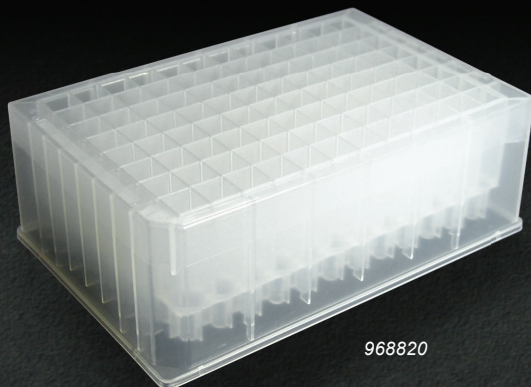
968820

2mL TrueTaper® Collection Plates

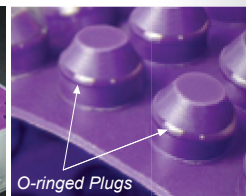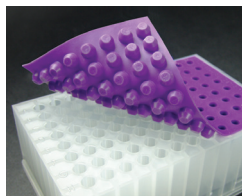| Cat. No.	Description	Volume	Qty	Price
968820	2mL TrueTaper 96-Well Collection Plate	100µL bottom / 2.0mL total	25	$160
968820GC	2mL TrueTaper Collection Plate with **SiliGuard**	100µL bottom / 2.0mL total	25	$400

44 mm

12mm

39.9 mm well depth

1

A

Available with

SiliGuard™
SG
Low Bind
COATING
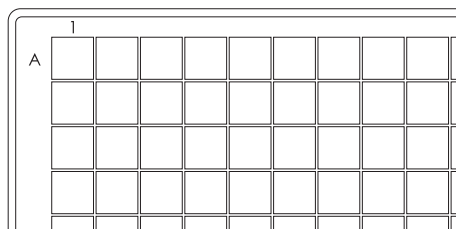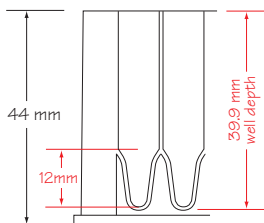
Use with these Cap Mats:

Resealable Silicone/PTFE Coated Cap Mats, Square

Best Seller!

Cat. No.	Description	Color	Qty	Price
965008	Ultra Thin Square Well, Soft Silicone/PTFE	Purple	5	$42
965085	**Pre-Slit**, Ultra Thin Square Well, Soft Silicone/PTFE	Purple	5	$50
963725	Square Well, Silicone/PTFE	Green	5	$42
963724	**Pre-Slit**, Square Well, Silicone/PTFE	Green	5	$48
964008	Ultra Thin Square Well, Soft Silicone/PTFE	CLEAR	5	$42
964085	**Pre-Slit**, Ultra Thin Square Well, Soft Silicone/PTFE	CLEAR	5	$50
968802	Square Well, Soft Silicone/PTFE, **Thicker**	Blue	5	$70
968801	**Pre-Slit**, Square Well, Soft Silicone/PTFE, **Thicker**	Blue	5	$78
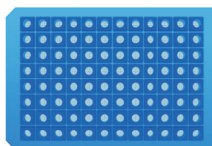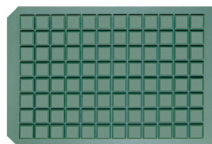
Polypropylene Cap Mats, Square

Cat. No.	Description	Color	Qty	Price
2726	Pierceable 'X' in Each Well	CLEAR	5	$62
3726	2mL Cap Mat, PP	CLEAR	24	$127

Available with SiliGuard™ SG Low Bind COATING
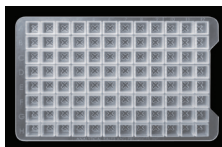
17P687Z

Old Favorite - *New Design!*
Ultra-clear Polypropylene Collection Plate

Advantage™ Standard 1mL Collection Plates with Round Wells & Round Bottoms

Cat. No.	Description	Volume	Qty	Price
17P687Z	Round Well/Round Bottom	1mL	20	$60
17P687ZGC	Round Well/Bottom w/ **SiliGuard**	1mL	20	$260

Sterilized plates are available upon request

Available with SiliGuard™ SG Low Bind COATING

17P687

Advantage™ 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	Price
17P687	Round Well/Round Bottom	1mL	20	$67
17P687GC	Round Well/Bottom w/ **SiliGuard**	1mL	20	$400

## Resealable Silicone/PTFE Coated Cap Mats, Round

Cat. No.	Description	Color	Qty	Price
965007	Ultra Thin, Soft Silicone/PTFE	**Purple**	5	$37
965075	**Pre-Slit**, Ultra Thin, Soft Silicone/PTFE	**Purple**	5	$48

960101

SiliGuard™ SG Low Bind COATING
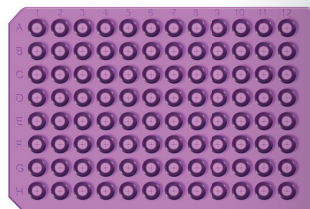
Advantage™ 1mL Half-Height 96-Well Collection Plate

Cat. No.	Description	Volume	Qty	Price
960101	Half-Height, Round Well, Shallow V-Bottom	1mL	32	$121
960101GC	Half-Height, Round Well, Shallow V-Bottom w/ **SiliGuard**	1mL	32	$419

955022

955011

Used on Axygen and Nunc™ Collection Plates

Cat. No.	Description	Qty	Price
955011	Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5	$33
955022	**Pre-Slit** Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5	$42
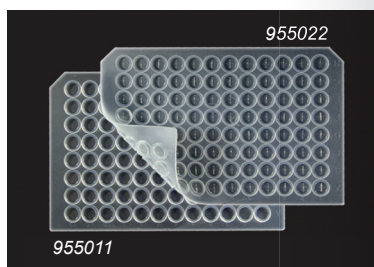
59623-23

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

Cat. No.	Description	Volume	Qty	Price
59623-23	Square Top, V-Bottom	2mL	10	$47
59623-23GC	Square Top, V-Bottom with **SiliGuard**	2mL	10	$210
59623-23BK	**BLACK** Square Top, V-Bottom	2mL	10	$55

27P687

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

Cat. No.	Description	Volume	Qty	Price
27P687	Square Top, Round Bottom	2mL	20	$80
27P687GC	Square Top, Round Bottom with **SiliGuard**	2mL	20	$400

Sterilized plates are available upon request

Resealable Silicone/PTFE Coated Cap Mats, Square

Cat. No.	Description	Color	Qty	Price
965008	Ultra Thin, Soft Silicone/PTFE	**Purple**	5	$42
965085	**Pre-Slit**, Ultra Thin, Soft Silicone/PTFE	**Purple**	5	$50

955022 Cap Mat
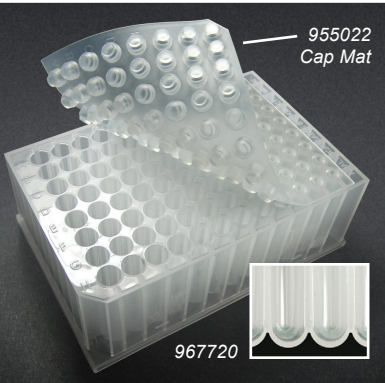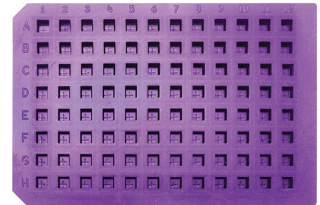
2mL Round Well/Round Bottom Collection Plate

Cat. No.	Description	Volume	Qty	Price
967720	2mL Round Well/Round Bottom	2mL	25	$90
967720GC	2mL Round Well/Round Bottom with **SiliGuard**	2mL	25	$305

967720

955022

Used on Axygen and Nunc™ Collection Plates

Cat. No.	Description	Qty	Price
955011	Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5	$33
955022	**Pre-Slit** Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5	$42

955011

38400
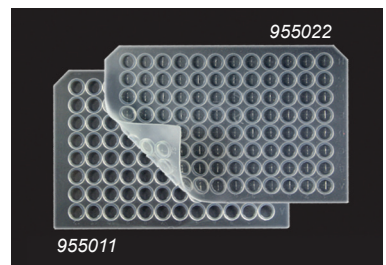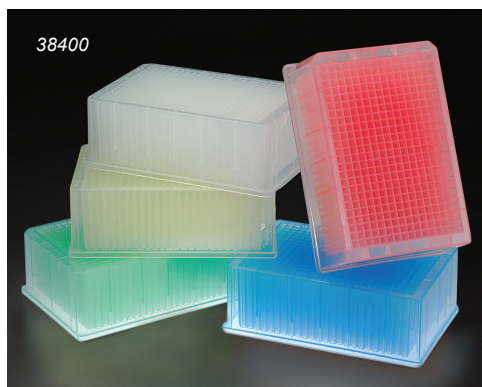
384201

384-Well Polypropylene Collection Plates

Catalog No.	Well Volume	Well Sidewalls	Well Bottom	Qty	Price
38435	58µL	Square	Round	60	$346
384241	1-90µL	Square	V	100	$846
384280	13-120µL	Square	V	100	$489
38120	120µL	Square	Flat	24	$191
384201	15-145µL	Square	Flat	100	$479
38200	200µL	Square	Round	24	$194

384 Cap Mats & Film

Cat. No.	Material	Type	Qty	Price
96384	Silicone/PTFE	Cap Mats	5	$53
96384SL	Silicone/PTFE	Cap Mats, Pre-slit	5	$61
38402	Teflon®	Flat Film	100	$322
38402SL	Teflon®	Flat Film, Pre-slit	100	$350
38404	Silicone	Flat	5	$62

96384

38404
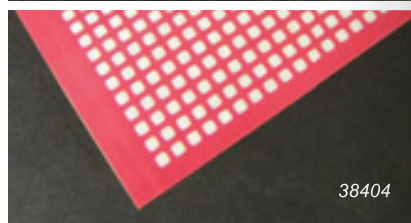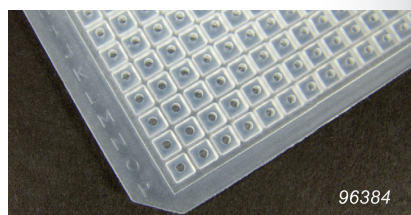
38499

384-Well Glass Microplates

Cat. No.	Well Volume	Well Sidewalls	Well Bottom	Qty	Price
38499	24µL	Round	Round	1	$1625
38498	74µL	Round	Round	1	$1900

Thin Wall PCR Plates

Available with **SiliGuard™ SG Low Bind COATING**

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

969610B

Cat. No.	Description	Qty	Price
969610	Clear 200µL PCR Plate, Flat Well Rim	100	$287
969610B	**Blue** 200µL PCR Plate, Flat Well Rim	100	$287

96100

Available with **SiliGuard™ SG Low Bind COATING**

Standard No-Cut PCR Plates

Cat. No.	Description	Qty	Price
96100	Clear 100µL Skirted Low Profile Plate	100	$312
96100GC	Clear 100µL Skirted Low Profile w/ SiliGuard	25	$316
96100B	**Blue** 100µL Skirted Low Profile Plate	100	$312
For chemical illuminescent and fluorescent procedures:			
96323	White 100µL Skirted Low Profile PCR Plate	100	$281
96323B	Black 100µL Skirted Low Profile PCR Plate	100	$281

Cap Mats for PCR Plates

Cat. No.	Description	Qty	Price
96726	PCR Silicone Cap Mat	5	$51
96727	PCR **Pre-slit** Silicone Cap Mat	5	$61
96727-8	PCR **Pre-slit** Silicone Plug Strips (8 plugs/strip, 6mm Plugs)	60	$70

96726
Underside
Top Surface

96727-8

PCR® is a Registered Trademark of Hoffman-LaRoche.
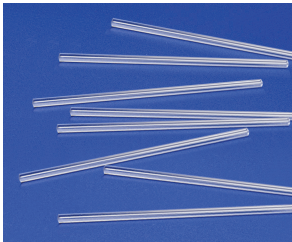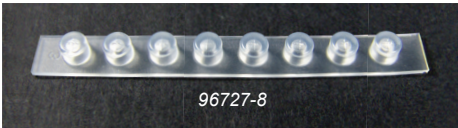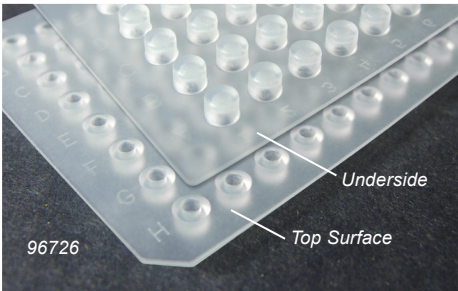
End to End Micro Pipettes with Anticoagulant

- Micro sampling allows for more time points from animals

Cat. No.	Description	Qty	Price
173313	End to End Micro Pipette, 8µL, K2EDTA	1000	$865
174113	End to End Micro Pipette, 10µL, K2EDTA	1000	$303
172513	End to End Micro Pipette, 15µL, K2EDTA	1200	$1085

Numeric & Alpha-Numeric Templates
for 96-Well Collection Plates

- Provides easy identification of each well
- Reusable – made of lightweight aluminum
- Low cost
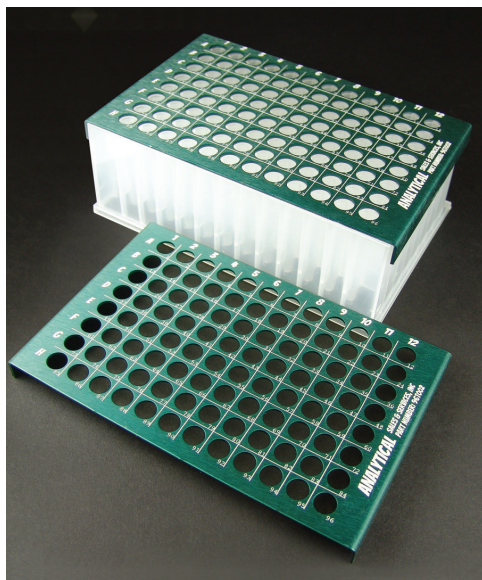
Numeric Template, Green

Numbers only 1-96 in the lower right corners

Cat. No.	Description	Qty	Price
96T002	Numeric Template for 96-Well Collection Plates	Each	$20
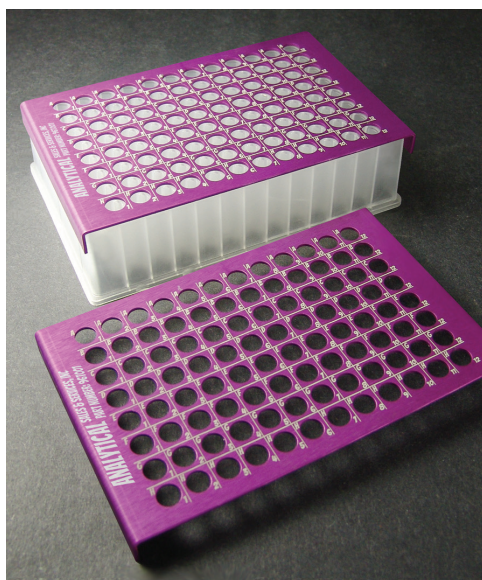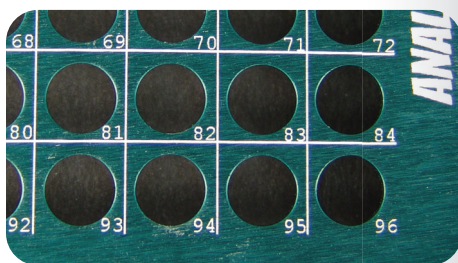
Alpha-Numeric Template, Purple

Letters A-H in the upper left corners
Numbers 1-12 in the lower right corners

Cat. No.	Description	Qty	Price
96T001	Alpha-numeric Template for 96-Well Collection Plates	Each	$20
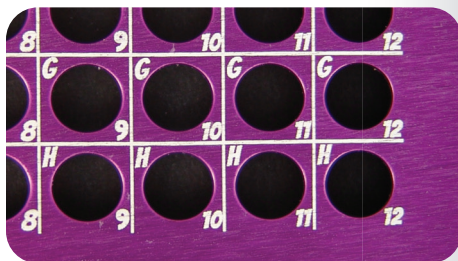
Thermal Adapter Plates

- **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.

PP Collection Plate

Thermal Adapter Plate

Thermal Transfer Deck
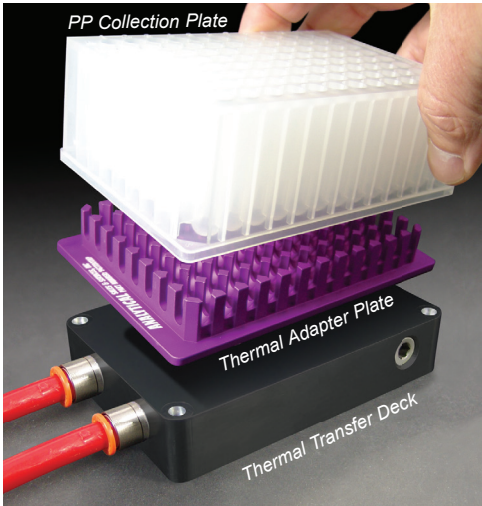
Analytical Sales & Services can make Thermal Adapter Plates to accommodate any shape and style polypropylene collection plate we offer. Please call 973-616-0700 for more information.
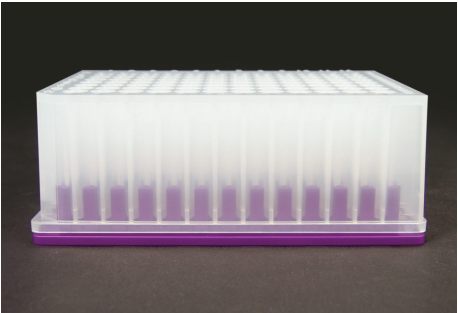
967720TAP

Thermal Adapter Plate for 967720 PP Collection Plate

Cat. No.	Description	Qty	Price
967720TAP	Thermal Adapter Plate for 967720 PP Collection Plate	Each	$613
967720	2mL Round Well/Round Bottom 96-Well Collection Plate	25	$90
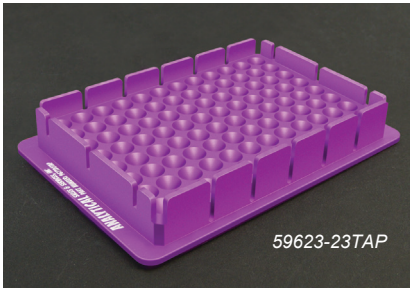
59623-23TAP

Thermal Adapter Plate for 59623-23 PP Collection Plate

Cat. No.	Description	Qty	Price
59623-23TAP	Thermal Adapter Plate for 59623-23 PP Collection Plate	Each	$685
59623-23	2mL Round Well/V-Bottom 96-Well Collection Plate	25	$47

9

Loose 0.7mL Glass Inserts

Cat. No.	Description	Qty	Price
96305	0.7mL **Flat Bottom** Glass Inserts	100	$56
96305S	0.7mL **Flat Bottom** Glass Inserts - *Silanized*	100	$77
96837	0.7mL **Tapered** Glass Inserts	100	$48
96837S	0.7mL **Tapered** Glass Inserts - *Silanized*	100	$69

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**

44mm

*

* *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	Price
96382	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts	1	$47
96326	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts, PP Pierceable Cap Mat with "X" on Surface	1	$64
96326S	96-Well Plate w/ *Silanized* 0.7mL Flat Bottom Glass Inserts, PP Pierceable Cap Mat with "X"	1	$82
96380	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts, *Pre-Slit* Silicone/PTFE Cap Mat	1	$60
96385	96-Well Plate w/ 0.7mL Flat Bottom Glass Inserts, CLEAR Ultra Thin Silicone/PTFE Cap Mat	1	$53

Tapered

Cat. No.	Description	Qty	Price
96687	96-Well Plate with 0.7mL Tapered Glass Inserts	1	$45
96687S	96-Well Plate with *Silanized* 0.7mL Tapered Glass Inserts	1	$73
96627	96-Well Plate with 0.7mL Tapered Glass Inserts, PP Pierceable Cap Mat with "X" on Surface	1	$46
96627S	96-Well Plate with *Silanized* 0.7mL Tapered Glass Inserts, PP Pierceable Cap Mat with "X"	1	$74
96685	96-Well Plate with 0.7mL Tapered Glass Inserts, Purple Ultra Thin *Pre-Slit* Square Cap Mat	1	$51

2726

964085

965085
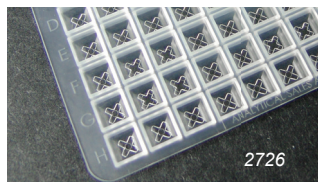
96-Well Square Cap Mats

Cat. No.	Description	Qty	Price
2726	2mL Autosampler Compatible Square PP Cap Mat with 'X' on Surface	20	$62
964008	CLEAR Ultra Thin Silicone/PTFE Square Cap Mat	5	$42
964085	CLEAR **Pre-Slit**, Ultra Thin Silicone/PTFE Square Cap Mat	5	$50
965008	Purple Ultra Thin Silicone/PTFE Square *Mighty Mat*	5	$42
965085	Purple **Pre-Slit**, Ultra Thin Silicone/PTFE Square *Mighty Mat*	5	$50

Loose 1mL Glass Inserts

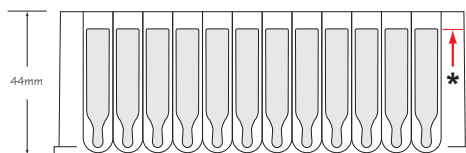| Cat. No.	Description	Qty	Price
96405	1mL **Flat Bottom** Glass Inserts	100	$43
96405S	1mL **Flat Bottom** Glass Inserts - *Silanized*	100	$64
96847	1mL **Tapered** Glass Inserts	100	$50
96847S	1mL **Tapered** Glass Inserts - *Silanized*	100	$71

Assembled 1mL Glass Inserts in 96-Well Collection Plates

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

44mm
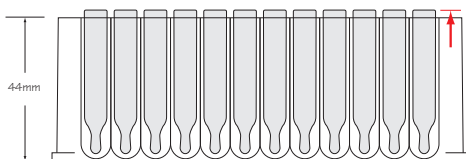
* *1mL inserts extend beyond the top surface of the collection plate - therefore, use* *round-well* *cap mats*

### Flat Bottom

Cat. No.	Description	Qty	Price
96481	96-Well Plate with 1mL Flat Bottom Glass Inserts	1	$45
96485	96-Well Plate with 1mL Flat Bottom Glass Inserts, Clear Silicone/PTFE Cap Mat	1	$51
96490	96-Well Plate with 1mL Flat Bottom Glass Inserts, *Pre-slit* Clear Silicone/PTFE Cap Mat	1	$52
96489	96-Well Plate with 1mL Flat Bottom Glass Inserts, *Pre-slit* Blue Silicone/PTFE Cap Mat	1	$49

Tapered

Cat. No.	Description	Qty	Price
96681	96-Well Plate with 1mL Tapered Glass Inserts	1	$48
96681S	96-Well Plate with *Silanized* 1mL Tapered Glass Inserts	1	$57
99861	96-Well Plate with 1mL Tapered Glass Inserts, Clear Silicone/PTFE Cap Mat	1	$51
99862	96-Well Plate with 1mL Tapered Glass Inserts, *Pre-slit* Clear Silicone/PTFE Cap Mat	1	$54
99862S	96-Well Plate with *Silanized* 1mL Tapered Glass Inserts, *Pre-slit* Clear Silicone/PTFE Cap Mat	1	$80
961879	96-Well Plate with 1mL Tapered Glass Inserts, *Pre-slit* Blue Silicone/PTFE Cap Mat	1	$78

O-ringed Plugs 960181

99690

99890
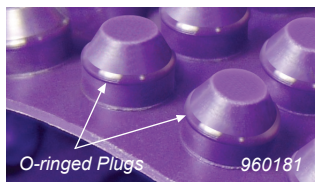
96-Well Round Cap Mats

Cat.No.	Description	Qty	Price
960181	**Purple** Silicone/PTFE Cap Mat with **O-ringed Plugs**	5	$37
960185	**Purple** *Pre-Slit* Silicone/PTFE Cap Mat with **O-ringed Plugs**	5	$48
99685	CLEAR Silicone/PTFE Cap Mat for 1mL Tapered Vials	5	$66
99690	CLEAR *Pre-Slit* Silicone/PTFE Cap Mat for 1mL Tapered Vials	5	$69
99890	**Blue** Opaque *Pre-Slit* Silicone/PTFE Cap Mat for 1mL Tapered Vials	5	$70

Flexi-Tier™
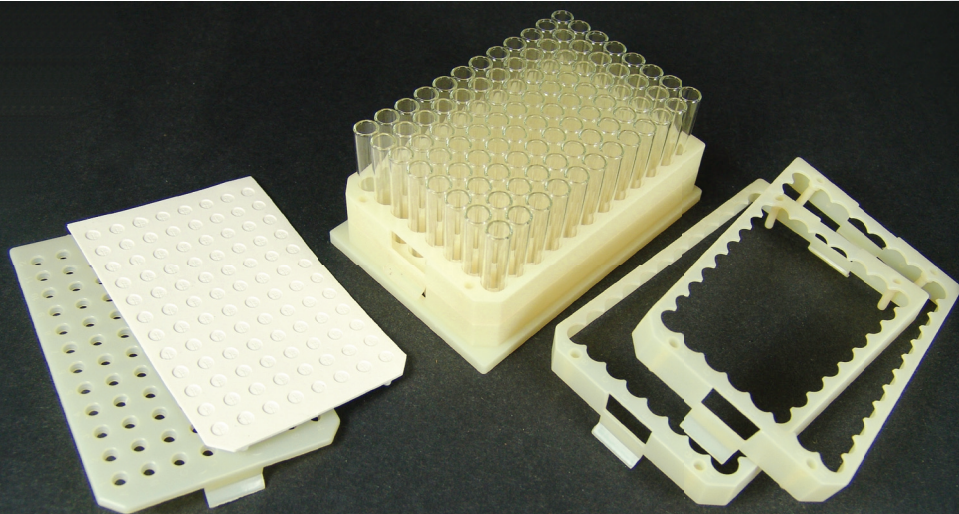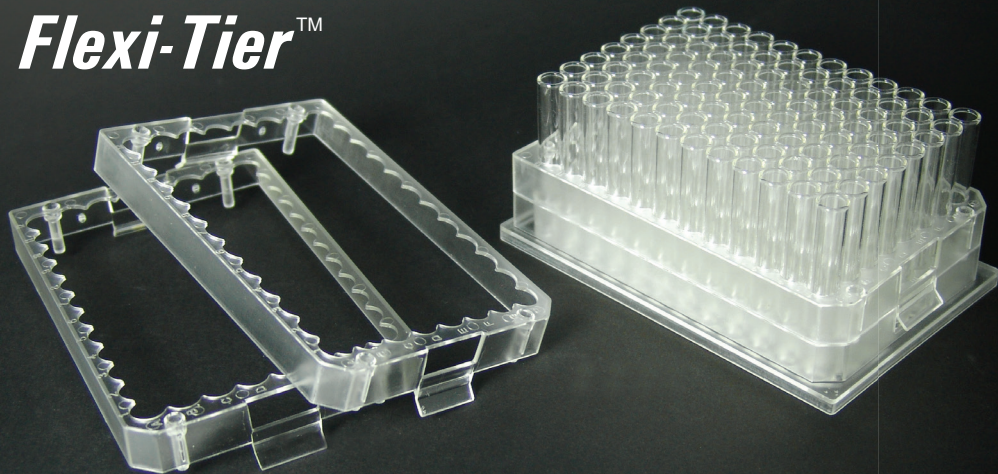
Flexi-Tier™ Adjustable Height Collection Systems

- **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**

Cover
1.5mL — Spacer
1mL — Spacer
500μL — Base Plate

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 Flexi-Tier™ Complete Systems

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

CLEAR System - Heat Resistance up to 150ºC

Cat. No.	Size	Material & Style	Qty	Price
96FP05-C	0.5mL	Conical Clear Glass Inserts	Each	$63
96FP10-C	1.0mL	Conical Clear Glass Inserts	Each	$94
96BB05-C	0.5mL	Flat Bottom Clear Glass Inserts	Each	$63
96BB10-C	1.0mL	Flat Bottom Clear Glass Inserts	Each	$68

OPAQUE System - Heat Resistance up to 80ºC

Cat. No.	Size	Material & Style	Qty	Price
96FP05	0.5mL	Conical Clear Glass Inserts	Each	$88
96FP10	1.0mL	Conical Clear Glass Inserts	Each	$94
96BB05	0.5mL	Flat Bottom Clear Glass Inserts	Each	$88
96BB10	1.0mL	Flat Bottom Clear Glass Inserts	Each	$94

Flexi-Tier™ Collection Plate Accessories

Cat. No.	Description	Qty	Price
96FS00-C	Clear Spacer	Each	$10
96FC00-C	Clear Cover	5	$38
96FB00-C	Clear Base Plate	Each	$9
96FC00	Opaque Cover	5	$38
96FS00	Opaque Spacer	Each	$10
96FB00	Opaque Slotted Bottom Base Plate	Each	$9
96RB00	Opaque Round Hole Bottom Base Plate	Each	$69
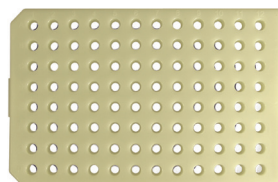
96FC00
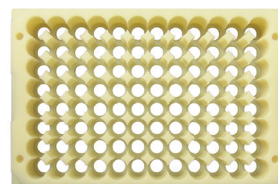
96RB00
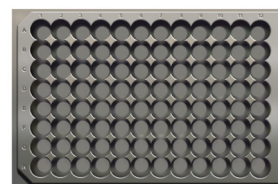
Advantage™ 96-Well Aluminum Base Plates

• Perfect for platform heating/cooling devices
• Superb conductivity for uniform vial heating and cooling, and can be immersed in heating/cooling liquids for total fluid contact with the vials
• Ideal for volatile solvents, salt screening, high throughput solubility & physical characterization

96AB22

Our Tall Aluminum Base Plate provides more consistent heating/cooling of 1.5mL and 2mL vials.

96A002

Cat. No.	Description	Qty	Price
96AB11	Aluminum Base Plate Slotted/Open Bottom	Ea	$135
96AB74	Aluminum Base Plate Round/Open Bottom	Ea	$138
96AB22	Aluminum Base Plate Solid Bottom	Ea	$140
96A002	TALL Aluminum Base Plate	Ea	$1022

Loader with vials

Flexi-Tier Base Plate
(96FB00 - sold separately)

**Vials come upside down
in Loader for easy refill of Base Plate**
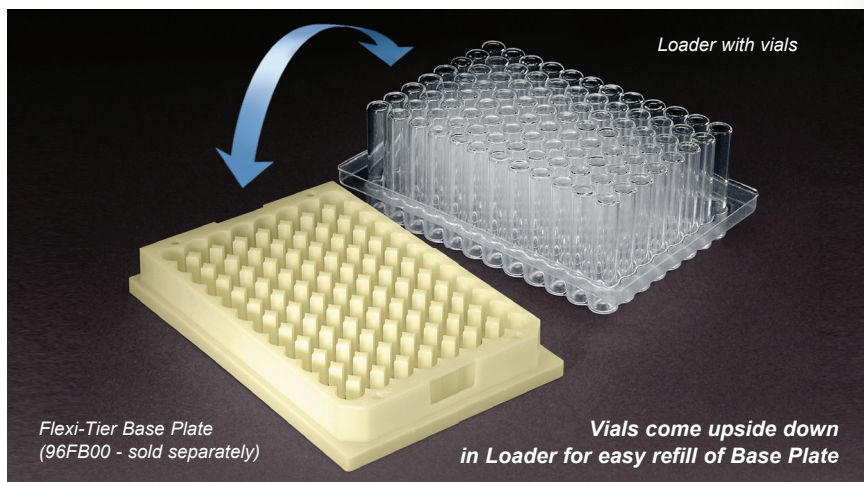
*Conical Clear
Glass Inserts*

*Conical Amber
Glass Inserts*

*Flat Bottom Clear
Glass Inserts*

*Flat Bottom Amber
Glass Inserts*

Glass Inserts in Loader

Cat. No.	Type	Style	Volume	Qty	Price
96FV05	Conical	Clear	0.5mL	96	$50
96FV10	Conical	Clear	1.0mL	96	$52
96FV05A	Conical	Amber	0.5mL	96	$54
96FV10A	Conical	Amber	1.0mL	96	$54
96VL05	Flat Bottom	Clear	0.5mL	96	$24
96VL10	Flat Bottom	Clear	1.0mL	96	$25
96VL05A	Flat Bottom	Amber	0.5mL	96	$31
96VL10A	Flat Bottom	Amber	1.0mL	96	$32

SILANIZED Glass Inserts in Loader

Cat. No.	Type	Style	Volume	Qty	Price
96FV05-S	Conical	Clear	0.5mL	96	$67
96FV10-S	Conical	Clear	1.0mL	96	$69
96VL05-S	Flat Bottom	Clear	0.5mL	96	$41
96VL10-S	Flat Bottom	Clear	1.0mL	96	$42

Bulk, Loose Glass Inserts

Cat. No.	Type	Style	Volume	Qty	Price
96F005	Conical	Clear	0.5mL	100	$42
96F010	Conical	Clear	1.0mL	100	$40
96F005A	Conical	Amber	0.5mL	100	$45
96F010A	Conical	Amber	1.0mL	100	$45
96F605	Flat Bottom	Clear	0.5mL	100	$16
96F610	Flat Bottom	Clear	1.0mL	100	$16
96F605A	Flat Bottom	Amber	0.5mL	100	$22
96F610A	Flat Bottom	Amber	1.0mL	100	$23

* 1.5mL and 2.0mL volumes are available

965075   963670   96057

967702   964007
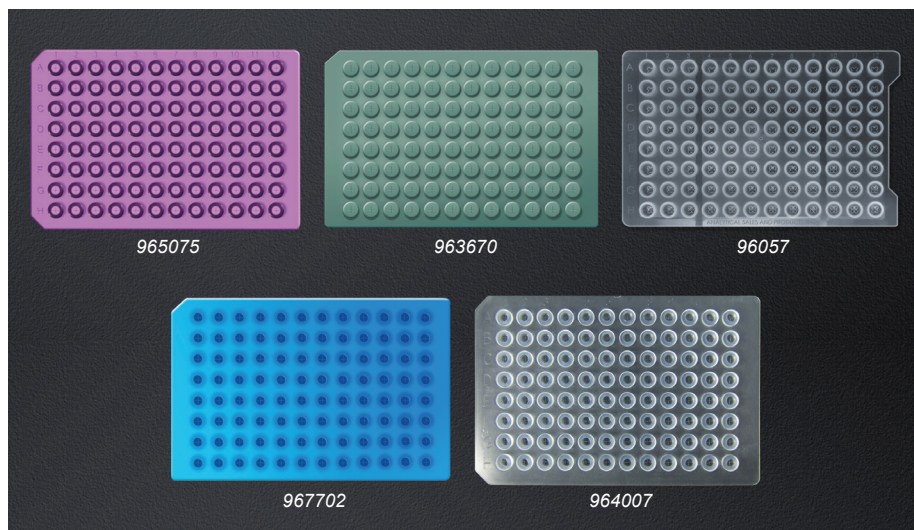
Cap Mats For Flexi-Tier & Aluminum Collection Systems

Cat. No.	Description	Qty	Price
965007	Ultra Thin Round Well, Soft Silicone/PTFE, **Purple**	5	$37
965075	*Pre-Slit* Ultra Thin Round Well, Soft Silicone/PTFE, **Purple**	5	$48
963675	Round Well, Silicone/PTFE, **Green**	5	$69
963670	*Pre-Slit* Round Well, Silicone/PTFE, **Green**	5	$74
96057	1mL Autosampler Compatible Round Cap Mat, PP with 'X' on Surface, Clear	20	$54
967702	Round Well Molded Soft Silicone, **Blue**	5	$70
967701	*Pre-Slit* Round Well Molded Soft Silicone, **Blue**	5	$78
964007	Ultra Thin Round Well w/ Molded Soft Silicone, Clear	5	$37
96FSC3STRIP	Pre-Scored Molded PTFE/Silicone 8 Position Strip Liner	12	$76
96FSC3PLUG	Pre-Scored Molded PTFE/Silicone Single Plug	100	$90
96FSC2STRIP	Molded PTFE/Silicone 8 Position Strip Liner, White	12	$76
96FSC2-12	Molded PTFE/Silicone 12 Position Strip Liner, White	8	$81
96FSC2PLUG	Molded PTFE/Silicone Single Plug, White	100	$89

96FSC2-12

96FSC2PLUG

Select-A-Vial™
Vial Insert/Rack System

Rack

Base Tray

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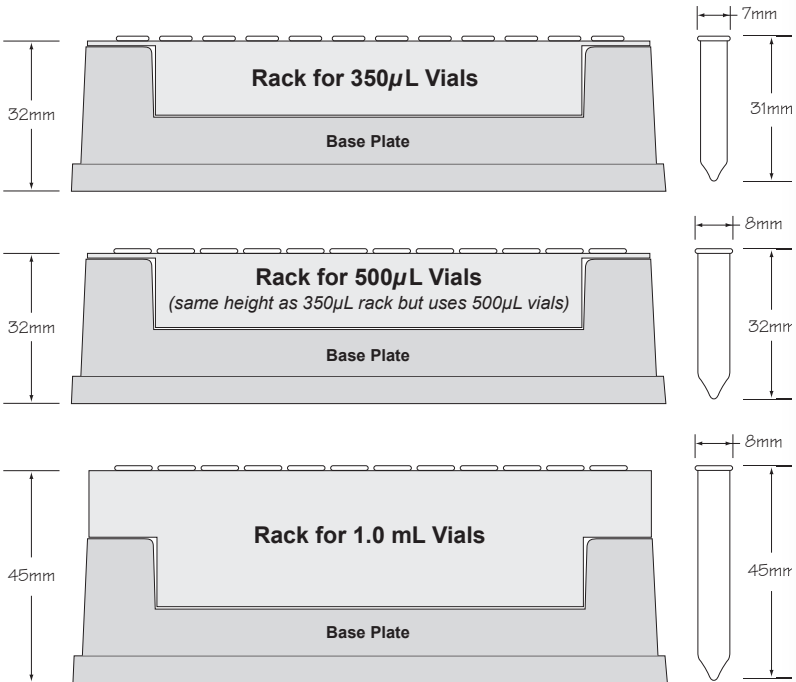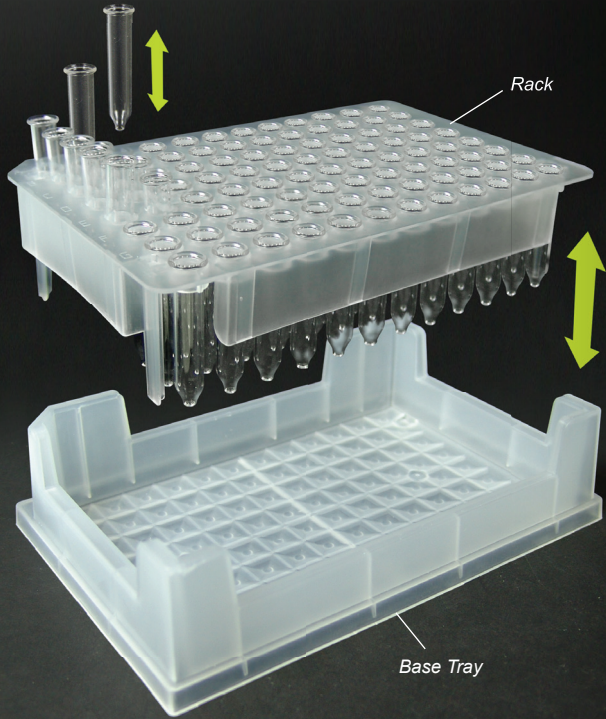
Rack for 350µL Vials

Base Plate

32mm

7mm

31mm

Rack for 500µL Vials
(same height as 350µL rack but uses 500µL vials)

Base Plate

32mm

8mm

32mm

Rack for 1.0 mL Vials

Base Plate

45mm

8mm

45mm

16

96 Position Select-A-Vial - Complete System

Cat. No.	Description	Qty	Price
27350	350µL Clear Conical Glass Inserts in Rack and Base Tray	Each	$54
27350S	350µL *Silanized* Conical Glass Inserts in Rack and Base Tray	Each	$69
27500	500µL Clear Conical Glass Inserts in Rack and Base Tray	Each	$55
27500S	500µL *Silanized* Conical Glass Inserts in Rack and Base Tray	Each	$69
27001	1.0mL Clear Conical Glass Inserts in Rack and Base Tray	Each	$61
27001S	1.0mL *Silanized* Conical Glass Inserts in Rack and Base Tray	Each	$69

Assembled Glass Inserts in Racks Only

Cat. No.	Description	Qty	Price
35078	350µL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg	$305
35078S	350µL *Silanized* Conical Glass Inserts in Rack Only	6 Racks/Pkg	$402
50078	500µL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg	$310
50078S	500µL *Silanized* Conical Glass Inserts in Rack Only	6 Racks/Pkg	$402
10178	1.0mL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg	$336
10178S	1.0mL *Silanized* Conical Glass Inserts in Rack Only	6 Racks/Pkg	$402

Bulk, Loose Conical Glass Inserts

*Can be used as inserts in glass vials

Cat. No.	Description	Qty	Price
35096	350µL Glass Inserts	100	$46
35096S	350µL *SILANIZED* Inserts	100	Call
50096	500µL Clear Inserts	100	$46
50096S	500µL *SILANIZED* Inserts	100	Call
10196	1.0 mL Clear Inserts	100	$42
10196S	1.0 mL *SILANIZED* Inserts	100	$50

1.0mL *10196*   **500µL** *50096*   **350µL** *35096*

Parts 35096 (350µL) and 50096 (500µL) can be used as inserts in 2mL glass vials for high throughput

Holds 350µL and 500µL inserts

88120

Base Tray

Cat. No.	Description	Qty	Price
20096	Clear Base for All Racked Glass Inserts	6	$14

Clear Cap Mats for Select-A-Vial
For 350µL Vials

Cat. No.	Description	Qty	Price
35070	Silicone/PTFE Cap Mat for 350µL Conical Inserts	5	Call
35075	*Pre-Slit* Silicone/PTFE Cap Mat for 350µL Conical Inserts	5	Call

Beige Rubber Cap Mats for Select-A-Vial
For 500µL & 1.0mL Vials

Cat. No.	Description	Qty	Price
96230	Rubber Cap Mat for 500µL & 1mL Conical Inserts	5	$42
96235	*Pre-Slit* Rubber Cap Mat for 500µL & 1mL Conical Inserts	5	$50

99290 87878 99042A 99042

9mm Clear Tear Drop Vials & Caps in Unassembled Kits

Maximum Recovery - 12 x 32mm Vial, < 2µL Dead Volume

Cat. No.	Description	Qty	Price
99260	1.5mL Clear Glass, PTFE/Silicone Lined Screw Cap	100	$171
99290	1.5mL Clear Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100	$184
99290A	1.5mL Amber Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100	$210
87878	1.2mL Clear Glass, Assembled Screw Cap w/ PTFE/Silicone Liner	100	$166
87878SL	1.2mL Clear Glass, Assembled Screw Cap w/ **Pre-slit** PTFE/Silicone Liner	100	$186
86868SL	1.2mL Clear Glass, Assm. Screw Cap w/ **Pre-slit, Non-Bonded** PTFE/Silicone Liner	100	$169

9mm Screw Vials with 300µL Fused Inserts & Caps in Unassembled Kits

Cat. No.	Description	Qty	Price
99042	2mL Clear Glass, PTFE/Silicone Lined Screw Cap	100	$158
99042A	2mL Amber Glass, PTFE/Silicone Lined Screw Cap	100	$166
99024	2mL Clear Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100	$175
99024A	2mL Amber Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100	$183
99062	2mL Clear Glass, PTFE/Silicone/PTFE Lined Screw Cap	100	$174
99062A	2mL Amber Glass, PTFE/Silicone/PTFE Lined Screw Cap	100	$182

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

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.

9mm Screw Caps

Cat. No.	Description	Qty	Price
99669-Case	9mm Screw Caps with PTFE/Silicone Liners	1000	$169
99669G-Case	9mm Green Screw Caps with PTFE/Silicone Liners	1000	$179
99669R-Case	9mm Red Screw Caps with PTFE/Silicone Liners	1000	$179
99669W-Case	9mm White Screw Caps with PTFE/Silicone Liners	1000	$179

23384

23024-18

23096

23054

EquaVAP®
Blowdown Evaporators
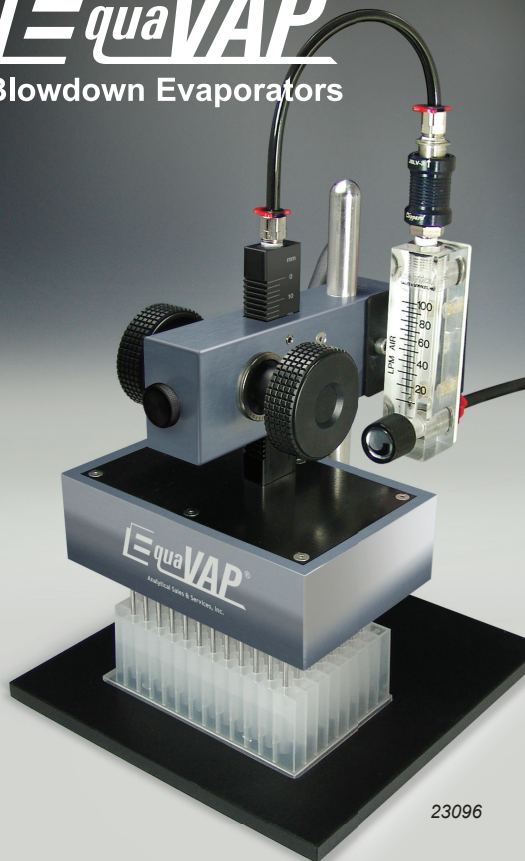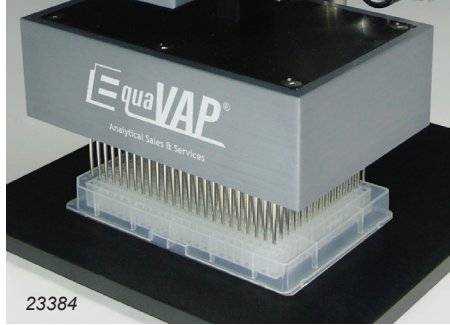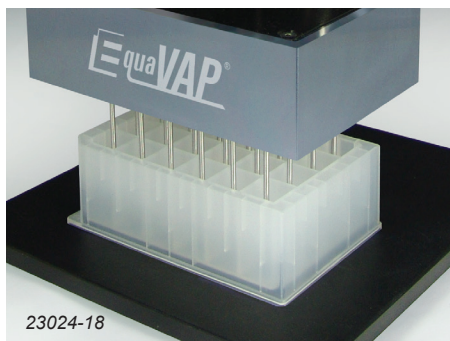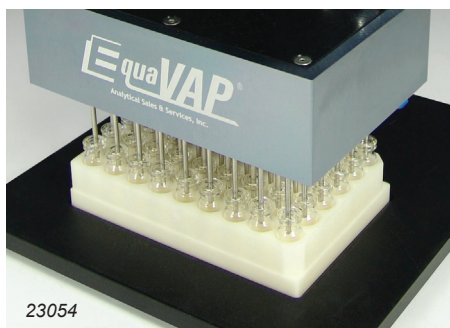
Rapidly evaporates common organic solvents!

- **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	Price
23096	EquaVAP for 96-Well Polypropylene Collection Plates or Reaction Blocks	$1,400
23024-18	EquaVAP for 24-Well PP Collection Plates, 18mm center-to-center needle distance	$1,350
23054	EquaVAP for 2mL, 12 x 32mm Vials in 54-position Base Plate (part # 96054)	$1,400
23384	EquaVAP for 384-Well Polypropylene Collection Plates	$3,088

Vacuum Manifold Filtration System

for Sample Preparation

Filter Plate

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

Collection Plate

Features:

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

Cat. No.	Description	Qty	Price
96844	Vacuum Manifold Filtration System	Each	$1550
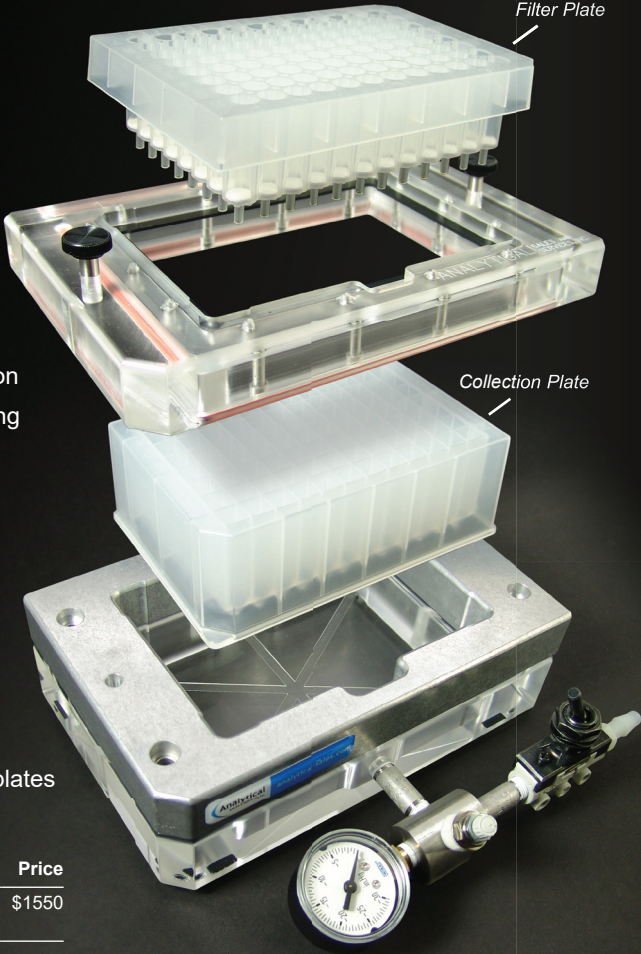
Collection and filter plates sold separately

For a Faster, Cleaner Sample Extract!

Best Seller

Advantage™ 1mL 96-Well Protein Crash Plates

- **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	Price
60513	1mL Protein Crash 96 Well Plate	1	$75
60513-5	1mL Protein Crash 96 Well Plate	**5**	**$250**

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!

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	Price
96620-10	1mL Nylon Filter Plate, 0.20µm	10	$481
96210-10	2mL Nylon Filter Plate, 0.20µm	10	$481
96110-10	1mL Nylon Filter Plate, 0.45µm	10	$286
96255-10	2mL Nylon Filter Plate, 0.45µm	10	$481

Low Protein Binding - Sample in Solvent

Cat. No.	Description	Qty	Price
96152-10	1mL Hydrophilic PP, 0.20µm	10	$555
96432-10	1mL HYDROPHILIC PVDF, 0.20µm	10	$483
96465-10	2mL HYDROPHILIC PVDF, 0.20µm	10	$546
96832-10	1mL Hydrophilic PVDF, 0.45µm	10	$568
96835-10	2mL Hydrophilic PVDF, 0.45µm	10	$568
96155-10	1mL Hydrophilic PP, 0.45µm	10	$675
96245-10	2mL Hydrophilic PP, 0.45µm	10	$597
96205-25	2mL, Glass Fiber, 5.0µm	25	$807

General Filtration 384-well Filter Plates

Cat. No.	Description	Qty	Price
38407	140µL, Glass Fiber, 0.7µm	10	$433
38412	140µL, Glass Fiber, 1.2µm	10	$433
38405	140µL, Glass Fiber, 5.0µm	10	$433

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

Cat. No.	Description	Qty	Price
964014	400µL, 10KDa PES Membrane	25	$1133
964016	400µL, 30KDa PES Membrane	25	$1133
964097	400µL, 100KDa PES Membrane	25	$1131
964099	400µL, 300KDa PES Membrane	25	$1131

964PP20

96832-10

96222-10

Drug Discovery 96-Well Filter Plates

- **Low Protein Binding**
- **General Filtration**

Cat. No.	Description	Qty	Price
96122-10	1mL Hydrophobic PP, 0.20µm	10	$555
96222-10	2mL Hydrophobic PP, 0.20µm	10	$546
96154-10	1mL Hydrophobic PP, 0.45µm	10	$675
96254-10	2mL Hydrophobic PP, 0.45µm	10	$675
964PP20	400µL Hydrophobic PP, 0.20µm	25	$469
964PP45	400µL Hydrophobic PP, 0.45µm	25	$521
96045	800µL Hydrophobic PP, 0.45µm, Long Drip	25	$652
968PV20	800µL PVDF, 0.20µm	25	$822

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	Silica Al Diol

PRODUCT NOTE:

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

Advantage™ 96-Well Solid Phase Extraction Plates
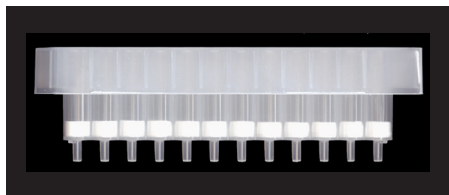
1.0mL 96-Well Extraction Plates

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.

C8

Cat. No.	Description	Price
9610C825	C8, 1.0mL/25mg Bed	$453
9610C850	C8, 1.0mL/50mg Bed	$473
9610C8100	C8, 1.0mL/100mg Bed	$534

C18

Cat. No.	Description	Price
9610C1825	C18, 1.0mL/25mg Bed	$453
9610C1850	C18, 1.0mL/50mg Bed	$473
9610C18100	C18, 1.0mL/100mg Bed	$569

Silica

Cat. No.	Description	Price
9610Si25	Silica, 1.0mL/25mg Bed	$453
9610Si50	Silica, 1.0mL/50mg Bed	$473
9610Si100	Silica, 1.0mL/100mg Bed	$534

Amino (NH2)

Cat. No.	Description	Price
9610NH25	Amino, 1.0mL/25mg Bed	$453
9610NH50	Amino, 1.0mL/50mg Bed	$473
9610NH100	Amino, 1.0mL/100mg Bed	$534

Strong Anion Exchanger (SAX)

Cat. No.	Description	Price
9610SAX25	SAX, 1.0mL/25mg Bed	$453
9610SAX50	SAX, 1.0mL/50mg Bed	$473
9610SAX100	SAX, 1.0mL/100mg Bed	$534

Strong Cation Exchanger (SCX)

Cat. No.	Description	Price
9610SCX25	SCX, 1.0mL/25mg Bed	$453
9610SCX50	SCX, 1.0mL/50mg Bed	$473
9610SCX100	SCX, 1.0mL/100mg Bed	$534
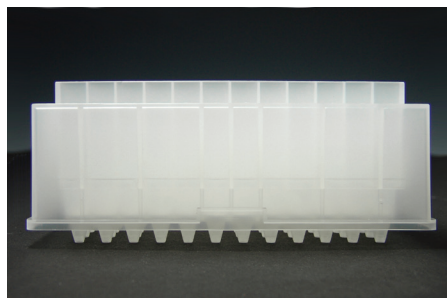
2.0mL 96-Well Extraction Plates

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.

C8

Cat. No.	Description	Price
9620C850	C8, 2.0mL/50mg Bed	$473
9620C8100	C8, 2.0mL/100mg Bed	$534

C18

Cat. No.	Description	Price
9620C1850	C18, 2.0mL/50mg Bed	$483
9620C18100	C18, 2.0mL/100mg Bed	$569

Silica

Cat. No.	Description	Price
9620Si50	Silica, 2.0mL/50mg Bed	$473
9620Si100	Silica, 2.0mL/100mg Bed	$534

Amino (NH2)

Cat. No.	Description	Price
9620NH50	Amino, 2.0mL/50mg Bed	$473
9620NH100	Amino, 2.0mL/100mg Bed	$534

Strong Anion Exchange (SAX)

Cat. No.	Description	Price
9620SAX50	SAX, 2.0mL/50mg Bed	$473
9620SAX100	SAX, 2.0mL/100mg Bed	$534

Strong Cation Exchange (SCX)

Cat. No.	Description	Price
9620SCX50	SCX, 2.0mL/50mg Bed	$473
9620SCX100	SCX, 2.0mL/100mg Bed	$534

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: 430m2/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

Minutes
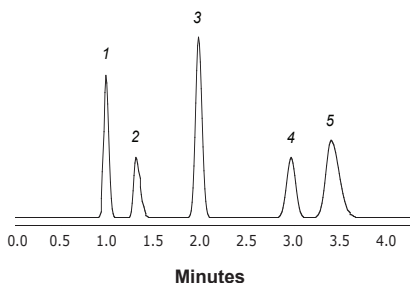
Nucleosides:
Echelon's unique end-capping chemistry works equally well at extreme hydrophilic and hydrophobic ranges.

Catalog No.: ADV8008
Column: Echelon C18 5.0cm x 2.1mm ID
Eluent: *100% Water*
Flow: 1.0mL/min.

(1) Cytosine, (2) Uracil, (3) Cytidine, (4) Uridine, (5) Thymine

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	Price
Sprite AE1842	4.0cm x 2.1mm ID	Each	$582
Sprite AE1822	2.0cm x 2.1mm ID	Each	$582
Sprite AE1832	1.0cm x 2.1mm ID	Each	$582

Echelon™ Analytical Columns
C18 4µm

Cat. No.	Description	Qty	Price
ADV8021	3.0cm x 2.1mm ID	Each	$404
ADV8008	5.0cm x 2.1mm ID	Each	$464
ADV8009	10.0cm x 2.1mm ID	Each	$459
ADV8010	15.0cm x 2.1mm ID	Each	$491

Echelon™ <2µm Columns
C18   100Å   1.7µm

Cat. No.	Description	Qty	Price
ADV8106	2.0cm x 2.1mm	Each	$746
ADV8107	3.0cm x 2.1mm	Each	$746
ADV8108	5.0cm x 2.1mm	Each	$855
ADV8117	10cm x 2.1mm	Each	$831

Echelon™ 3µm Columns
C18   100Å   3µm

Cat. No.	Description	Qty	Price
ADV8302	2.0cm x 2.1mm	Each	$502
ADV8303	3.0cm x 2.1mm	Each	$502
ADV8304	5.0cm x 2.1mm	Each	$513
ADV02M5	2.0cm x 0.5mm	Each	$508

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.

3-hydroxybenzoic acid
MRM:137/93

4-hydroxybenzoic acid
MRM:137/93
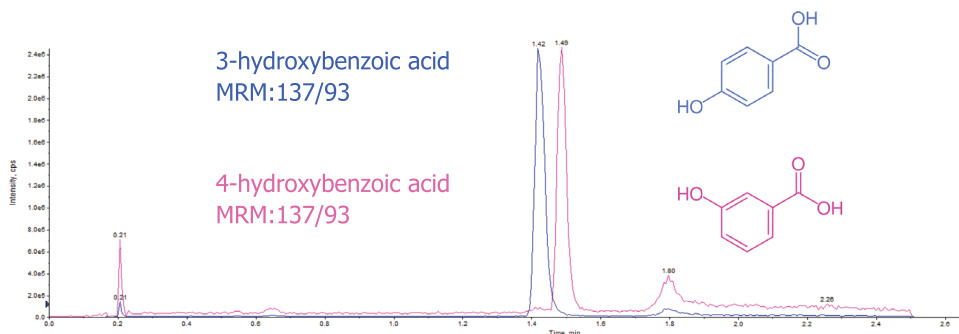
Chromatograms of two separate injections of the isomers overlaid for easier comparison.

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

25

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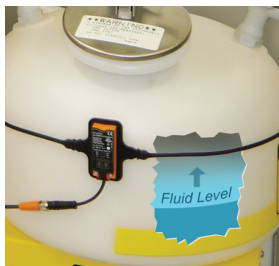
Another sensor can be set to detect high fluid level in your waste container.

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	Price
Sentinel	Solvent Safety Alarm System, includes Control Module, Beacon and 3 Sensors	$3,380

Stainless Steel Tubing with No End Fittings

Cat. No.	Dimensions	Qty	Price
990041-Flex	**10cm x 0.004"ID**	Each	$87
990011-Flex	10cm x 0.005"ID	Each	$87
930011-Flex	10cm x 0.007"ID	Each	$87
990042-Flex	**20cm x 0.004"ID**	Each	$87
990015-Flex	20cm x 0.005"ID	Each	$87
930015-Flex	20cm x 0.007"ID	Each	$87
990043-Flex	**30cm x 0.004"ID**	Each	$87
990028-Flex	30cm x 0.005"ID	Each	$87
930028-Flex	30cm x 0.007"ID	Each	$87

Single UHPLC Assembly

Cat. No.	Dimensions	Qty	Price
990141-Flex	**10cm x 0.004"ID**	Each	**$100**
990111-Flex	10cm x 0.005"ID	Each	$100
930111-Flex	10cm x 0.007"ID	Each	$100
990142-Flex	**20cm x 0.004"ID**	Each	**$104**
990115-Flex	20cm x 0.005"ID	Each	$104
930115-Flex	20cm x 0.007"ID	Each	$104
990143-Flex	**30cm x 0.004"ID**	Each	**$105**
990128-Flex	30cm x 0.005"ID	Each	$105
930128-Flex	30cm x 0.007"ID	Each	$105

Double UHPLC Assembly

Cat. No.	Dimensions	Qty	Price
990241-Flex	**10cm x 0.004"ID**	Each	**$130**
990211-Flex	10cm x 0.005"ID	Each	$130
930211-Flex	10cm x 0.007"ID	Each	$130
990242-Flex	**20cm x 0.004"ID**	Each	**$137**
990215-Flex	20cm x 0.005"ID	Each	$137
930215-Flex	20cm x 0.007"ID	Each	$137
990243-Flex	**30cm x 0.004"ID**	Each	**$140**
990228-Flex	30cm x 0.005"ID	Each	$140
930228-Flex	30cm x 0.007"ID	Each	$140

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

27

Shown with heater (not included)

MonoSLEEVE™ Controller

- **Self-calibrating**
- **Plug & Play smart heater technology**
- **Temperature range from 25ºC to 85ºC**
- **Controller comes with Power Supply, USB Cable, GUI Software and Manual**

MonoSLEEVE is the next generation of the original HotSleeve controller. With it's advanced "Plug & Play" technology, MonoSleeve can accommodate single **HotSleeve**™**+*** or **AgileSleeve+®*** column heaters of different sizes without having to recalibrate to each individual sleeve. This allows you to switch out different heaters on the fly.

* HotSleeve+ is the latest "smart" version of the original HotSleeve.
  AgileSleeve+ is the latest "smart" version of AgileSleeve.

Note: MonoSLEEVE will only accept HotSleeve+ and AgileSleeve+ heaters with "Plug & Play" technology. See information about these heaters on pages 30-31.

Cat. No.	Description	Qty	Price
MonoSLEEVE	Single Column Heater Controller (*heater not included*)	Each	$1510

*Shown with heaters
(not included)*

MultiSLEEVE™ Controller

- **Self-calibrating**
- **Plug & Play smart heater technology**
- **Controls up to 4 column heaters simultaneously**
- **Use to heat capillary, N_2, sheath gas lines, etc.**
- **4 independent channels**
- **Used in multiplexing applications**
- **Temperature range from 25ºC to 85ºC**
- **Controller comes with cables, manual and USB GUI software.**

The MultiSLEEVE controller is used for applications which require multiple heating zones or multiple LC system heating. Used in conjunction with **HotSleeve**™**+***and/or **AgileSleeve+**®* heaters it maintains four independent channels simultaneously and accurately while reducing overall equipment costs.

** HotSleeve+ is the latest "smart" version of the original HotSleeve.
 AgileSleeve+ is the latest "smart" version of AgileSleeve.*

Note: MultiSLEEVE will only accept HotSleeve+ and AgileSleeve+ heaters with "Plug & Play" technology. See information about these heaters on pages 30-31.

| Cat. No.	Description	Qty	Price
MultiSLEEVE	Multiple Column Heater Controller *(heaters not included)*	Each	$3,749

HotSleeve™+

Analytical Size Column Heaters

- **Self-calibrating**
- **Temperature range from 5ºC above ambient to 85ºC**
- **Accommodates HPLC columns up to 30cm in length**
- **Available in 5/10/15/25/30cm lengths, as well as Prep & Semi-Prep sizes**
- **Tube style design: Unsnap for easy column insertion & removal**

The **HotSleeve+** is a self-calibrating "smart' heater that utilizes "Plug & Play" technology. This technology eliminates error generated when switching heaters from one system to another. It incorporates a unique "Tube Style" design which encapsulates a single HPLC column up to 30cm in length.

The **HotSleeve+** replaces the original Hot Sleeve column heater. Use with either the **MultiSLEEVE**™ controller or the **MonoSLEEVE**™ controller only, sold separately.

Cat. No.	Description	Qty	Price
HSI-5L	HotSleeve+ Heater for 5cm Columns	Each	$646
HSI-10L	HotSleeve+ Heater for 10cm Columns	Each	$646
HSI-15L	HotSleeve+ Heater for 15cm Columns	Each	$725
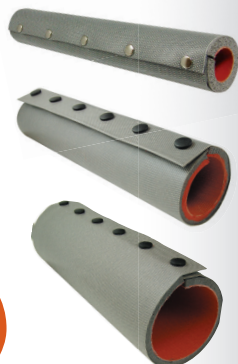
Call to inquire about Prep, Semi-prep and Super size HotSleeve+

TECH TIP:

A temperature fluctuation as little as 2ºC in either direction is enough to adversely effect the performance of even the most tried and true methods. HotSLEEVE+ and AgileSLEEVE+ heaters are accurate to within ± 0.1ºC, ensuring optimum performance.

AgileSleeve+®

Flexible Capillary Heater

- **Self-calibrating**
- **Accurate from 5ºC above ambient to 100ºC**
- **Heat lines up to 30cm long, with ODs of 1/32" or 1/16"**
- **Great for small diameter analytical columns, nanospray, injector or pre-column mobile phase lines**

AgileSleeve+® slips over a small diameter capillary column, nanospray line, injector line, or pre-column line before the end fittings are attached. It is available in a variety of lengths up to 30cm, with IDs of 1/32" or 1/16". Each is color-coded for quick diameter identification.

AgileSleeve+® replaces the original AgileSleeve heater and uses "smart" Plug & Play technology. Use with either the **MultiSLEEVE™** controller or the **MonoSLEEVE™** controller only, sold separately.

Cat. No.	Description	Qty	<u>Price</u>
ASI1032H	AgileSleeve+, 10cm x 1/32" ID Self-calibrating Heater	Each	$419
ASI1016H	AgileSleeve+, 10cm x 1/16" ID Self-calibrating Heater	Each	$419
ASI1532H	AgileSleeve+, 15cm x 1/32" ID Self-calibrating Heater	Each	$503
ASI1516H	AgileSleeve+, 15cm x 1/16" ID Self-calibrating Heater	Each	$503
ASI2532H	AgileSleeve+, 25cm x 1/32" ID Self-calibrating Heater	Each	$604
ASI2516H	AgileSleeve+, 25cm x 1/16" ID Self-calibrating Heater	Each	$604
ASI3032H	AgileSleeve+, 30cm x 1/32" ID Self-calibrating Heater	Each	$725
ASI3016H	AgileSleeve+, 30cm x 1/16" ID Self-calibrating Heater	Each	$725

AgileSleeve+ is also available in longer lengths - call for details

CE

All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

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	Price
62-414	with -06 Resistor Cartridge, Ratio 1:1-20:1	$2,560
62-413	with -04 Resistor Cartridge, Ratio 5:1-100:1	$2,560
62-412	with -03 Resistor Cartridge, Ratio 15:1-250:1	$2,560

Replacement Resistor Cartridges for Adjustable Post-Column Flow Splitter

Cat. No.	Description	Qty	Price
61-115	Replacement -06 Resistor Cartridge, Ratio 1:1-20:1	Each	$958
61-114	Replacement -04 Resistor Cartridge, Ratio 4:1-100:1	Each	$958
61-113	Replacement -03 Resistor Cartridge, Ratio 15:1 - 250:1	Each	$958

Replacement Inlet Filters for Adjustable Post-Column Flow Splitter

Cat. No.	Description	Qty	Price
66-063	Replacement Inlet Filter, 2μm x 0.063 diameter	5	$100

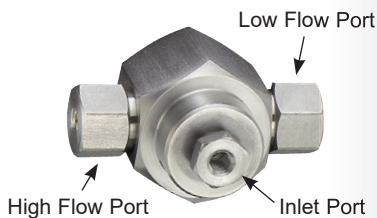# Fixed Post-Column Binary Flow Splitters
Models 63 - For Post Column Applications

- **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	Price
63-423	Binary Fixed Splitter, Ratio 1:1	Ea	$1,334
63-422	Binary Fixed Splitter, Ratio 3:1	Ea	$1,334
63-424	Binary Fixed Splitter, Ratio 4:1	Ea	$1,467
63-421	Binary Fixed Splitter, Ratio 5:1	Ea	$1,334
63-420	Binary Fixed Splitter, Ratio 10:1	Ea	$1,334

Low Flow Port

High Flow Port   Inlet Port

Replacement Resistors for Fixed Post-Column Binary Flow Splitters

Cat. No.	Description	Qty	Price
63-443	Replacement Resistor, Ratio 1:1	Ea	$958
63-442	Replacement Resistor, Ratio 3:1	Ea	$958
63-441	Replacement Resistor, Ratio 5:1	Ea	$958
63-440	Replacement Resistor, Ratio 10:1	Ea	$958

Replacement Inlet Filters
for Binary Fixed Flow Splitter Model 63

Replacing the inlet filter prevents clogging of the splitter

Cat. No.	Description	Qty	Price
77-125	Replacement Binary Inlet Filter, 2μm x 0.063 Dia.	5	$100

Accessories

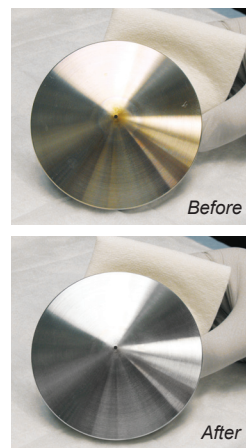| Cat. No.	Description	Price
63-111	Mounting Bracket	$147

63-111

Infusion Kits

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

Cat. No.	Description	Volume	Qty	Price
44405	Infusion Kit	50µL	Each	$170
44401	Infusion Kit	100µL	Each	$170
44425	Infusion Kit	250µL	Each	$170
44450	Infusion Kit	500µL	Each	$170
44410	Infusion Kit	1.0mL	Each	$170
44420	Infusion Kit	2.5mL	Each	$170
55510	Infusion Kit	10mL	Each	$187
55525	Infusion Kit	25mL	Each	$450

Before

After

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	Price
67001	Mass Spec Polishing Kit	Each	$40

33

analytical

Proud Makers of:

SiliGuard™
SG
Low Bind
COATING

TrueTaper®
COLLECTION PLATES

Canary Safe™
Solvent Safety Products

FlexChrom®
Flexible Stainless Steel Tubing

HotSleeve™
Family of Column Heaters

Born in NEW JERSEY,
Made in the USA