



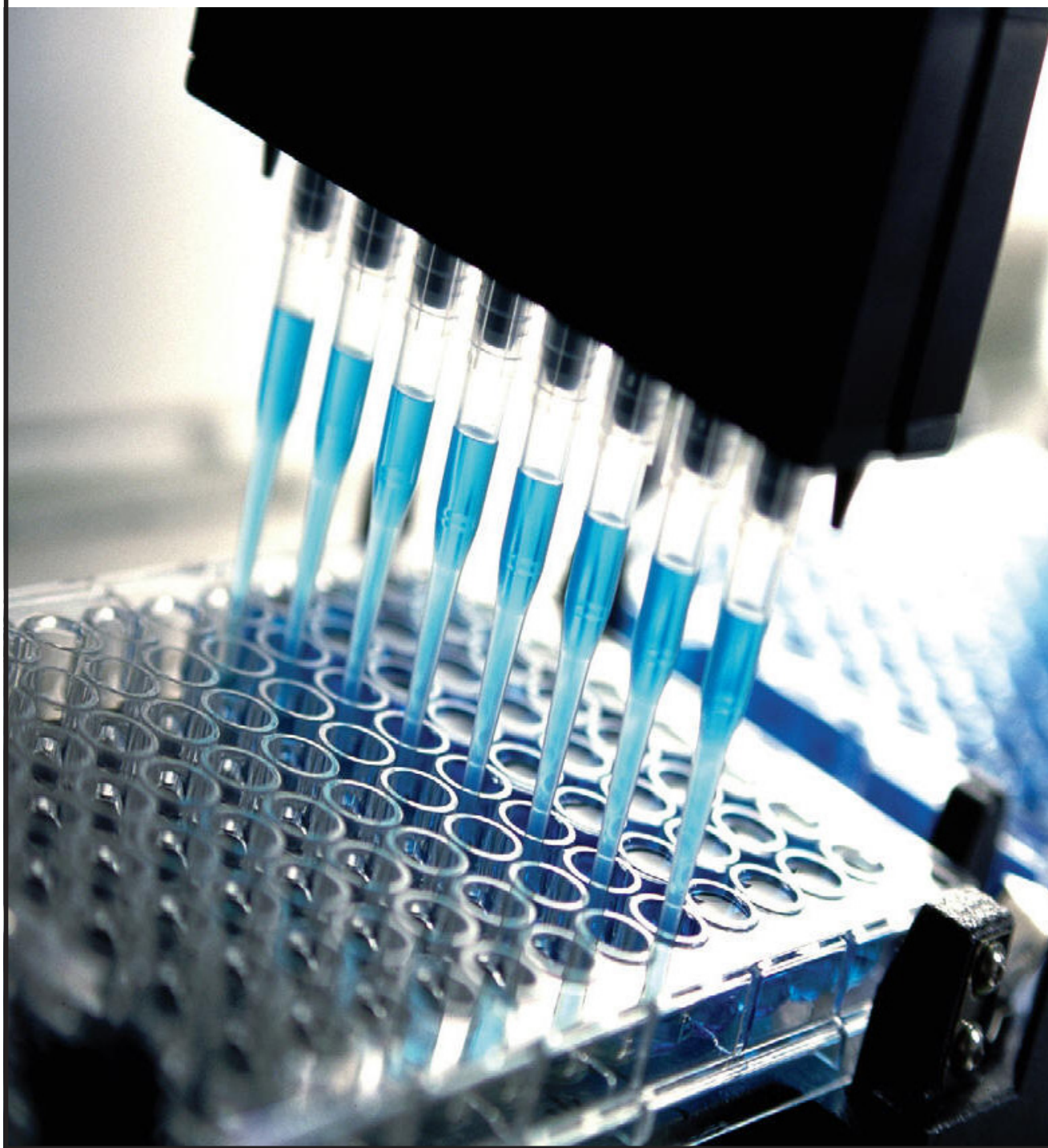
INTERNATIONAL  
CONFERENCE & EXHIBITION



E&K SCIENTIFIC

*a Thomas Scientific, LLC company*

**FEB. 2-6** | [SLAS2019.ORG](http://SLAS2019.ORG)  
**WASHINGTON, DC**  
WALTER E. WASHINGTON CONVENTION CENTER



# Announcing PEAK Bio Solutions

## A Collaboration Between E&K Scientific Products and Phenix Research

PEAK Bio Solutions represents a merger of E&K Scientific Products and Phenix Research, that will focus on complex laboratory workflows. Both companies remain a part of the growing Thomas Scientific group and for the time being, there will be no change in how you do business with E&K. The integration of our two companies will take place over the first half of 2019 and will provide a powerful national choice for customers involved in PCR, robotics/laboratory automation, 2D tube workflows and more. We are separate from, but connected to and supportive of, the growing Thomas Scientific group.

We believe that partnering with laboratory technicians and scientists to better understand their challenges allows us to collaboratively work toward a common solution. Our pledge to exceptional customer service, proven technical expertise and collaboration makes us a great choice for your go-to supplier for scientific laboratory needs. From answering technical workflow questions to rapidly delivering high-quality, affordable products, our value comes from a team of technically trained individuals using a consultative approach to understand your unique needs. Our goal is to serve you at the highest level through proven lab solutions, improved automated workflows and scientific goals attainment, through our diverse set of innovative products.



### Automation

- Automation Accessories
- Magnetic Plates
- Microplates
- Pipetting Station
- Reservoirs
- Robotic Tips
- Sealing Mats
- Separation Plates
- Tubes & Vials Systems

### Cell Culture

- BioReaction Tubes
- Buffers
- Cell Culture Supports
- Enhanced Surfaces
- Filtration
- Flasks
- Media & Media Bottles
- Multiwell Plates
- Serological Pipets

### Molecular Biology

- Agarose
- Nuclease Free Water
- PCR Tubes
- PCR Plates
- Precast Gels
- qPCR Products
- Sealing Solutions
- Western Blotting

### Sample Preparation

- 96 Well Purification Kits
- Binding Plates
- Columns
- DNA Purification Kits
- Magnetic Bead Separation
- Protein Synthesis
- Reagents
- RNA Purification Kits

### Sample Storage

- Barcode & Label Printers
- Capping System
- Cardboard Boxes
- Chillers & Coolracks
- Cryogenic Vials
- Freezer Storage
- Labels
- Scanners & Readers
- Tubes
- Tube Sorters
- Volume Check

### Equipment

- Autoclaves
- Centrifuges
- Baths
- Electrophoresis
- Grinder & Homogenizers
- Pipettors & Dispensers
- Mixers, Rockers & Shakers
- Power Supplies
- Stirrers & Rotators
- Thermal Cycler
- Vortexer

### General Supplies

- Bottles
- Carboys
- Gloves
- Pipetting
- Racks
- Reservoirs
- Safety Supplies
- Sealing
- Tubes
- Vials
- Wipes

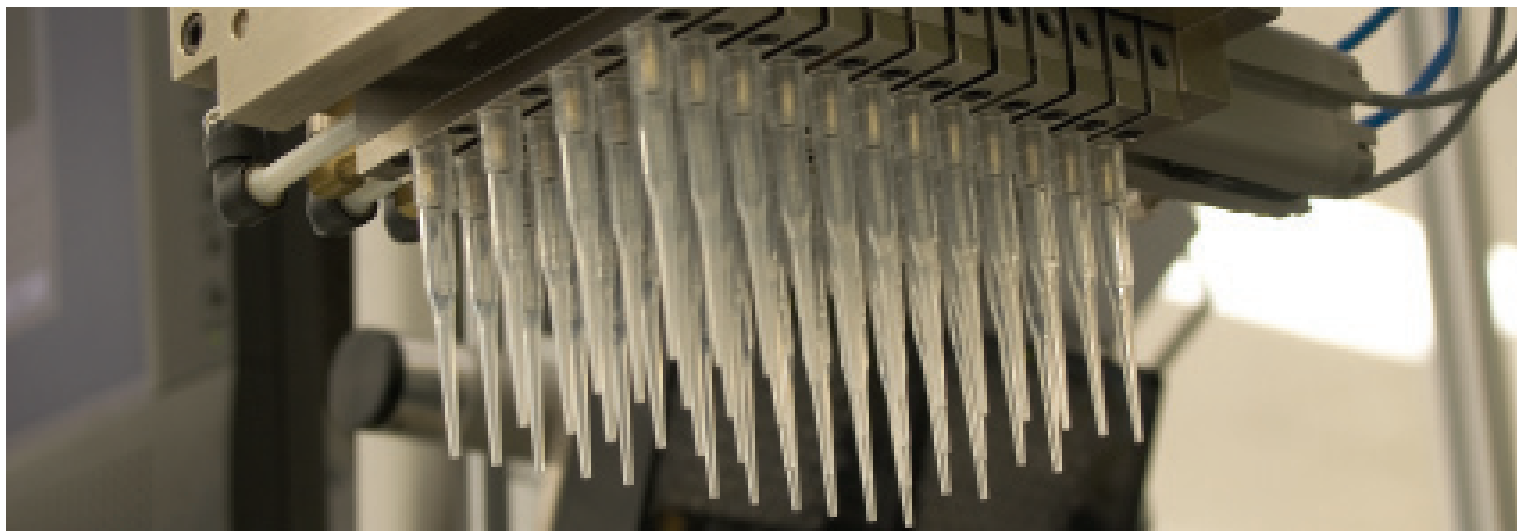
### E&K Scientific Products

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Santa Clara, CA 95054

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**Fax:** 408-567-9671  
**E-mail:** [service@eksci.com](mailto:service@eksci.com)  
**Web:** [www.eksci.com](http://www.eksci.com)

# Automation Tips

RELIABLE PERFORMANCE AND SUPERIOR QUALITY

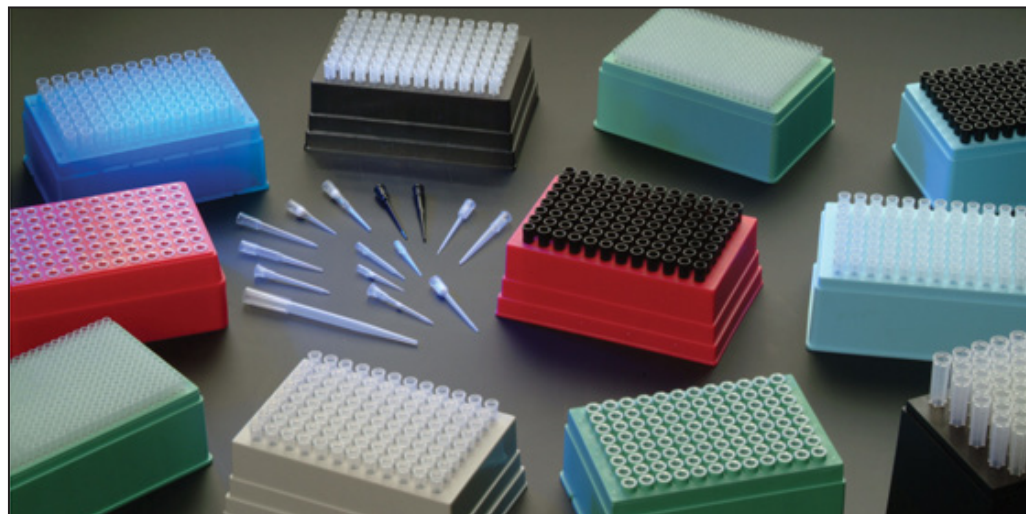


E&K Scientific offers a wide range of automation tips that are engineered to the exact specifications of the original equipment manufacturers' tips, ensuring complete compatibility and a consistent fit.

Engineering expertise and stringent QA/QC allows us to deliver optimum performance no matter which automated liquid handler you are working with.

## FEATURES

- ▶ Available in 96 & 384 formats
- ▶ Complete compatibility and consistent fit
- ▶ Optimum workstation performance
- ▶ Complete manufacturing control ensures defects are eliminated
- ▶ Low binding available in most tip styles
- ▶ Unsurpassed straightness – hit every well, every time!
- ▶ Filter barrier prevents aerosol and liquid contamination
- ▶ Certified DNase-, RNase- and Pyrogen-free



## WE OFFER COMPATIBLE TIPS FOR THE FOLLOWING:

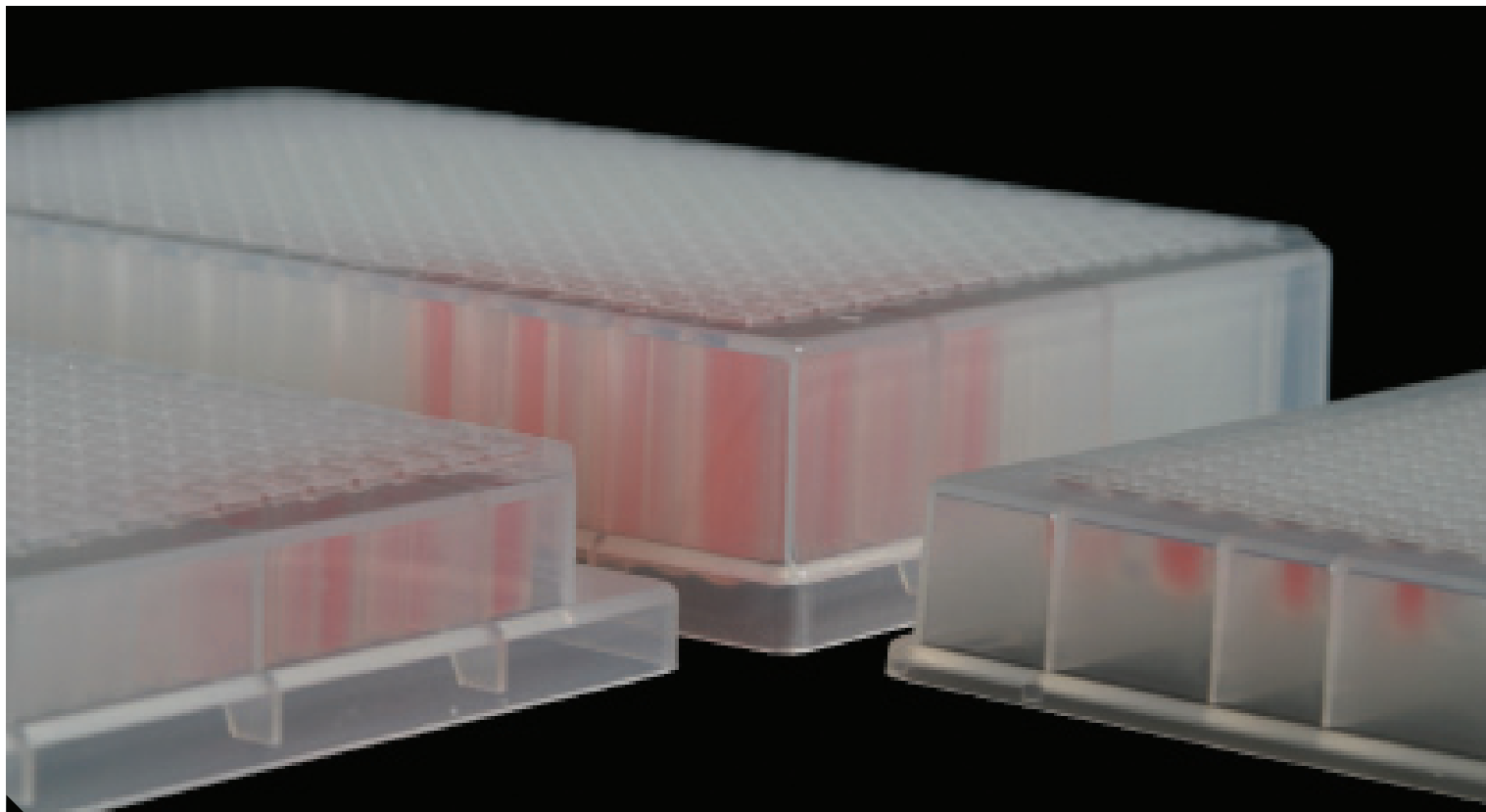
Agilent® / Velocity11  
Beckman® Coulter  
BIOTEK®  
Dynamic Devices  
Hamilton  
Molecular Device Liberty  
Perkin Elmer  
Tecan®  
Zymark®/Caliper  
And more...



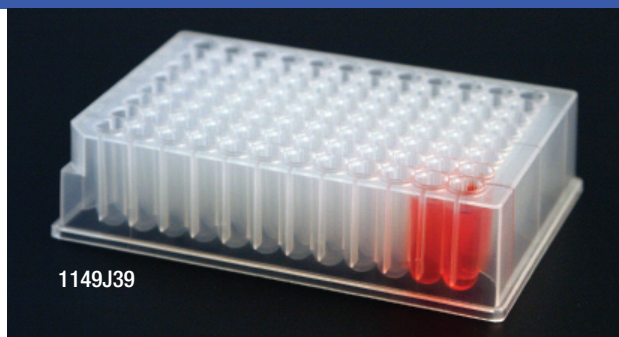


# Storage Plates

GET THE RIGHT TOOL FOR THE TASK



## 96 & 384 Well Plates for Mixing, Sample Collection and Long Term Storage



- ▶ **Unique larger well diameter**
- ▶ **Raised wells for improved sealing**
- ▶ **Solvent resistant polypropylene**
- ▶ **Storage down to -80°C**
- ▶ **ANSI/SLAS standard footprint**
- ▶ **Certified DNase and RNase Free**

OmniGenX deep well plates are ideal for sample collection, in-vitro growth chambers and long-term storage.

Made of virgin polypropylene, they offer excellent chemical resistance and withstand temperatures down to -80°C.

Our innovative OmniGenX 96 Well Target Plates have a well diameter that is 20% larger than the standard 96 well plate producing a larger volume well. So - our standard height plates hold more volume, our 1.2ml plate is half the height of typical 1ml plates and our 2ml plate has a round well, not square, reducing wicking and cross contamination.

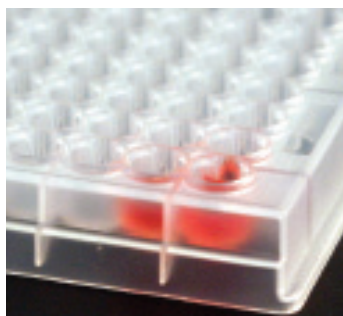
A unique portfolio!

In addition, OmniGenX plates come with either Round (U) or Conical (V) bottom wells for complete sample retrieval.



## OmniGenX 96 Well Target Storage Plates - 20% LARGER WELL!

- ▶ 20% larger well for max well capacity and space savings
- ▶ Low binding options available
- ▶ Ideal for mixing, sample collection, and long term storage
- ▶ Raised wells for thermal or adhesive sealing

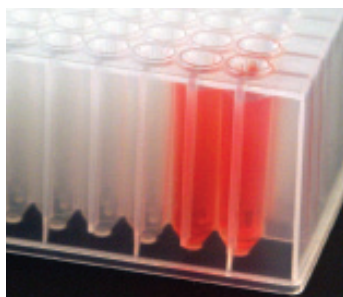


1149J34

Part#	Description	Well Ø	Height	Qty
1149J34	96 Round Well Plate, V-Bottom, 450µl	8.50mm	14.4mm	100/Cs
1149J36	96 Round Well Plate, U-Bottom, 500µl	8.50mm	14.4mm	100/Cs
<b>Target 1.2ml Low Profile Plate - Half the Height of Standard 1ml Deep Well Plates</b>				
1149J39	96 Round Well Plate, U-Bottom, 1.2ml	8.50mm	24.0mm	50/Cs
<b>Target 2.0ml Plate - Eliminates Wicking</b>				
1149J52	96 Round Well Plate, U-Bottom, 2.0ml	8.50mm	45.0mm	50/Cs

## OmniGenX 96 Deep Well Storage Plates

- ▶ Low dead volume conical bottom plates for complete sample recovery
- ▶ Round wells for thermal or adhesive sealing

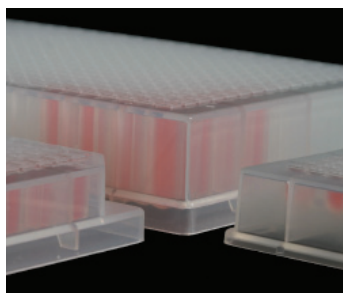


1149K98

Part#	Description	Well Ø	Height	Qty
1149K98	96 Round Well Plate, V-Bottom, 1.3ml	7.40mm	40.6mm	50/Cs
1149B84	96 Round Well Plate, Baffled Bottom, 2.0ml	8.50mm	45.0mm	50/Cs
1149J45	96 Square Well Plate, V-Bottom, 2.2ml	8.20mm	41.2mm	50/Cs
<b>1.2ml Low Profile Plate - Half the Height of the Standard Deep Well Plate</b>				
1149J41	96 Square Well Plate, V-Bottom, 1.2ml	8.34mm	24.0mm	100/Cs

## 384 Well Storage Plates

- ▶ Low dead volume V-bottom design for complete sample recovery
- ▶ Raised wells for thermal or adhesive sealing



384 Plates

Part#	Description	Height	Qty
1149J47	384 Well Plate, V-Bottom, 120µl, Clear	14.3mm	100/Cs
1149J86	384 Deep Well Plate, V-Bottom, 240µl, Clear	25.2mm	50/Cs
1149Q34	384 Well Plate, Small Vol, U-Bottom, 58µl, Clear	14.5mm	60/Cs



# Reusable Reservoirs

GET THE RIGHT TOOL FOR THE TASK



## Specialized Microplate Reagent Reservoirs Simplify Small Volume Transfers



- ▶ **Sturdy Virgin Polypropylene**
- ▶ **Autoclavable & Chemical Resistant**
- ▶ **ANSI/SLAS Standard Footprint**
- ▶ **Compatible w/Virtually any Liquid Handler**
- ▶ **Low Dead Volume Designs**
- ▶ **Available in Sterile & Non Sterile Formats**
- ▶ **Certified DNase and RNase Free**

Unlike pipette box lids and disposable reservoirs, reusable reservoirs are sturdy containers that allow **manual access and handling of assay solutions**. They can be filled and stacked vertically to **minimize footprint** on automated platforms or within hoods, and can also be exposed to **harsh temperatures and chemical conditions**.

Small segmented chambers provide the ideal volume for scarce solutions, while offering a bottom geometry that **minimizes dead volumes**. The orientation of the chamber can **optimize transfers** with different sizes of manual pipettors.

Segmented reagent reservoirs are also **useful in “printing” reagent combination patterns** for Design Of Experiment (DOE) assays using automated 96- and 384-channel pipettor heads.



## Column Format Reservoirs



1149Q22

Part#	Format	Columns	Style	Partitions	Row Vol	Plate Vol	Dead Vol	Qty
1149Q22	12/96 Well	12	Deep Well	Yes	21ml	252ml	0.5ml	25/Cs
1149Q30	12/96 Well	12	Low Profile	Yes	7ml	84ml	0.5ml	25/Cs
1149Q32	6/24 Well	6	Deep Well	Yes	47ml	282ml	1.08ml	25/Cs
1149Q37	24/384 Well	24	Low Profile	Yes	3.3ml	78ml	0.12ml	25/Cs
1149Q38	24/96 Well	24	Low Profile	Yes	3.5ml	78ml	0.25ml	25/Cs
1149Q42	4-Well	4	Deep Well	Yes	73ml	300ml	0.5ml	25/Cs

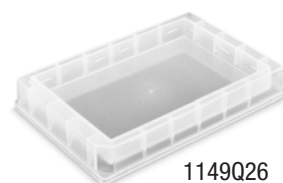
## Row Format Reservoirs



1149Q23

Part#	Format	Columns	Style	Partitions	Row Vol	Plate Vol	Dead Vol	Qty
1149Q23	96 Well	8	Deep Well	Yes	32ml	256ml	0.82ml	25/Cs
1149Q31	96 Well	8	Low Profile	Yes	10.6ml	85ml	0.82ml	25/Cs
1149Q36	16/384 Well	16	Low Profile	Yes	4.9ml	78ml	0.18ml	25/Cs

## Individual Well Format Reservoirs



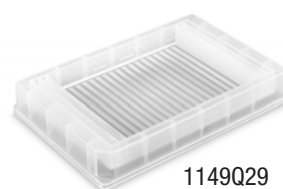
1149Q26



1149Q24

Part#	Format	Columns	Style	Partitions	Row Vol	Plate Vol	Dead Vol	Qty
1149Q26	96 Well	1, Flat	Low Profile	No	N/A	90ml	0.64ml	25/Cs
1149Q21	96 Well	8	Deep Well	No	N/A	290ml	0.82ml	25/Cs
1149Q20	12/96 Well	12	Deep Well	No	N/A	290ml	0.5ml	25/Cs
1149J12	96 Well	1	Deep Well	No	N/A	300ml	0.64ml	25/Cs
1149J14	96 Well	1	Low Profile	No	N/A	86ml	0.064ml	25/Cs
1149Q24	384 Well	1	Deep Well	No	N/A	282ml	0.007ml	25/Cs
1149Q25	384 Well	1	Low Profile	No	N/A	92ml	0.007ml	25/Cs
1149Q40	384 Well	1	Half Height	No	N/A	170ml	0.007ml	25/Cs

## Open Format Reservoirs w/Controls



1149Q29

Part#	Format	Columns	Style	Partitions	Row Vol	Plate Vol	Dead Vol	Qty
1149Q29	384 Well	24	Low Profile	4 Controls	3.25ml	79.3ml	0.12ml	25/Cs
1149Q39	384 Well	2	Half Height	4 Controls	2.60ml	155ml	0.007ml	25/Cs
1149Q33	384 Well	1	Deep Well	2 Controls	N/A	282ml	0.007ml	25/Cs





# Heat Sealers

## a4S Automatic Heat Sealer

*Flexible - Easy - Reliable: the perfect solution for automated heat sealing*

- No air supply needed
- Compatible with a wide range of the plate types
- Plug and Play Robotic Integration
- Seals in less than 15 seconds

Part #	Description
1149T97	a4S Automatic Heat Sealer

**NO  
Air Supply  
Needed!**



### SPECIFICATIONS:

Weight:	27kg
Voltage:	110/230V
Max Power Consumption:	700W
Power Saving Mode:	20W
Sealing Temp.:	100 - 200°C
Sealing Time:	0-10sec
Dimensions (WxLxH):	230x507x276mm
Connection:	RS-232 serial port, USB port



## 4s3™ Semi Automated HeatSealer

- Automatic sealing process for high sealing consistency
- Drawer closes automatically
- Selectable temperature and time settings for optimum results
- Tight temperature control across the heating block (+/- 0.5°C)
- Single action operation - closing the draw initiates the process
- Compatible with a wide range of the plate types
- Full range of thermal seals available

Part #	Description
1149T93	4s3™ Thermal Sealer* (Universal Power Supply, Power Cord, and Manual)
1149T87	Adaptor for Standard 96 Well and 384 Well Plates
1149T81	Seal Platten (to hold down sealing sheets that have a tendency for curling)
1149T90	Adaptor for 96 Well PCR Plates

### SPECIFICATIONS:

Weight:	9kg
Voltage:	110/230V
Power:	300W
Sealing Temp.:	60 - 200°C
Dimensions (WxLxH):	181x275x310mm





# Heat Seals

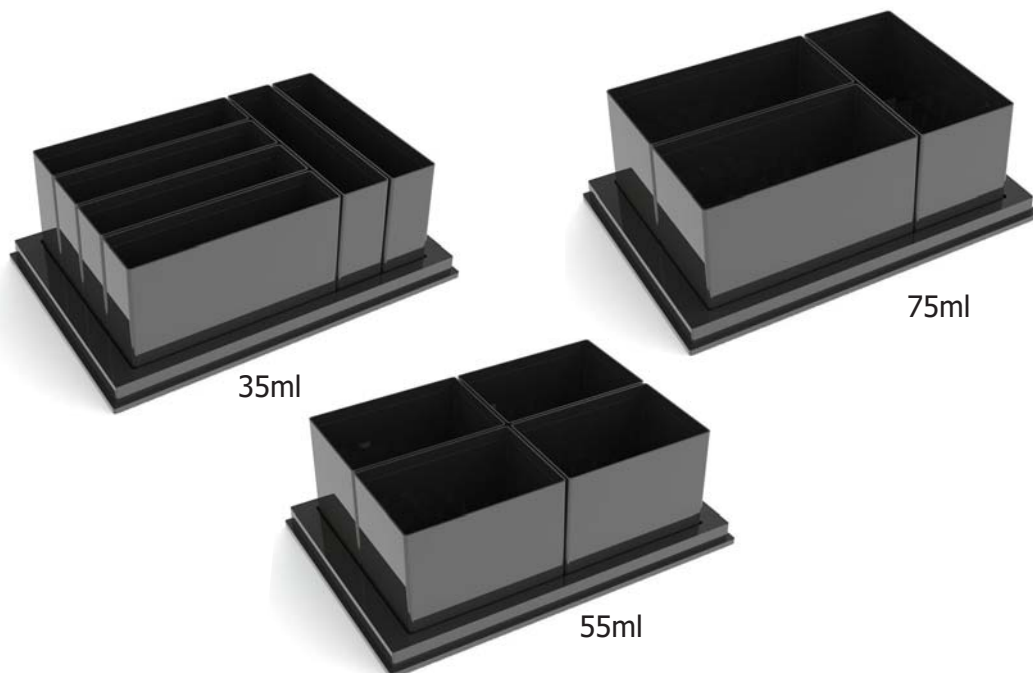
Heat Seal	Description	Temp Range	Applications	Part #	Packaging
Clear Seal	Clear polymer forming a peelable seal to PP, PE, PS, PC and COC plates. Good optical clarity. Moderate solvent resistance.	-80°C to 80°C, 110°C with pressurised PCR heated lids	qPCR, short term compound storage	1149T22	ALPS/A4S Style, 500m
				1149T30	Agilent Style, 350m
Clear Seal Plus	Homogenization or disruption of seeds or other material, e.g. bead mill applications	-80°C to 80°C, 110°C with pressurised PCR heated lids	High tensile strength	1149T39	ALPS/A4S Style, 250m
				1149T42	Agilent Style, 250m
Clear Seal 3730	Clear polymer. Seals to PP, PS, PE and COC. Piercable. Good optical clarity, some solvent resistance. Non peelable.	-20°C to 80°C, 110°C with pressurised PCR heated lids	For use with the ABI™ 3730 Sequencer as the thinner structure pierces more easily.	1149T51	ALPS/A4S Style, 610m
				1149T55	Agilent Style, 500m
Polystyrene Foil Seal	<b>Optimized for polystyrene plates. Peelable and pierceable</b> heat seal. Good solvent resistance including DMSO. Re-sealable w/another Foil Seal.	-20°C to 110°C	Low temp compound storage, short term room temp compound storage, PCR.	1149T34	ALPS/A4S Style, 610m
				1149T37	Agilent Style, 500m
Foil Seal	<b>Peelable and pierceable</b> heat seal to PP and PS plates. Good solvent resistance including DMSO. Resealable with another Foil Seal.	-20°C to 110°C	Low temp compound storage, short term room temp, compound storage, PCR.	1149T08	ALPS/A4S Style, 610m
				1149T13	Agilent Style, 500m
Pierce Seal	Heat seal to PP and PS plates that can be easily pierced with a tip. Very good solvent resistance including DMSO. Can be applied on top of each other for resealing.	-20°C to 120°C	PCR, compound storage, sample shipping.	1149T00	ALPS/A4S Style, 610m
				1149T05	Agilent Style, 500m
Pierce Seal Strong	This seal is peelable from COC plates and gives a weld seal to PP plates. Very good solvent resistance including DMSO. Can be pierced with a pipette tip manually, or by a liquid handling robot.	-20°C to 120°C	PCR, sample shipping, low and room temperature compound storage with DMSO and other organic solvents.	1149T16	ALPS/A4S Style, 610m
				1149T20	Agilent Style, 500m
<b>NEW</b> Universal Peel Seal	Moderate solvent resistance Re-sealable with another Universal Peel Heat Seal	-80°C to 90°C, 110°C with pressurised PCR heated lids	Low temp compound storage, high temp applications, PCR	1149R95	ALPS/A4S Style, 610m
				1149R98	Agilent Style, 500m
Peel Seal	Peelable heat seal to PP plates. Can be peeled directly from 80°C freezer. Good barrier to aqueous solutions. Moderate resistance to solvents at room temp.	-80°C to 90°C, 110°C with pressurised PCR heated lids	Low temp, compound storage, short term room temp, compound storage (<5 days), PCR.	1149R89	ALPS/A4S Style, 600m
				1149R93	Agilent Style, 500m
DMSO Resistant Peel Seal	Peel Seal with a high resistance to solvents, even at elevated temp.	-80°C to 40°C	Both low and room temp compound storage with DMSO and other organic solvents. Good seal on COC plates.	1149T57	ALPS/A4S Style, 500m
				1149T61	Agilent Style, 500m Mini-Roll
Gas Permeable Seal Mk 2	Small pore size that allows gaseous exchange, but limits evaporation. Moisture Vapour Transmission Rate >20g/sqm/24h. Smaller than 20µm pore size.	-20°C to 80°C	Cell culture, overnight incubation, seed, and insect storage.	1149T73	ALPS/A4S Style, 200m
				1149T76	Agilent Style, 500m



## Custom Labware at a Fraction of the Cost

Choose from 35ml, 55ml, and 75ml reservoirs and configure your FlexTrough in a way that optimizes your reagent use and plate map while decreasing run time.

- 3 reservoir sizes
- Configure as needed
- Black material protects contents
- Colored bases for process control

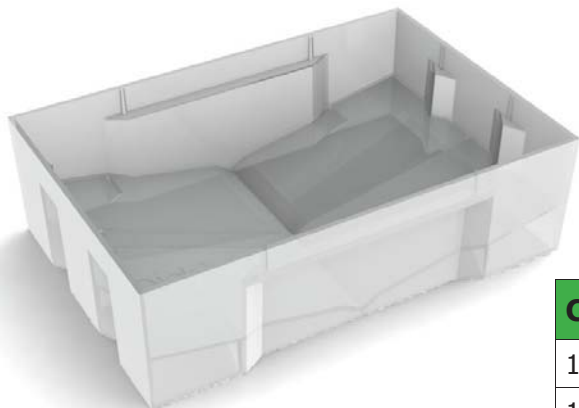


Catalog #	Product Name	Description	Packaging
1149B62	35ml FlexTroughs	150 x 35ml Reservoirs	25 Assemblies
1149B63	55ml FlexTroughs	100 x 55ml Reservoirs	25 Assemblies
1149B64	75ml FlexTroughs	75 x 75ml Reservoirs	25 Assemblies
1149B68	FlexTroughs, Mixed Sizes	8 x 75ml, 8 x 55ml, 9 x 35ml Reservoirs	25 Assemblies

## The VBLOK200

- High capacity, low dead volume
- Optimized for 8-channel
- Pooling reservoir

Catalog #	Product Name	Packaging
1149B70	250ml Open Reservoir, V-Bottom, Clear	Each
1149B71	250ml Open Reservoir, V-Bottom, Clear - Sterile	Each



# Introducing The New XBASE

## Universal Magnet Plates w/Fast Separation Times

The XBASE product line offers a wide range of advantages over other magnetic separation products. The bases have SBS footprints and will fit on most liquid handler decks. They are also compatible with flat bottom, round bottom, pyramid bottom, and PCR microplates in both standard and deep well formats.

- SBS compatible footprint
- Universal 24 & 96 well plate fit
- Fast separation times
- Low elution volume
- Patented dual position

**FAST**  
**Separation &**  
**LOW Elution**  
**Volume**



### FASTER SEPARATION TIMES

With a huge array of powerful magnets, the XBASE products have extremely fast separation times of around a minute.

### 2 POSITION BEAD PELLETS FOR LOW ELUTION

The XBASE's most unique feature is the patented two-position design. Start by placing the microplate in position 1, which pulls the mag beads to a ring near the bottom of the plate to allow pipette aspiration. Next, move the plate to position 2, which pulls the beads to a pellet in the bottom of the well, reducing the required elution buffer.



Catalog #	Product Name	Packaging
1149B72	XBase24, 24 Well Magnet Base for 24 Well Plates	Each
1149B75	XBase96, 96 Well Magnet Base for 96 Well Plates	Each





## FluidX™ 2D Storage Tubes

FluidX™ offers an extensive range of laser etched 2D barcoded sample storage tubes suitable for use across a variety of applications, including cryogenic storage to -196°C in vapor phase liquid nitrogen.

Delivering the highest level of sample security and tracking flexibility, our sophisticated barcode management system ensures no barcode is ever duplicated, preventing mis-labelling and mis-identification of samples.

- FluidX unique tri-labelled jacket tubes include additional linear barcode and human readable ID, to support multi-site collaboration and sample sharing.
- Tube sizes to support maximum working volumes from 80ul up to 8ml.
- Choice of capping options including screw cap, TPE septum cap and airfilm sealing.
- Internal and external thread tubes for greater sample volume flexibility.



- Double turn thread ensures reliable, secure and consistent screw cap seal.
- Flexible pack sizes with tubes supplied loose or in standard 24, 48 and 96 format SBS racks for ease of automation & liquid handling.
- Low profile racks allow for 33% increase in storage space.
- Automation friendly caps and racks for rapid, streamlined capping, decapping and barcode reading.
- LidLock and TubeLock rack features pass the “drop test” providing enhanced security.

All tubes are manufactured in a clean room environment and supplied as production sterile, certified free of heavy metals, animal contaminants, DNA, nucleases, and endotoxin.

Additional sterilization options are also available.

