2012/13 PRODUCT CATALOG

gel company

Founded in 1995 in San Francisco, Gel Company manufactures unique tools and low cost consumables for the life science research community. Our products are used in many leading Genomics, Proteomics and Cell Culture labs around the world.

Throughout this catalog you will find examples of how Gel Company brings together over 800 products to create better workflow solutions. Our company has a team of experienced scientists dedicated to developing new technologies and products as well as providing the highest level of customer support.

With distribution points in North America and quality distributors covering the rest of the globe, Gel Company is able to provide its customers with prompt delivery and friendly efficient service – all at a very competitive price.

CONTACT US

By Phone

To contact Gel Company from within the United States toll free, call 1 (800) 256-8596.

If calling from outside the United States, call 1 (415) 247-8760

By Fax

1 (415) 247-8765

By E-Mail

For General Inquiries: gelinfo@gelcompany.com

For Technical Inquiries: support@gelcompany.com

For Ordering Inquiries: ordersusa@gelcompany.com

By Mail

Gel Company, Inc
665 3rd Street, Suite 240
San Francisco, CA 94107 USA

ORDERING INFORMATION

Fax, Mail, E-Mail or Call in to use Purchase Orders
To place an order online, register at **www.gelcompany.com**

Terms

Prepayment required for the first order.
Net 30 days thereafter.

Payment

Gel Company accepts checks, major credit cards and wire transfers in US funds.

Send checks in US funds, payable to “Gel Company” via airmail or common carriers to:

Gel Company, Accounts Receivable
665 3rd Street, Suite 240
San Francisco, CA 94107

Please contact us for wire transfer details:
ordersusa@gelcompany.com

VISA, MasterCard or American Express

Provide account number, expiration date, 3-digit verification code (located on the back of your card) and your name or company name as it appears on the card.

Shipping

Orders received before 3pm PST will ship the same day.

Shipping Costs

Within the US via UPS:

- Standard (3-4 business days) $18.95
- 2nd Day $29.00
- Next Day $55.00

International (including Canada) $85.00

- Express delivery can be arranged at an additional fee

All rates subject to change without notification.

Returns/Refunds/Cancellations

Gel Company will issue a full refund for most items returned in new condition and within 30 days of shipment date. Please note that returns must include either the original packing slip or invoice. Merchandise sent in error by Gel Company will be eligible for a full refund, exchange or credit. Returns will not be accepted without prior authorization from Gel Company and may require a 10% re-stocking fee.

Cancellations will only be accepted on the same day of purchase. Gel Company must be contacted no later than 2:30pm PST for all cancellations (please contact customer service: 415-247-8760 or 800-256-8596).

APPLICATIONS

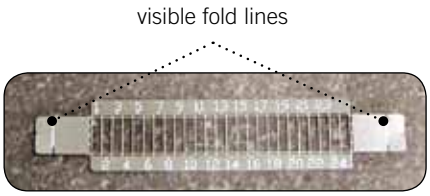
ACCESSORIES

OneTouch GridCutter
Multiple band excision

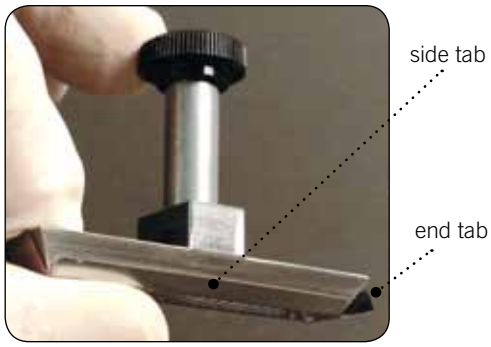
Our collection of GridCutters allows you to simultaneously excise all of the bands in a lane from a 1D gel. This is useful for shotgun proteomics, GeLCMS, or high throughput MS analysis. These gel cutting tools have a knife edge on the cutting side, enabling a smooth, efficient cut through the polyacrylamide gel. After you cut through the gel, all gel band slices will "stand" on top of the GridCutter blade until you lift each slice away with the provided angled dental pick. The blades produce cut bands of equal size, which leads to a uniform and consistent volume for trypsin digestion and recovery. Choose from nine configurations.
(Actual sizes on pages 4-5)

How does OneTouch GridCutter work?

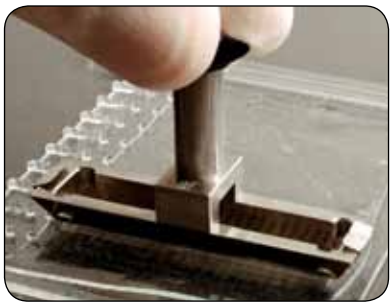
These gel cutting tools have a knife edge on the cutting side, enabling a smooth, efficient cut through the polyacrylamide gel. After you cut through the gel, all gel band slices will "stand" on top of the GridCutter blade until you lift each slice away with the provided angled dental pick. The blades produce cut bands of equal size, which leads to a uniform and consistent volume for trypsin digestion and recovery.



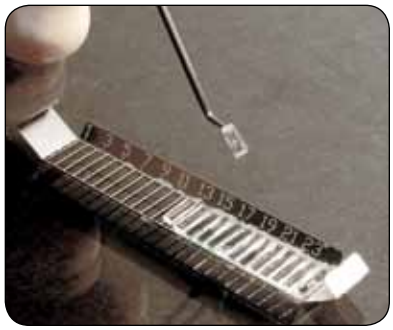
1 Orient GridCutter so that visible fold lines and printed numbers face up towards the mount.



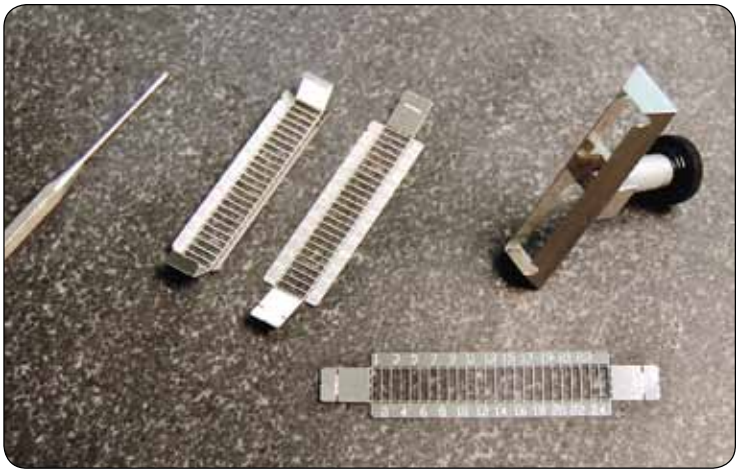
2 Center the mount onto GridCutter and fold side tabs up, bending the grid fold lines first. While pressing side tabs against the mount, fold both end tabs up and over mount.



3 Cut gel by pressing down firmly on the knob until you feel the GridCutter pressing against the hard surface. You may need to slightly rock or wiggle the mount to cut all the way through the gel.



4 Detach GridCutter from the mount and use pick to remove gels. Note: The GridCutter has a "knife" edge to force gel in one direction only. Pick gel samples from the side where fold lines and printed numbers are visible.

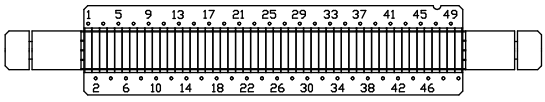


OneTouch GridCutter
Multiple band excision

- Disposable blades and mount are sold separately
- Blades are numbered for easy identification
- Mount comes with special pick for band removal
- Custom configuration also available
- Actual sizes shown below

CAT# MEE1-5-50 - Blades **$89**
Excises 50 bands (1.0mm x 5.0mm), 10/bag

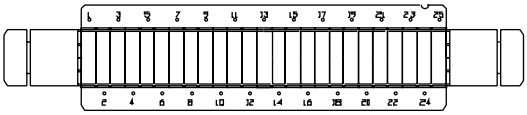
CAT# MEF50-5 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**



CAT# MEE1-5-50

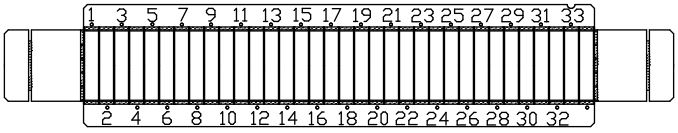
CAT# MEE2-7-25 - Blades **$89**
Excises 25 bands (2.0mm x 7.0mm), 10/bag

CAT# MEF50-7 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**


CAT# MEE2-7-25

CAT# MEE2-9-34 - Blades **$89**
Excises 34 bands (2.0mm x 9.0mm), 10/bag

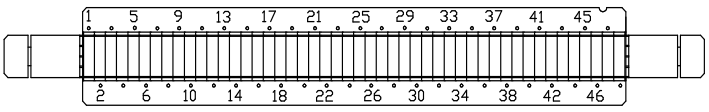
CAT# MEF67-9 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**



CAT# MEE2-9-34

CAT# MEE1.5-5-48 - Blades **$107**
Excises 48 bands (1.5mm x 5.0mm), 10/bag

CAT# MEF72-5 - Mount & Pick **$205**
CAT# MEK-4 - Pick **$18**

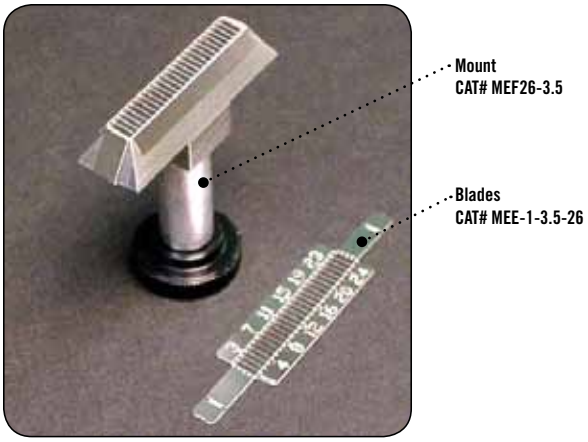


CAT# MEE1.5-5-48

OneTouch GridCutter

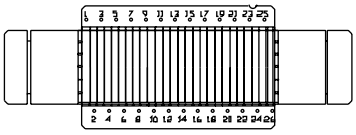
Multiple band excision

- Disposable blades and mount are sold separately
- Blades are numbered for easy identification
- Mount comes with special pick for band removal
- Custom configuration also available
- Actual sizes shown below



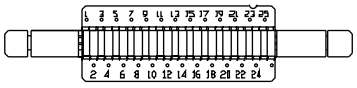
CAT# MEE1-10-26 - Blades **$89**
Excises 26 bands (1.0mm x 10.0mm), 10/bag

CAT# MEF26-10 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**


CAT# MEE1-10-26

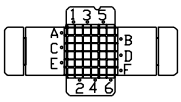
CAT# MEE1-3.5-26 - Blades **$89**
Excises 26 (1.0mm x 3.5mm) bands, 10/bag

CAT# MEF26-3.5 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**


CAT# MEE1-3.5-26

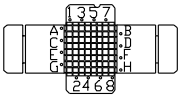
CAT# MEE1.3-1.3-36 - Blades **$89**
Excises 36 bands (1.3mm x 1.3mm), 10/bag

CAT# MEF8-8 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**


CAT# MEE1.3-1.3-36

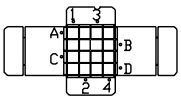
CAT# MEE1-1-64 - Blades **$89**
Excises 64 bands (1.0mm x 1.0mm), 10/bag

CAT# MEF8-8 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**


CAT# MEE1-1-64

CAT# MEE2-2-16 - Blades **$89**
Excises 16 bands (2.0mm x 2.0mm), 10/bag

CAT# MEF8-8 - Mount & Pick **$158**
CAT# MEK-4 - Pick **$18**


CAT# MEE2-2-16

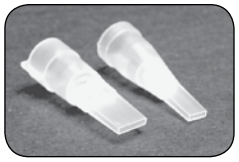
PowerPicker
Re-usable gel band remover

PowerPicker 1D band remover, based on an electropassivated surgical grade stainless steel cutter, for removal of 1D bands from acrylamide and agarose gels. The cutter is 5.0mm x 1.5mm, roughly the size of a band in a 1D gel lane. Please contact us directly for alternate sizes.

- Thin ramped edge for clean, efficient gel band removal
- Comfortable push grip

CAT# PDB5.0 - 5.0mm **$164**

ProCatcher
Disposable gel excision tips



Designed for quickly removing bands from agarose gels, ProCatcher uses a rectangular band shaped disposable tip which eliminates cross contamination between samples. No more unsafe razor blades, which require multiple steps, lead to variable results and are slow and tedious. ProCatcher is a safe and efficient one handed operation, with a push button gel and tip release, providing researchers with uniform extractions.

ProCatcher Tips
250 individual tips per bag

CAT# PR04.0 - 1.0mm x 4.0mm **$73**
CAT# PR06.5 - 1.0mm x 6.5mm **$73**

ProCatcher Tips - Pre-racked
5 racks of 48 tips

CAT# PR04.0-R - 1.0mm x 4.0mm **$163**
CAT# PR06.5-R - 1.0mm x 6.5mm **$163**

NEON PIPETTE
Tips fit our neon blue pipette
CAT# QDLP1000 **$116**

OneTouch
Re-usable gel spot picker

This new patent pending spot picker is designed to effortlessly excise bands from 2D gels and dispense them into microtitre plates or tubes. No more scalpels or blades and no more gel cutting! Simply find the band you want, press down and the band will be cleanly removed from the gel.

- One motion removes spot
- Push button gel release
- Ergonomic and time saving
- Available in 1.5mm and 3.0 Diameters
- For removal from polyacrylamide and 6mm agarose gels

CAT# P2D1.5 - 1.5mm **$164**
CAT# P2D3.0 - 3.0mm **$164**

OneTouch Plus
Disposable gel spot picker

OneTouch Plus (patented) spot picker excises bands from polyacrylamide or agarose gels and dispenses them into microtitre plates or tubes in one motion. The advantage of OneTouch Plus is it uses disposable tips to avoid cross contamination between samples. Tips (TSP) come in 10 racks of 96 tips.

- For removal from 0.75mm, 1.0mm, 1.5mm polyacrylamide and 6mm agarose gels
- No more slicing with scalpels or blades
- Push button gel release
- Ergonomic and time saving
- Available in 1.5mm and 3.0 Diameters

OneTouch Plus

CAT# PDM1.5 - 1.5mm **$222**
CAT# PDM3.0 - 3.0mm **$222**

OneTouch Plus Tips
10 racks of 96 tips

CAT# TSP1.5 - 1.5mm **$84**
CAT# TSP3.0 - 3.0mm **$159**

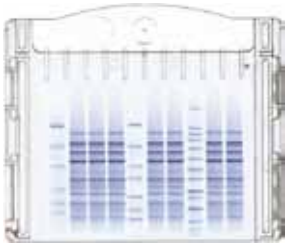
G-Tubes
Low protein binding microtubes for in-gel digestion

CAT# LPB65-100 **$18**
100/pk - 0.65ml

CAT# LPBT65-50 **$29**
50/pk - 0.65ml, individually wrapped

Tris-Glycine Precast Gels

For mini-gel systems



Tris-Glycine precast gels allow the separated protein bands to be visualized by illuminating the gel on a standard UV transilluminator or in a gel-doc system.

The amino acid tryptophan is naturally fluorescent, but not in the visible spectrum. However, using Tris-Glycine precast gels, the fluorescent is shifted to the visible blue spectrum with excitation by UV light. This gives similar visualization to other staining methods.

$117 pack of 10	% Acrylamide	10 Well, 50 µL CAT #	12 Well, 30 µL CAT #	17 Well, 20 µL CAT #
Life Technologies™ XCell SureLock™ Tank 10 x 10 cm	8%	PGN08-10	PGN08-12	PGN08-17
	10%	PGN10-10	PGN10-12	PGN10-17
	12%	PGN12-10	PGN12-12	PGN12-17
	8-16%	PGN816-10	PGN816-12	PGN816-17
	4-20%	PGN420-10	PGN420-12	PGN420-17

$117 pack of 10	% Acrylamide	10 Well, 50 µL CAT #	12 Well, 30 µL CAT #	17 Well, 20 µL CAT #
Bio-Rad® Mini-Protean® Tank 10 x 8.5 cm	8%	PGB08-10	PGB08-12	PGB08-17
	10%	PGB10-10	PGB10-12	PGB10-17
	12%	PGB12-10	PGB12-12	PGB12-17
	8-16%	PGB816-10	PGB816-12	PGB816-17
	4-20%	PGB420-10	PGB420-12	PGB420-17

Flash Plus Protein Ladder, Prestained

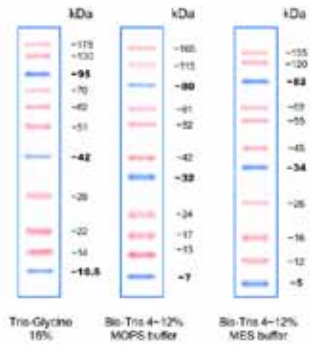
Flash Plus Protein Ladder contains prestained proteins that resolve into sharp, tight bands in the range of 10-175 kDa. Flash Plus Protein Ladder allows you to monitor molecular weight separation during electrophoresis, estimate molecular weights of proteins of interest and evaluate western transfer efficiency.

10-175 kDa

11 prestained proteins that resolve into sharp, tight bands in the range of 10-175 kDa.

Flash Plus Protein Ladder

CAT# FPL-005
200 lanes, 2 x 250 µl
$99



Flash Protein Ladder, Prestained

A three-color protein standard with prestained proteins covering a wide range of molecular weights. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-glycine buffer).

Designed for monitoring protein separated during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximate sizing of proteins.

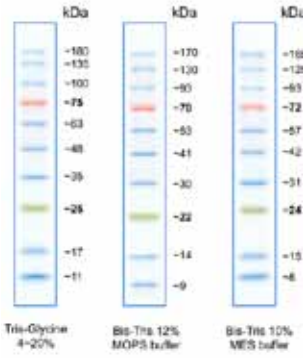
The ladder is supplied in gel loading buffer and ready to use. Do not heat, dilute, add reducing agent before loading.

10-180 kDa

10 prestained proteins covering a wide range of molecular weights from 10 to 180 kDa.

Flash Protein Ladder

CAT# FPL-006
200 lanes, 500 µl
$99

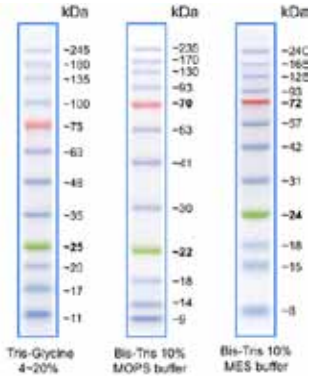


10-245 kDa

12 prestained proteins covering a wide range of molecular weights from 10 to 245 kDa.

Flash Protein Ladder

CAT# FPL-007
200 lanes, 500 µl
$99



3.5-245 kDa

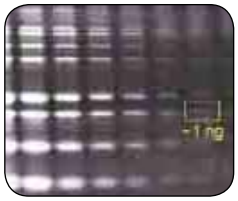
13 prestained proteins covering a wide range of molecular weights from 3.5 to 245 kDa.

Flash Protein Ladder

CAT# FPL-008
200 lanes, 500 µl
$99

ProteinGOLD

Fluorescent total protein stain



ProteinGOLD is a fast and sensitive fluorescent dye for visualization and quantitation of proteins separated by 1-D or 2-D SDS-PAGE. It comes as a 100x stock solution that is simply diluted with water.

ProteinGOLD is normally low fluorescent but emits a strong bright golden color as bound to proteins. The staining procedure is a simple two-step protocol that can be completed in as little as 30 minutes. Gels stained with ProteinGOLD fluorescent gel stain may be directly visualized with a variety of different UV-based fluorescence imaging systems. The maximum emission wavelength of protein-bound ProteinGOLD is near 570 nm. The bound ProteinGOLD dye is easily removed from the protein by immersing the gel in sufficient water, thus it is well compatible with subsequent enzymatic digestion and mass spectrometry for proteomics applications.

CAT# PG-0010 - 10 ml **$159**

LavaPurple™

Fluorescent protein stain

LavaPurple™ is based on a fluorophore called Epicocconone that provides a fundamentally new approach to protein quantification. Epicocconone is a water soluble, low molecular weight fluorophore produced by the fungus *Epicoccum nigrum*. Epicocconone reacts with lysine residues resulting in a shift in fluorescence from green to an intense red.

Binding is reversible allowing downstream applications such as Mass Spectrometry, N-terminal Sequencing, HPLC and other functional assays to be performed. It is a natural product, thus it is biodegradable, enabling convenient, environmentally friendly disposal.

Benefits

- Linear quantitation over 4 orders of magnitude
- Compatible with MS, DIGE labelling
- Environmentally friendly and easy to use

CAT# LP012005 - 5 mL **$143**
CAT# LP012025 - 25 mL **$445**
CAT# LP012100 - 100 mL **$1049**

Blotting Paper

For western gel transfer from mini gels

Thick filter paper used for western blotting of mini-gels in transfer cassettes. This material is free of contaminants. Custom sizes available.

CAT# BBS50 - 7.5x10cm, 50 sheets **$31**
CAT# BBS1510-50 - 15x10cm, 50 sheets **$41**

Cellophane Sheets

Precut porous cellophane sheets for drying gels

CAT# EJA331-050 - 30x30cm, 50 sheets **$31**
CAT# EJA331-100 - 30x30cm, 100 sheets **$47**
CAT# EJA345-050 - 35x45cm, 50 sheets **$36**
CAT# EJA345-100 - 35x45cm, 100 sheets **$57**

WesternBright ECL

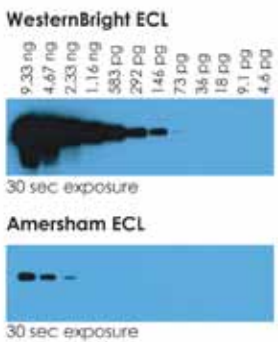
Chemiluminescent Western blot

WesternBright ECL is a horseradish peroxidase substrate optimized for chemiluminescent western blots imaged using X-ray film.

WesternBright ECL requires as little as ten times less antibody than other substrates, allowing you to save precious antibodies and samples. Additionally, the WesternBright ECL signal is long lasting, allowing multiple exposures to be carried out without substantial signal decay.

Kit includes: WesternBright ECL Luminol/enhancer solution and WesternBright Peroxide Chemiluminescent peroxide solution. 200ml, good for 25 mini blots.

CAT# WBF25 **$184**



WesternBright ECL produces a strong signal resulting in greater sensitivity with much shorter exposure times. Duplicate blots containing serial dilutions of transferrin protein were detected using WesternBright ECL or Amersham ECL according to the manufacturers' instructions, and the blots were exposed to the same piece of film. More bands can be detected with a 30 sec. exposure of the WesternBright ECL blot.

Microwestern Array is a powerful western blotting technique offering massive parallel quantification of sample protein abundance, similar to an array of hundreds of mini western blots. This method, developed by the Richard Jones Lab at the University of Chicago, is useful for measuring multiple data points, such as monitoring the effects of cell stimulation over time.

References:
Article: **Systems analysis of EGF receptor signaling dynamics with microwestern arrays**
Mark F Ciaccio, Joel P Wagner, Chih-Pin Chuu, Douglas A Lauffenburger, & Richard B Jones
Nature Methods, Published online: 24 January 2010 | doi:10.1038/nmeth.1418

ArrayMix
Array hybridization instrument

The ArrayMix can hold 1-4 microscope slides contained within 16-24 well sectioning chambers (sold seperately) for a total of up to 96 arrays.

Each slide makes direct contact with a thermal block to maintain accurate temperature control from 15ºC - 90ºC, with a tolerance of 0.1ºC. Each of the three slides sits on an orbital shaker and orbit around a small radius at an adjustable speed, from a low of 300 revolutions per minute to a maximum of 900 revolutions per minute. The orbital shaking allows for use of low concentration or dilute targets in hybridization, which saves money when using expensive peptides or antibodies for array experiments.

Mixing during hybridization can also be an essential step for success in array experiment, as referenced by the following publications:

Kinetics of antigen binding to antibody microspots: strong limitation by mass transport to the surface. Kusnezow W, Syagailo YV, Rüffer S, Klenin K, Sebald W, Hoheisel JD, Gauer C, Goychuk I. Proteomics. 2006 Feb; 6(3):794-803.

Optimal design of microarray immunoassays to compensate for kinetic limitations: theory and experiment. Kusnezow W, Syagailo YV, Rüffer S, Baudenstiel N, Gauer C, Hoheisel JD, Wild D, Goychuk I. Mol Cell Proteomics. 2006 Sep; 5 (9): 1681-96.

High Volume ArraySlide 16-4 shown in picture.
CAT# AHS16-4-HV

After hybridizations, the ArraySlide chambers can be removed and separated for scanning or further processing of the microarray slides. Additional sectioning options are available. ArraySlide chambers are sold separately (see pages 40-42).

ArrayMix 48
Holds ArraySlide 16 (sold separately)
CAT# AM16-3 - Unit **$2115**

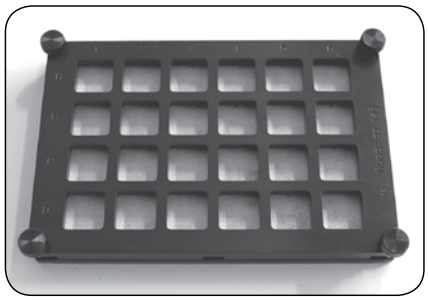
ArrayMix 64
Holds ArraySlide 16-4 (sold separately)
CAT# AM16-4 - Unit **$2115**

ArrayMix 96
Holds ArraySlide 24-4 (sold separately)
CAT# AM24-4 - Unit **$2115**

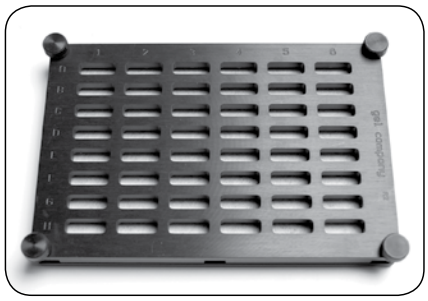
ArrayMix 96Plate
Holds ArrayPlate (sold separately)
CAT# AM96-P - Unit **$2115**

MWA Hybridization Unit

MWA hybridization unit, available in 24, 48 and 96 wells sections a western blot into 24-96 individual squares. Each square is isolated from its neighbors, eliminating any cross reactivity between sections. The top cover plate allows for large hybridization volumes, and has built in cut outs to hold the compression gasket which seals against the membrane underneath. Gridlines are printed on the bottom plate to assist with alignment of the blot to the chamber.



CAT# MWA100-24-1 - 24 Well Hybridization unit **$504**



CAT# MWA100-48-1 - 48 Well Hybridization unit **$504**

CAT# MWA100-96-1 - 96 Well Hybridization unit **$504**

LavaPep™

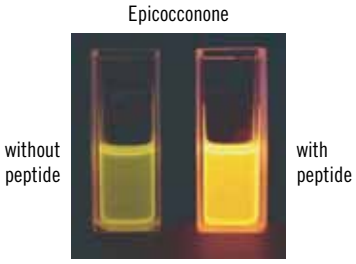
Protein and peptide quantification kit

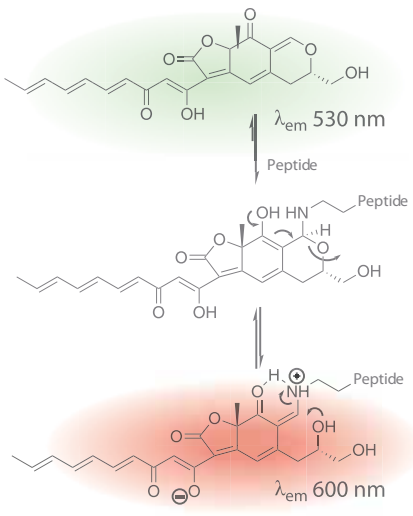
LavaPep™ is based on a flurophore called epicocconone that provides a fundamentally New approach to peptide quantification. Epicocconone reacts with lysine arginine and histidine residues resulting in a shift in fluorescence from green to an intense red. Binding is reversible allowing downstream applications such as Mass Spectrometry, N-terminal Sequencing, HPLC and other assays. Epicocconone is a natural product, this it is biodegradable, enabling convenient environmentally friendly disposal.

Benefits

- Sensitive, enabling as little as 100 ng/mL peptide to be quantified
- Wide linear dynamic range, over 3 orders of magnitude
- Wide range of convenient assay volumes; 100 µL - 3 mL
- Easy, quick and simple protocol, read data within 60 minutes
- Robust to DNA, Detergents, DTT, Urea, etc and is stable for up to 5 hours
- No heating and reduction steps
- Wide range of fluorescent measuring instruments can be used
- Peptides are not precipitated or denatured
- Compatible with downstream applications
- Fully biodegradable, enabling safe, economical disposal

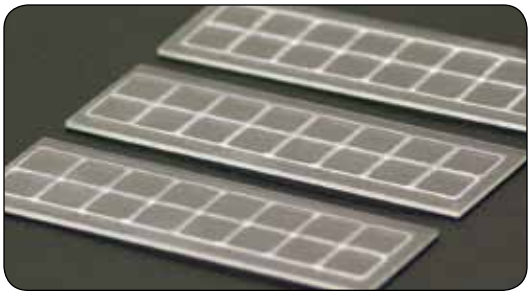
CAT# LP022010 - 2000 samples **$186**





SlideImprinter

Innovative slide formatting



The SlideImprinter is a much more effective and productive way to partition slides used in laboratory and microarray analysis. This instrument is ideal for high throughput screening where multiple assays need to be run on a single examination slide with minimal risk of contamination between assays.

Traditionally, rubber gaskets (with or without adhesive), hydrophobic markers, or manufactured (teflon) barriers have been used to segregate slide areas. Gaskets without adhesive may not seal well. Gaskets with adhesive may also leak as the adhesive can be soluble in some solvents and interfere with the experiments. Gaskets also need to be removed before scanning which can cause the entire slide coating to peel. Hydrophobic markers (PAP pens) are very tedious and messy to apply, can be soluble in certain solvents, and the resulting slides are often irreproducible and inaccurate. Lastly, manufactured barriers are expensive and not flexible to design.

The SlideImprinter provides a convenient way to define multiple "wells" on a single microscope slide to create separated region for sampling. This is done through imprinting a thin, inert, hydrophobic film line onto the surface of a slide through the use of a designed "stamp".

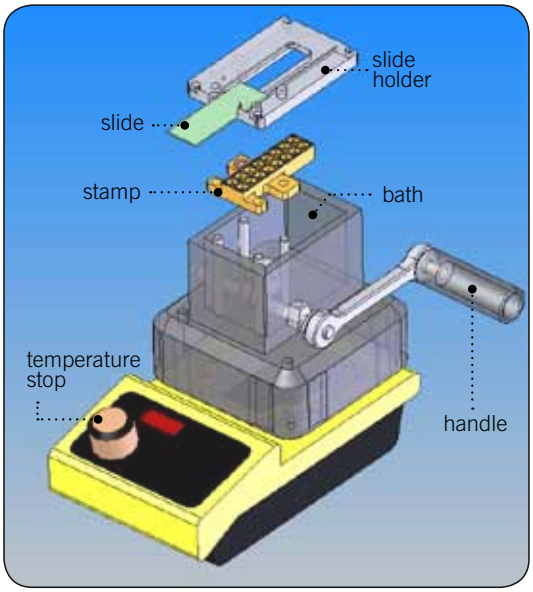
US Patent 11/288,588

- A convenient way to create multiple wells on a single microscope slide
- Enables the processing of multiple samples on each slide
- Many well designs available

How does SlideImprinter work?

The stamp is immersed in a bath. A slide is inserted into the slide holder above the bath. The stamp is lifted to meet the slide, imprinting barrier lines. Since the deposits are thin, the resulting slide with lines can be inserted directly into a slide scanner without any modifications. The coating, being highly hydrophobic, does not dissolve in most solvent systems, and will stay on the slide through multiple wash steps.

The SlideImprinter system offers flexibility in slide partition design, adhesion with any slide surface chemistry, and stability in most solvents through repeated washes. In addition, the hydrophobic boundaries are chemically inert and do not need to be removed prior to scanning.



SlideImprinter

CAT# WSP10-1 - 10 Wells	**$3343**
CAT# WSP12-1 - 12 Wells	**$3343**
CAT# WSP16-1 - 16 Wells	**$3343**
CAT# WSP48-1 - 48 Wells	**$3343**
CAT# WSP60-1 - 60 Wells	**$3343**
CAT# WSP192-1 - 192 Wells	**$3343**

Custom Design

CAT# CUST-1	**$3352**

Accessories for SlideImprinter

Replacement Stamps

CAT# WSP10-R - 10 Wells	**$647**
CAT# WSP12-R - 12 Wells	**$647**
CAT# WSP16-R - 16 Wells	**$647**
CAT# WSP48-R - 48 Wells	**$647**
CAT# WSP60-R - 60 Wells	**$647**
CAT# WSP192-R - 192 Wells	**$647**

Hydrophobic Wax - Low Temp.

CAT# HWAX	**$37**

DNA Wax - High Temp.

CAT# DWAX	**$37**

Test Slides

CAT# TSLD - 72/pkg	**$25**

HOEFER SE250, SE260 & MINI VE & SE280

Combs

CHS05-100	5 lane, 1.0mm thick	$31
CHS05-150	5 lane, 1.5mm thick	$31
CHS10-075	10 lane, 0.75mm thick	$31
CHS10-100	10 lane, 1.0mm thick	$31
CHS10-150	10 lane, 1.5mm thick	$31
CHS15-075	15 lane, 0.75mm thick	$31
CHS15-100	15 lane, 1.0mm thick	$31
CHS15-150	15 lane, 1.5mm thick	$31
CHS20-075	20 lane, 0.75mm thick	$31
CHS20-100	20 lane, 1.0mm thick	$31
CHS20-150	20 lane, 1.5mm thick	$31
CHSSR-150	single reference, 1.5mm thick	$31

SE250 - Plates

AHS0810-10	8.3x10.2cm notched alumina (10)	$105
AHS0810-5	8.3x10.2cm notched alumina (5)	$63
GHS0810-10	8.3x10.2cm outer glass (10)	$41
GHS0810-5	8.3x10.2cm outer glass plate (5)	$27

SE250 - Spacers

SHS08-075	8.8cm flat, 0.75mm thick	$20
SHS08-100	8.8cm flat, 1.0mm thick	$20
SHS08-150	8.8cm flat, 1.55mm thick	$20
SHS08T-075	8.8cm T-shaped, 0.75mm thick	$31
SHS08T-100	8.8cm T-shaped, 1.0mm thick	$31
SHS08T-150	8.8cm T-shaped, 1.50mm thick	$31

SE260 & miniVE - Plates

AHS1010-10	10.6x10.2cm notched alumina (10)	$105
AHS1010-5	10.6x10.2cm notched alumina (5)	$63
GHS1010-10	10.6x10.2cm outer glass (10)	$47
GHS1010-5	10.6x10.2cm outer glass (5)	$25

SE260 & miniVE - Spacers

SHS10-075	10.6cm flat, 0.75mm thick	$20
SHS10-100	10.6cm flat, 1.0mm thick	$20
SHS10-150	10.6cm flat, 1.5mm thick	$20
SHS10T-075	10.6cm T-shaped, 0.75mm thick	$31
SHS10T-100	10.6cm T-shaped, 1.0mm thick	$31
SHS10T-150	10.6cm T-shaped, 1.5mm thick	$31

HOEFER SE250, SE260 & MINI VE & SE280

SE280 - Plates

AHS1012-10	12x10.2cm notched alumina (10)	$121
AHS1012-5	12x10.2cm notched alumina (5)	$78
GHS1210-10	12x10.2cm outer glass (10)	$41
GHS1210-5	12x10.2cm outer glass (5)	$25

SE280 - Spacers

SHS12-075	12cm flat, 0.75mm thick	$20
SHS12-100	12cm flat, 1.0mm thick	$20
SHS12-150	12cm flat, 1.5mm thick	$20
SHS12T-075	12cm T-shaped, 0.75mm thick	$31
SHS12T-100	12cm T-shaped, 1.0mm thick	$31
SHS12T-150	12cm T-shaped, 1.5mm thick	$31

HOEFER SE400, SE600 & RUBY

Combs

CHL10-075	10 lane, 0.75mm thick	$47
CHL10-100	10 lane, 1.0mm thick	$47
CHL10-150	10 lane, 1.5mm thick	$47
CHL15-075	15 lane, 0.75mm thick	$47
CHL15-100	15 lane, 1.0mm thick	$47
CHL15-150	15 lane, 1.5mm thick	$47
CHL20-075	20 lane, 0.75mm thick	$47
CHL20-100	20 lane, 1.0mm thick	$47
CHL20-150	20 lane, 1.5mm thick	$47
CHL25-075	25 lane, 0.75mm thick	$47
CHL25-100	25 lane, 1.0mm thick	$47
CHL25-150	25 lane, 1.5mm thick	$47
CHL29-075	29 lane, 0.75mm thick	$47
CHL29-100	29 lane, 1.0mm thick	$47
CHL29-150	29 lane, 1.5mm thick	$47
CHLDR-150	dual reference, 1.5mm thick	$47

Plates

GHL1816N-2	18x16cm, notched divider (2)	$174
GHL1816N-5	18x16cm, notched divider (5)	$396
GHL1816-2	18x16cm rectangular (2)	$31
GHL1816-5	18x16cm rectangular (5)	$57

Plates *Optically Clear for Laser or Fluorescent Scanners*

GHO1816-2	18x16cm rectangular (2)	$63
GHO1816-5	18x16cm rectangular (5)	$142

Spacers

SHL16-075	16cm, 0.75mm thick	$36
SHL16-100	16cm, 1.0mm thick	$36
SHL16-150	16cm, 1.5mm thick	$36
SHL24-100	24cm, 1.0mm thick	$36
SHL24-150	24cm, 1.5mm thick	$36

BIO-RAD® MINI PROTEAN® II

Combs

CBS05-075	5 lanes, 0.75mm thick	$25
CBS05-100	5 lanes, 1.0mm thick	$25
CBS05-150	5 lanes, 1.5mm thick	$25
CBS10-075	10 lanes, 0.75mm thick	$25
CBS10-100	10 lanes, 1.0mm thick	$25
CBS10-150	10 lanes, 1.5mm thick	$25
CBS12-075	12 lanes, 0.75mm thick	$25
CBS12-100	12 lanes, 1.0mm thick	$25
CBS12-150	12 lanes, 1.5mm thick	$25
CBS15-075	15 lanes, 0.75mm thick	$25
CBS15-100	15 lanes, 1.0mm thick	$25
CBS15-150	15 lanes, 1.5mm thick	$25
CBS20-075	20 lanes, 0.75mm thick	$25
CBS20-100	20 lanes, 1.0mm thick	$25
CBS20-150	20 lanes, 1.5mm thick	$25
CBSDR-150	dual reference, 1.5mm thick	$25
CBSSR-075	single reference, 0.75mm thick	$25
CBSSR-100	single reference, 1.0mm thick	$25
CBSSR-150	single reference, 1.5mm thick	$25

Plates

GBS07B-10S	inner & outer, 10 sets	$63
GBS07B-5S	inner & outer, 5 sets	$36
GBS07L-10	8.3x10.2cm outer (10)	$36
GBS07L-5	8.3x10.2cm outer (5)	$20
GBS07S-10	7.3x10.2cm inner (10)	$36
GBS07S-5	7.3x10.2cm inner (5)	$20
GBS07SF-5	7.3x10.2cm inner, frosted (5)	$80

Spacers

SBS08-075	8cm, 0.75mm thick	$15
SBS08-100	8cm, 1.0mm thick	$15
SBS08-150	8cm, 1.5mm thick	$15

BIO-RAD® MINI PROTEAN® III

Combs

CBU05-075	5 lanes, 0.75mm thick	$15
CBU05-100	5 lanes, 1.0mm thick	$15
CBU05-150	5 lanes, 1.5mm thick	$15
CBU09-075	9 lanes, 0.75mm thick	$15
CBU09-100	9 lanes, 1.0mm thick	$15
CBU09-150	9 lanes, 1.5mm thick	$15
CBU10-075	10 lanes, 0.75mm thick	$15
CBU10-100	10 lanes, 1.0mm thick	$15
CBU10-150	10 lanes, 1.5mm thick	$15

BIO-RAD® MINI PROTEAN® III

Combs *continued*

CBU15-075	15 lanes, 0.75mm thick	$15
CBU15-100	15 lanes, 1.0mm thick	$15
CBU15-150	15 lanes, 1.5mm thick	$15
CBUIPG-100	IPG, 1.0mm thick	$15
CBUIPG-150	IPG, 1.5mm thick	$15
CBUSR-075	Single Reference, 0.75mm thick	$15
CBUSR-100	Single Reference, 1.0mm thick	$15
CBUSR-150	Single Reference, 1.5mm thick	$15

Plates

GBU050-5	plate, 0.5mm spacer attached (5)	$36
GBU075-5	plate, 0.75mm spacer attached (5)	$36
GBU100-5	plate, 1.0mm spacer attached (5)	$36
GBU150-5	plate, 1.5mm spacer attached (5)	$36
GBU3S-5	short plate, (5)	$14

BIO-RAD® PROTEAN® II

Combs

CBL10-075	10 lane, 0.75mm thick	$36
CBL10-100	10 lane, 1.0mm thick	$36
CBL10-150	10 lane, 1.5mm thick	$36
CBL15-075	15 lane, 0.75mm thick	$36
CBL15-100	15 lane, 1.0mm thick	$36
CBL15-150	15 lane, 1.5mm thick	$36
CBL18-075	18 lane, 0.75mm thick	$36
CBL18-100	18 lane, 1.0mm thick	$36
CBL18-150	18 lane, 1.5mm thick	$36
CBL20-075	20 lane, 0.75mm thick	$36
CBL20-100	20 lane, 1.0mm thick	$36
CBL20-150	20 lane, 1.5mm thick	$36
CBL25-075	25 lane, 0.75mm thick	$36
CBL25-100	25 lane, 1.0mm thick	$36
CBL25-150	25 lane, 1.5mm thick	$36
CBL30-075	30 lane, 0.75mm thick	$36
CBL30-100	30 lane, 1.0mm thick	$36
CBL30-150	30 lane, 1.5mm thick	$36
CBLDR-075	dual reference, 0.75mm thick	$36
CBLDR-100	dual reference, 1.0mm thick	$36
CBLDR-150	dual reference, 1.5mm thick	$36
CBLSR-075	single reference, 0.75mm thick	$36
CBLSR-100	single reference, 1.0mm thick	$36
CBLSR-150	single reference, 1.5mm thick	$36
CBXLSR-100	single reference, 2D for ProteanXL, 1.0mm thick	$36

BIO-RAD® PROTEAN® II

Plates

GBL16B-2S	16cm cell, inner & outer, 2 sets	$41
GBL16B-5S	16cm cell, inner & outer, 5 sets	$78
GBL16L-2	16cm cell, 18.3x20cm outer (2)	$25
GBL16L-5	16cm cell, 18.3x20cm outer (5)	$47
GBL16S-2	16cm cell, 16x20cm inner (2)	$25
GBL16S-5	16cm cell, 16x20cm inner (5)	$47
GBL20B-2S	20cm cell, inner & outer, 2 sets	$41
GBL20B-5S	20cm cell, inner & outer, 5 sets	$78
GBL20L-2	20cm cell, 22.3x20cm outer (2)	$25
GBL20L-5	20cm cell, 22.3x20cm outer (5)	$41
GBL20S-2	20cm cell, 20x20cm inner (2)	$25
GBL20S-5	20cm cell, 20x20cm inner (5)	$41

Plates *Optically Clear for Laser or Fluorescent Scanners*

GBO16B-1S	16cm cell, inner & outer, 1 set	$84
GBO20B-1S	20cm cell, inner & outer, 1 set	$110

Spacers

SBL16-075	18.3cm, 0.75mm thick, 1 set	$25
SBL16-100	18.3cm, 1.0mm thick, 1 set	$25
SBL16-150	18.3cm, 1.5mm thick, 1 set	$25
SBL20-075	22.3cm, 0.75mm thick, 1 set	$25
SBL20-100	22.3cm, 1.0mm thick, 1 set	$25
SBL20-150	22.3cm, 1.5mm thick, 1 set	$25
SBXL20-100N	22.3cm spacer, IPG strip format, 0.8cm wide for XI to XL conversion, 1.0mm thick, 1 set	$31

PROTEAN® PLUS DODECA™

Low Fluorescent Cassettes
For 2D gels

- Precision cut glass
- Bonded glass spacers
- Available with or without durable silicone hinge
- Available in 1.0mm and 1.5mm spacer thickness

Cassette

GBD2020-100	hinged, 20 x 20.5cm, 1.0mm	$63
GBD2020-150	hinged, 20 x 20.5cm, 1.5mm	$63
GBD2520-100	hinged, 25 x 20.5cm, 1.0mm	$63
GBD2520-150	hinged, 25 x 20.5cm, 1.5mm	$63

Optically Clear Cassette

GBN2020-100	no hinge, 20 x 20.5cm, 1.0mm	$99
GBN2020-150	no hinge, 20 x 20.5cm, 1.5mm	$99
GBN2520-100	no hinge, 25 x 20.5cm, 1.0mm	$99
GBN2520-150	no hinge, 25 x 20.5cm, 1.5mm	$99

NEW Accessories for BIO-RAD®

Mini Trans-Blot Fiber Pads
Mini Trans-Blot Fiber Pads for Mini Trans-Blot® Cell, Black, 8cm x 11cm, 4 Fiber Pads/pkg

CAT# FSB100-4 **$25**

Clamp Assembly
Clamp Assembly, casts 1 gel for Mini-PRTOEAN® II. Includes 4 black screws, 2 white screws, 2 clamps, 1 back plate.

CAT# HSB-1 **$97**

Replacement Foam Casting Gaskets
Replacement Foam Gaskets for Mini-PRTOEAN® II. 11.4 x 1.75cm, 2/pk

CAT# KBR100-2 - Red **$27**
CAT# KBG100-2 - Gray **$27**

GE HEALTHCARE

Low Fluorescent Cassettes
For 2D gels, compatible with Amersham® DALT

- Precision cut glass
- Bonded sticky spacers
- Available with or without durable silicone hinge
- Available in 1.0mm, 1.5mm spacer thickness

Ettan DALT Cassette

GHT2620-100	hinged, 1.0mm	$142
GHT2620-150	hinged, 1.5mm	$142

Optically Clear Ettan DALT Cassette

GHY2620-100	no hinge, 1.0mm	$110
GHY2620-150	no hinge, 1.5mm	$110

Ettan DALT Precast Gel Holding Cassette

GEP2620-100
hinged, 1.0mm $273

Ettan DALT Filler Sheets

EDF06	1.0mm, 6 units	$51

Ettan DALT Separator Sheets

EDF16	0.5mm, 16 units	$143

Ettan Dalt Single Reference Well Comb
for second dimension gels

CHDSR-100	1.0mm thick	$52

DNAmite® Extraction Kits

DNAmite is our method for extracting large amounts of high purity DNA. We have kits to extract DNA from animal tissue, plant leaves/petals/seeds, nematodes and bacteria. DNAmite is quicker than spin-column methods and uses fewer steps. It doesn't use ethanol, phenol, chloroform or isopropanol, so it's safer for you and the environment.

Protocol on page 46

DNAmite Bacterial Kit - 100 preps
CAT# 2BPK-100 **$225**

DNAmite Plant Kit - 100 preps
CAT# 2PLK-100 **$225**

DNAmite Tissue Kit - 100 preps
CAT# 2TK-100 **$225**

DNAmite® DIRECT

DNAmite DIRECT is a new formulation designed to generate PCR-ready DNA from larger volume samples. Like our other DNA release and extraction products, the emphasis is on speed and ease of use. This kit has been used on meat, fish and feather samples, generating high quality DNA even suitable for qPCR. Contact us for specific protocols.

Protocol on page 47

CAT# 2DD-50 - 50 preps **$136**
CAT# 2DD-100 - 100 preps **$260**

microLYSIS®-PLUS
for PCR ready DNA

microLYSIS®-PLUS will help you get DNA from even the most difficult sources. It can lyse the toughest bacterial cells and spores as well as yeasts, fungi, moulds, some plant and some animal tissues directly. Mix cells with this more complex lysis solution and thermocycle to release DNA.

Unlike DNA released with bead-beating systems, DNA released using microLYSIS-PLUS is intact. Also available as a 5x concentration.

- Extremely rapid one tube, one reagent method
- Suitable for standard and Real-Time PCR

Protocol on page 48

CAT# 2MLP-100 - 100 preps **$135**
CAT# 2MLP-250 - 250 preps **$315**
CAT# 2MLP-1000 - 1000 preps **$1138**

microLYSIS®-STANDARD
for PCR ready DNA

microLYSIS® is optimized to lyse the cells most commonly used in the lab. This includes bacterial (e.g. E. coli), yeast (e.g. S. cerevisiae) and human cells (e.g. HeLa). It enables you to produce PCR-ready DNA (including plasmid) in less than 15 minutes. Mix the cells with the microLYSIS solution and thermocycle.

The DNA can either be used directly or stored at -20°C for the future. Also available as a 20x concentration.

Protocol on page 48

CAT# 2ML-100 - 100 preps **$135**
CAT# 2ML-250 - 250 preps **$315**
CAT# 2ML-1000 - 1000 preps **$1138**

UltraPure Proteinase K

Proteinase K is a nonspecific serine protease that is active in the presence of SDS or urea and over a wide range of pH, salt concentrations and temperatures. This preparation is made at a concentration of 20 mg/ml in a storage buffer of 50 mM Tris, pH 8, 3 mM CaCl2, 50% Glycerol.

CAT# UPK20-125 - 1 x 1.25mls **$48**

MegaMix

A ready-to-use master mix containing recombinant *Taq* polymerase. A typical 50 µl MegaMix reaction has a final concentration of 2.5 mM MgCl2 and contains 1 unit of *Taq* along with all the other fixed components needed – high purity dNTPs, reaction buffer and a superb enzyme stabilizer.

MegaMix

CAT# 2MM-05 - 5 x 1 ml $107
CAT# 2MM-25 - 25 x 1 ml $504

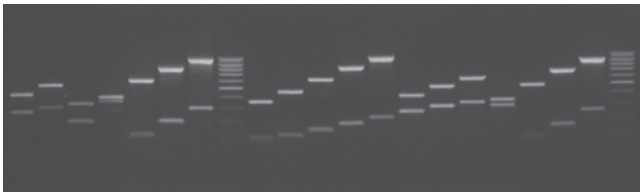
MegaMix-Double

CAT# 2MM-05 - 5 x 0.5 ml $107
CAT# 2MM-25 - 25 x 0.5 ml $504

MegaMix-Blue

This has all the advantages of MegaMix but also incorporates a blue dye, allowing easy visualization and eliminating the need for additional gel loading buffers. The dye does not inhibit restriction enzymes or ligases and does not fluoresce at the wavelengths used by automated DNA sequencers. Therefore it doesn't interfere with the usefulness of the PCR – just makes it more convenient to use.

CAT# 2MMB-05 - 5 x 1 ml $125
CAT# 2MMB-25 - 25 x 1 ml $553



MegaMix-Gold

The first of our elite mixes, MegaMix-Gold is designed to help you succeed with even the most challenging PCR systems. It is supplied double concentrated and contains a mixture of Taq polymerase and monoclonal anti-Taq polymerase antibodies. An initial step of 5 minutes at 95°C denatures the antibodies, thus activating the Taq. Since the Taq is completely inactive at room temperature, samples do not need to be set-up on ice.

CAT# 2MMG-05 - 5 x 1 ml $389
CAT# 2MMG-10 - 10 x 1 ml $763

MegaMix-Gold with ROX

MegaMix-Gold is also available with ROX dye. These mixes are for machines which require ROX as a reference.

CAT# 2RMMG-05 - 5 x 1 ml $382
CAT# 2RMMG-10 - 10 x 1 ml $727

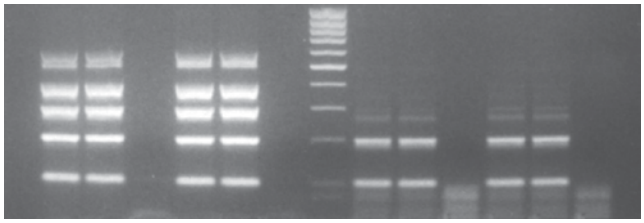
All MegaMIx protocols on pages 47-48

MegaMix-Royal

Hot start TAQ PCR mix

Our second elite mix, MegaMix-Royal is a recalibration of MegaMix-Gold formulated to give you a second option. For convenience the same blue dye used with MegaMix-Blue is incorporated so you can load agarose gels straight away. It is supplied double concentrated and uses the same Hot-Start technology as MegaMix-Gold which offers highly consistent results even with challenging PCR systems.

CAT# 2MMR-05 - 5 x 1 ml $389
CAT# 2MMR-10 - 10 x 1 ml $763



Pentaplex PCRs with Microzone's DNAOK! kit using MegaMix~Royal as the PCR mix on the left hand side and MegaMix~Blue on the right hand side.

Frequently Asked Questions

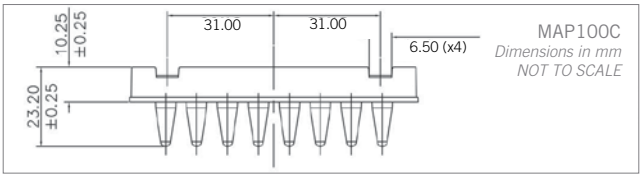
Q. What kind of polymerases are in the MegaMixes?
A. MegaMix and MegaMix-Blue contain a proprietary formula of non-hot-start Taq DNA polymerases. MegaMix-Gold and MegaMix-Royal contain a proprietary formula of hot-start Taq DNA polymerases.

Q. What is the maximum fragment length the MegaMixes will amplify?
A. The MegaMixes are highly efficient at amplifying DNA fragments up to 2 kb but depending on the specificity and efficiency of the primer they can amplify up to 3 kb.

Q. How long are the MegaMixes stable at -20°C?
A. These products are very stable and it can be frozen and thawed many times. The MegaMixes have a three year expiry date - but will be stable for much longer in the freezer.

Q. Are the MegaMixes compatible with restriction enzymes?
A. The activity of any restriction enzyme is dependent on salt concentration, magnesium concentration and pH. It varies as to how forgiving each restriction enzyme is to these factors and we cannot guarantee that a particular restriction enzyme will work in the MegaMix buffers.

We suggest that if your sample quality is limited that you use **microCLEAN** to purify the DNA and then perform restriction digest with the recommended buffer and conditions supplied with the enzyme. Alternatively, if you have ample sample quality, then by all means try the restriction digest in one of the MegaMixes.



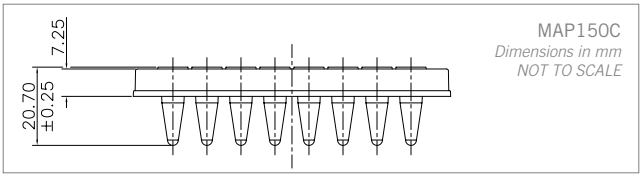
MAP100C
Dimensions in mm
NOT TO SCALE

96 well Detection Plate, Raised Deck, Semi-Skirted

- Can be used directly in ABI 96-well sequencers
- 0.3ml max well volume (with adhesive and heat seals)

PCR CYCLER COMPATIBILITY TABLE	
PCR	**QPCR**
ABI – *Verite 0.2ml 96-well Block, GeneAmp® 2700/2720, 9600, 9700*	**ABI** – *7000, 7300, 7500, 7700, 7900, 7900HT*
Biometra – *T1 ThermoCycler, TGradient*	–
Eppendorf – *MasterCycler® EP Gradient*	**Eppendorf** – *Mastercycler®, EP Realplex*
–	**Stratagene** – *Mx4000®*

CAT# MAP100C - 25 units, clear **$80**



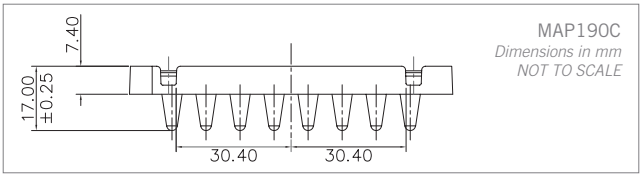
MAP150C
Dimensions in mm
NOT TO SCALE

96 well Flat Deck, Semi-Skirted

- Can be used directly in ABI 96-well sequencers
- 0.3ml max well volume (with adhesive and heat seals)

PCR CYCLER COMPATIBILITY TABLE	
PCR	**QPCR**
ABI – *Verite 0.2ml 96-well Block, GeneAmp® 2700/2720, 9600, 9700*	**ABI** – *7000, 7300, 7500, 7700, 7900, 7900HT*
Biometra – *T1 ThermoCycler, TGradient*	–
Bio-Rad – *iCycler™, MyCycler, C1000, S1000*	**Bio-Rad** – *iCycler™, iQ™4, iQ™5, MyiQ™*
Eppendorf – *MasterCycler® EP Gradient*	**Eppendorf** – *Mastercycler®, EP Realplex*
MJ Research – *PTC-200 DNA Engine™, PTC-220/221 DNA Dyad™, PTC-225 DNA Tetrad™, PTC-100™ w/96-well Block*	–
–	**Stratagene** – *Mx4000®*

CAT# MAP150C - 25 units, clear **$80**
CAT# MAP150BC - 25 units, bar coded, clear **$92**



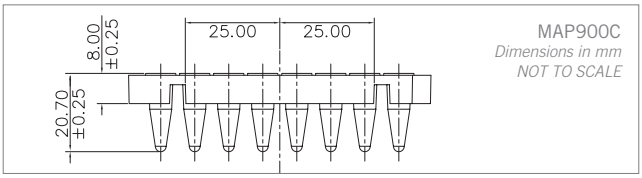
MAP190C
Dimensions in mm
NOT TO SCALE

96 well Fast Plate, Semi-Skirted

- Directly compatible with all ABI thermal cycler fast blocks
- 0.1ml max well volume (with adhesive and heat seals)

PCR CYCLER COMPATIBILITY TABLE	
PCR	**QPCR**
ABI – *Verite 0.1ml 96-well Block, GeneAmp® 9600 FAST Block*	**ABI** – *Fast 7500, 7900, 7900HT, StepOne Plus™*
–	**Eppendorf** – *Mastercycler® EP Realplex*

CAT# MAP190C - 25 units, clear **$80**

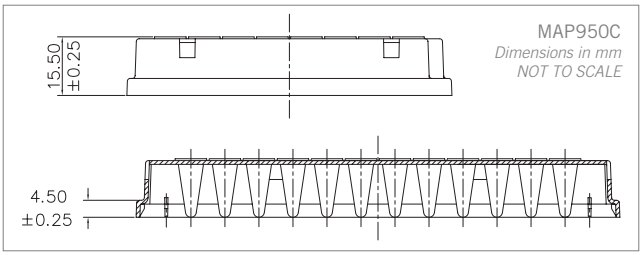


96 well Segmented Plate, Semi-Skirted

- Patented segmented design allows plate to be cut into 24 & 48 well sections
- 0.3ml max well volume (with adhesive and heat seals)

PCR CYCLER COMPATIBILITY TABLE	
PCR	**QPCR**
ABI – *GeneAmp® 2700/2720, 9600, 9700*	–
Biometra – *Uno, Uno II, T1 Thermo-Cycler, TGradient, TRobot*	–
Bio-Rad – *iCycler™, MyCycler, C1000, S1000*	**Bio-Rad** – *iCycler™, iQ™4, iQ™5, MyiQ™*
Eppendorf – *MasterCycler® Gradient, MasterCycler® EP Gradient*	**Eppendorf** – *Mastercycler® EP Realplex*
MJ Research – *PTC-200 DNA Engine™, PTC-220/221 DNA Dyad™, PTC-225 DNA Tetrad™, PTC-100™ w/96-well Block*	–
Stratagene – *Gradient Cycler*	**Stratagene** – *Mx4000®, Mx3000P®, Mx3005P™*

CAT# MAP900C - 25 units, clear **$80**



96 well Low Profile Plate, Skirted

- SBS footprint and stackable for use in automated systems
- 0.2ml max well volume (with adhesive and heat seals)

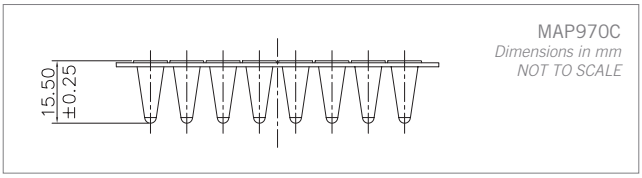
PCR	QPCR
Biometra – *Uno, T1 ThermoCycler, TGradient, TRobot*	–
Bio-Rad – *C1000, S1000*	**Bio-Rad** – *CFX96*
Eppendorf – *MasterCycler® Gradient, MasterCycler® EP Gradient*	**Eppendorf** – *Mastercycler® EP Realplex*
MJ Research – *PTC-200 DNA Engine™, PTC-220/221 DNA Dyad™, PTC-225 DNA Tetrad™, PTC-100™ w/96-well Block*	**MJ Research** – *Opticon™, Opticon 2™, Chromo4™*
Stratagene – *Gradient Cycler*	–

CAT# MAP950C - 25 units, clear **$80**

Color Plates & Bar Coding

Available colors: Red (R), Yellow (Y), Green (G), Blue (B), Purple (P), White (W), Black (K)
To indicate COLOR, add first letter of color after the CAT#. ie: *MAP100P is for a purple plate*

BAR CODING available, upon request, for an additional fee. Not available for black plates.



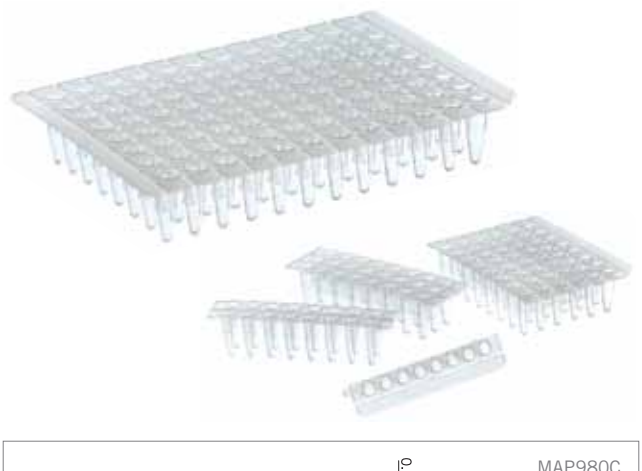
MAP970C
Dimensions in mm
NOT TO SCALE

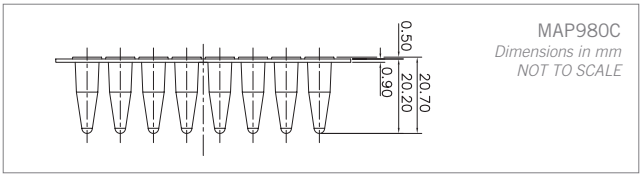
96 well Low Profile Plate, Non-Skirted

- 0.2ml max well volume (with adhesive and heat seals)

PCR	QPCR
Biometra – *Uno, Uno II, T1 ThermoCycler, TGradient, TRobot*	–
Bio-Rad – *C1000, S1000*	**Bio-Rad** – *CFX96*
Eppendorf – *MasterCycler® Gradient, MasterCycler® EP Gradient*	**Eppendorf** – *Mastercycler® EP Realplex*
MJ Research – *PTC-200 DNA Engine™, PTC-220/221 DNA Dyad™, PTC-225 DNA Tetrad™, PTC-100™ w/96-well Block*	**MJ Research** – *Opticon™, Opticon 2™, Chromo4™*
–	**Stratagene** – *Mx4000®, Mx3000P®, Mx3005P™*

CAT# MAP970C - 25 units, clear **$85**





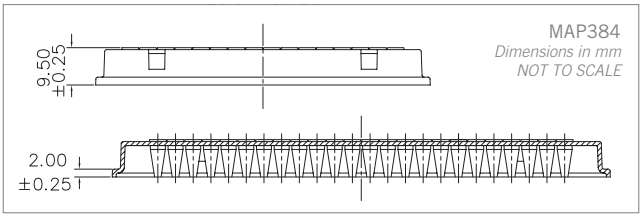
MAP980C
Dimensions in mm
NOT TO SCALE

96 well Break Away Plate, Non-Skirted

- Can be sectioned into 8 well strips
- 0.2ml max well volume (with adhesive and heat seals)

PCR	QPCR
ABI – *GeneAmp® 2700/2720, 9600, 9700*	**ABI** – *7000, 7300, 7500, 7700, 7900*
Biometra – *Uno, Uno II, T1 Thermo-Cycler, TGradient, TRobot*	–
Bio-Rad – iCycler™, MyCycler, *C1000, S1000*	**Bio-Rad** – *iCycler™, iQ™4, iQ™5, MyiQ™*
Eppendorf – *MasterCycler® Gradient, MasterCycler® EP Gradient*	**Eppendorf** – *Mastercycler® EP Realplex*
MJ Research – *PTC-200 DNA Engine™, PTC-220/221 DNA Dyad™, PTC-225 DNA Tetrad™, PTC-100™ w/96-well Block*	–
Stratagene – *Robocycler, Gradient Cycler*	**Stratagene** – *Mx4000®, Mx3000P®, Mx3005P™*

CAT# MAP980C - 25 units, clear **$85**



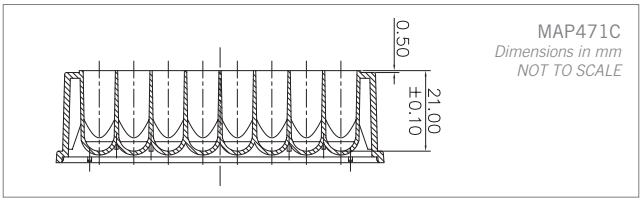
MAP384
Dimensions in mm
NOT TO SCALE

384 well Standard Plate, Skirted

- 40µl max well volume; 25µl working well volume

PCR	QPCR
ABI – *Verite 384-well Block, GeneAmp® 9700*	**ABI** – *7900HT*
Biometra – *T1 ThermoCycler*	–
Bio-Rad – *C1000, S1000*	**Bio-Rad** – *CFX96*
Eppendorf – *M384*	–
MJ Research – *PTC-200 DNA Engine™, PTC-220/221 DNA Dyad™, PTC-225 DNA Tetrad™*	–
Stratagene – *Gradient Cycler*	–

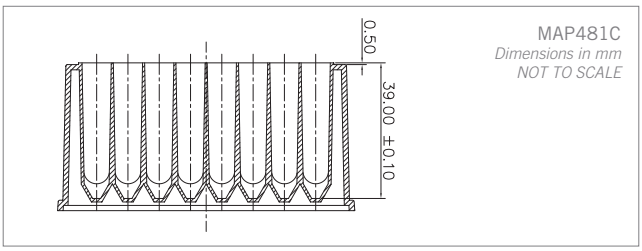
CAT# MAP384 - 50 units, clear **$206**



96 well Deep Storage Plate
Square well, U-Bottom

- U-Bottom ideal for sample resuspension
- 1.2ml max well volume (with adhesive and heat seals)
- Compatible with ABI's SOLiD™ system and other deep well instruments

CAT# MAP471C - 50 units, clear **$163**



96 well Deep Storage Plate
Square well, V-Bottom

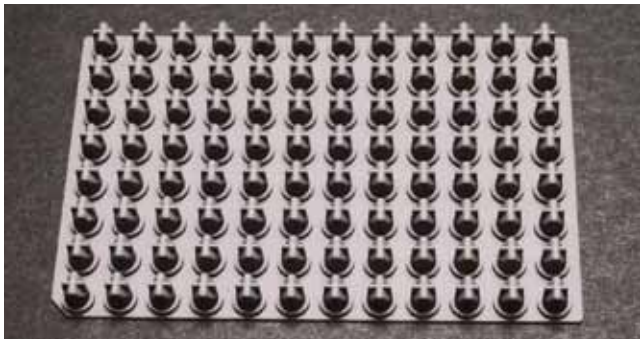
- V-Bottom improved sample recovery and decreased dead volume
- 2.2ml max well volume (with adhesive and heat seals)
- Compatible with ABI's SOLiD™ system and other deep well instruments

CAT# MAP481C - 50 units, clear **$207**

MicroPlate Viewer

MicroPlate Viewer for camera systems to control parrallax edge effects when viewing microtiter plates. The lens minimizes the distortion of the outer rows of sample wells which do not focus well. This lens accommodates a large aperture with a short focal length.

CAT# MPV-100 **$395**



SeptaMat
Mat for sequencing

- Perfect fit for ABI-3100, 3700, 3730 sequencers
- Piercable septa for easy penetration

CAT# SEP96-20 - 20 units **$175**

SealingMat
Mat for 384 well sequencing plates & PCR

- Tight fit seal around each well for cycling & storage to -190ºC
- Autoclavable and re-usable
- Piercable silicone rubber

CAT# SEP384-25 - 25 units **$85**

SecureMat
Mat for 384 well sequencing plates & PCR

- Volume reducing
- Tight fit seal around each well for cycling & storage to -190ºC
- Autoclavable and re-usable
- Silicone rubber

CAT# SEP384LV-25 - 25 units **$265**

ThermalSeal
Film for PCR & storage

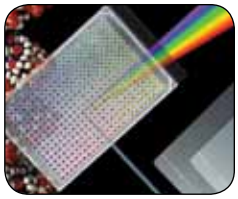
Heat-resistant polypropylene film designed for thermal cycling applications, ThermalSeal is now produced with a slightly stronger adhesive than the original product for better adherence to plates.

- Recommended for temperatures from -40ºC to +120ºC
- Certified DNase-, and RNase-, and nucleic-acid- free
- ThermalSeal is not piercable

ThermalSeal II, Non-Sterile
CAT# MAF300 - 100 units **$52**

ThermalSeal II, Sterile
CAT# MAF310 - 100 units **$73**

ThermalSeal RT
Film for real-time PCR



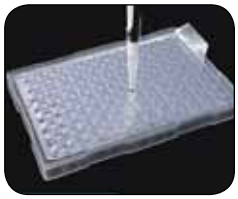
Optically transparent polyester film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications.

- Brilliant ultra-high optical clarity
- Available in 2 mil thickness and for more rigid 5 mil
- Certified DNase-, RNase-, and nucleic-acid- free

ThermalSeal RT, 2 mil thickness
CAT# MAF800 - 100 units **$110**

ThermalSeal RT, 5 mil thickness
CAT# MAF850 - 100 units **$126**

AlumaSeal
Aluminum film for PCR & storage



Heat and cold resistant, recommended for temperatures from 80ºC to +150ºC. Certified DNase-, RNase-, and nucleic-acid- free. Piercable and available non-sterile only.

AlumaSeal 96

- Fits inside the rim of raised-rim plates.
- Films have one partial-width end tab with no perforations.
- Replacement for Corning®/Costar® #6570

AlumaSeal 96, Non-Sterile
CAT# MAF150 - 100 units **$66**

AlumaSeal 384

- Films have one end tab with no perforations.
- Replacement for Corning®/Costar® #6569

AlumaSeal 384, Non-Sterile
CAT# MAF170 - 100 units **$66**

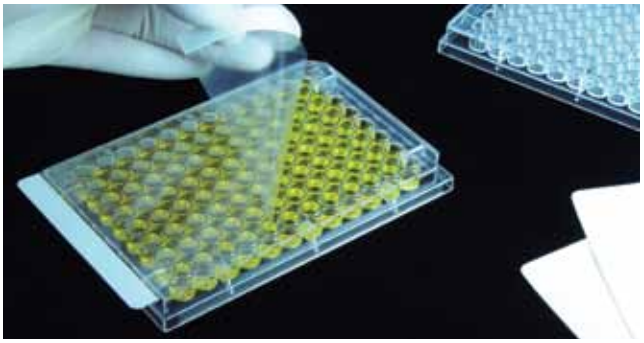
AlumaSeal II
Aluminum film for PCR & cold storage

A 1.5 mil soft non-permeable aluminum foil with strong medical-grade adhesive, AlumaSeal II eliminates the need for heat-sealing devices or mats during thermal cycling. Heat & cold resistant.

- Recommended for temperatures from -80ºC to +120ºC
- Certified DNase-, and RNase-, and nucleic-acid- free
- Easily piercable with single or multichannel pipettors and robotic probes
- Excellent barrier properties, virtually no sample evaporation or drying

AlumaSeal II, Non-Sterile - 100 units
CAT# MAF100 **$73**

AlumaSeal II, Sterile - 50 units
Packaged in 4ml tamper-evident bags of 25
CAT# MAF110 **$52**



SealPlate
Film for ELISA,
incubation & storage

A 2 mil polyester film minimizes evaporation, prevents spillage and contamination between wells and provide a secure seal, not just a cover, eliminating "edge effects" in sensitive ELISA assays.

- Functional temperature range from -40ºC to +120ºC
- Can be used with tissue-culture plates for short-term storage, incubation, and containment of biohazards
- Non-piercable

SealPlate, Non-Sterile - 100 units

CAT# MAF500 **$41**

SealPlate, Sterile - 100 units

CAT# MAF510 **$57**

SealPlate UltraThin, Non-Sterile - 100 units

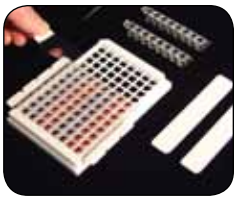
CAT# MAF550 **$55**

SealPlate UltraThin, Sterile - 100 units

CAT# MAF560 **$63**

SealPlate MiniStrips
Film for ELISA,
incubation & storage

Designed for sealing only one or two 8 well rows at a time.



- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge
- Can be used as secondary seal to cover pierced films

SealPlate MiniStrips, Non-Sterile - 200 units

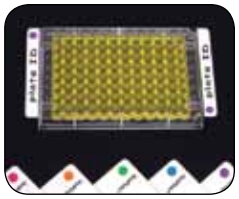
CAT# MAF200 **$34**

SealPlate MiniStrips, Sterile - 200 units

Packaged in tamper-evident bags of 50

CAT# MAF210 **$42**

SealPlate ColorTab
Film for ELISA,
incubation & storage



- Color dots and white labeling area on end tabs
- End tabs can be left on plate for identification even if center of film is removed
- Second tab can be inscribed and separated

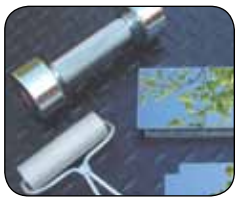
SealPlate ColorTab, Non-Sterile - 100 units

CAT# MAF600 **$60**

SealPlate ColorTab, Sterile - 50 units

CAT# MAF610 **$55**

TuffSeal
Film for processing,
storage & transport



A tough, puncture-proof, light blocking 2 mil non-permeable metalized polyester film with medical-grade adhesive protects contents and eliminates evaporation, cross-contamination and leakage.

- Recommended for temperatures from -40ºC to +120ºC
- No tendency to roll back during application
- Reliable seal under all conditions
- Tougher than metal foils, will not tear, rip - ideal for stacking

TuffSeal, Non-Sterile - 100 units

CAT# MAF400 **$57**

TuffSeal, Sterile - 50 units

CAT# MAF410 **$41**

Film Roller

4" soft rubber plate roller assures a secure and uniform seal. 1 unit

CAT# MAFROLL **$31**

"your discount accessory supplier"

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NEW PRODUCTS AND LAB SPECIALS

www.gelcompany.com

DNA CLEAN UP

microCLEAN

With no spin column microCLEAN is quicker, cheaper and more flexible than other products. It offers excellent recovery, is reliable and can be used for both tubes and plates. Just add an equal volume of microCLEAN to the sample, follow the 1½ spin protocol and get clean PCR fragments/DNA in less than 15 minutes.

- microCLEAN is specially formulated to capture small DNA
- Ideal for cleaning up PCR fragments prior to sequencing.
- Protocols available for tubes and plates

Protocol on page 49

CAT# 2MCL-05 - 5 x 1 mL **$135**
CAT# 2MCL-10 - 10 x 1 mL **$251**
CAT# 2MCL-50 - 50 mLs **$1117**

DNA CYCLER TESTING

Thermocycle Testing Kit

The easy way to check your PCR machine. Just take 10 µl from two tubes, mix together and thermocycle. The OK! Kit will identify whether your thermocycler is running correctly. It will identify as little as 1°C deviation from the correct annealing temperature and so is a fast, convenient and inexpensive way of assessing machine performance.

This kit is batch specific so please contact us for a protocol. gelinfo@gelcompany.com

CAT# 20K-100 - 100 tests **$117**
CAT# 20K-500 - 500 tests **$495**

DNA TUBES

Snap-Cap Tubes

Snap-Cap Tubes with ultra clear, individually attached, flat cap to each tube in the strip. Compatible with 0.2 mL thermal cycler blocks. PCR and QPCR setup and analysis are made much simpler with the unique design of these new tubes. Manufactured from virgin polypropylene and certified RNase, DNase and endotoxin free.

CAT# MAT132N - 250 strips of 8 **$84**

Individual Tubes

In addition to being RNase, DNase and endotoxin free, these tubes are also free from particle and DNA contamination. Designed and tested for optimal PCR performance.

Compatible with the majority of PCR thermal cyclers available and a range of throughputs makes choosing a PCR tube or plate easy.

0.2 Individual Tubes

With attached flat cap, assorted colors
CAT# MAT100C - 1000 tubes **$58**

With attached domed cap
CAT# MAT150C - 1000 tubes **$58**

0.5 Individual Tubes

With attached flat cap
CAT# MAT400C - 1000 tubes **$58**

With attached domed cap
CAT# MAT450C - 1000 tubes **$58**

1.5 Tubes

Screw cap tubes and caps with "O" rings, assorted colors
CAT# MAT500A - 500 tubes and screw caps **$85**

Boil-proof microtubes with attached snap caps, assorted colors
CAT# MAT550A - 500 tubes **$85**

0.2 ml 8-Strip Tubes

With flat caps, assorted colors
CAT# MAT200A - 250 strips of 8 tubes and caps **$186**

With domed caps, clear
CAT# MAT250C - 250 strips of 8 tubes and caps **$163**

With domed caps, assorted colors
CAT# MAT260A - 250 strips of 8 tubes and caps **$163**

0.2 ml 12-Strip Tubes

With domed caps, clear
CAT# MAT300C - 80 strips of 12 tubes and caps **$129**

Strip of 8 Domed Caps

300 strips of 8 domed caps for use with 96 well PCR plates.

CAT# DC-602 **$42**

TRANSFECTION

Electroporation Cuvettes

Maximize molecular electroporation and electrofusion efficiencies. Designed for Bacteria, Yeast, Insect, Plant and Mammalian cells. Each batch of cuvettes are quality tested for optimal and reproducible impedance measurements. Compatible with Bio-Rad®'s - GenePulser®/MicroPulser Cuvettes and most electroporation systems. Cap design enables improved aseptic handling techniques, while the lip and positive seal reduces possible contamination. All 1 mm and 2 mm cuvettes have tapered V bottom to minimize dead volumes. Sterile.

Short Electrodes

CAT# EPC001-50 - 1mm gap, 50 units $131
CAT# EPC002-50 - 2mm gap, 50 units $131

Long Electrodes

CAT# EPC101-50 - 1mm gap, 50 units $131
CAT# EPC102-50 - 2mm gap, 50 units $131
CAT# EPC104-50 - 4mm gap, 50 units $131

DNA ELECTROPHORESIS

Agarose

Isolator for agarose gel electrophoresis is PCR certified; has high strength and low EEO; excellent transparency and high visibility which is great for band picking; easy gel preparation; high thermal stability; low absorption of staining agents. Use for applications such as nucleic acid analytical and preparative electrophoresis, blotting and protein electrophoresis (radial immunodiffusion).

Specifications

Moisture	≤ 7%	Gelling Temperature 1.5% (°C)	36 ± 1.5
Ash	≤ 4%	Melting Temperature 1.5% (°C)	88 ± 1.5
EEO	0.05-0.13	DNase/RNase Activity	None detected
Sulfate	≤0.2%	DNA resolution ≥ 1000bp	Finely resolved
Clarity 1.5% (NTU)	≤3	Gel background	Very low
Gel Strength 1% (g/cm^2)	≥1200		
Gel Strength 1.5% (g/cm^2)	≥2500		

CAT# AGD025 - 25g $47
CAT# AGD050 - 50g $78
CAT# AGD100 - 100g $126
CAT# AGD250 - 250g $259
CAT# AGD500 - 500g $444

Agarose Tablets

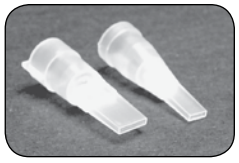
Agarose Tablets (DNase/RNase free) are designed to provide a cleaner, safer, no-mess environment and more convenience than powdered agarose. Each tablet contains a pre-determined amount of agarose (0.5g), eliminating the need to weigh out loose agarose powder. Simply add the appropriate number of tablets to buffer, incubate at room temperature for 5 minutes, heat solution and then prepare your gel as normal.

Protocol on page 45

CAT# AGT05-100 - 100 tablets $70

GeneCatcher

Disposable gel excision tips



Designed for quickly removing bands from agarose gels, GeneCatcher uses a rectangular band shaped disposable tip which eliminates cross contamination between samples. No more unsafe razor blades, which require multiple steps, lead to variable results and are slow and tedious. GeneCatcher is a safe and efficient one handed operation, with a push button gel and tip release, providing researchers with uniform extractions.

GeneCatcher Tips

250 individual tips per bag

CAT# PKB4.0 - 1.0mm x 4.0mm $73
CAT# PKB6.5 - 1.0mm x 6.5mm $73

GeneCatcher Tips - Pre-racked

5 racks of 48 tips

CAT# PKB4.0-R - 1.0mm x 4.0mm $163
CAT# PKB6.5-R - 1.0mm x 6.5mm $163

CleanSpin

Gel DNA recovery kit

The CleanSpin Gel DNA Recovery Kit provides simple, rapid methods for the purification and concentration of high quality DNA from agarose gel slices. The product features a single buffer system that allows for efficient dissolving of agarose gel slices and the subsequent adsorption of DNA onto the matrices of the supplied spin columns. The DNA is washed twice then eluted with a small volume of water. The entire DNA purification/concentration procedure typically takes about 15-20 minutes. The procedure is easy: simply add the specially formulated Agarose Dissolving Buffer (ADB™) to the gel slice containing your DNA sample, let dissolve, and transfer the mixture to the supplied column then spin, wash, and elute the DNA. There is no need for organic denaturants or chloroform. Instead, the product utilizes a unique column technology to yield high quality, purified DNA in just minutes. DNA purified using the CleanSpin Gel DNA Recovery Kit is perfectly suited for use in DNA ligation reactions, sequencing, DNA labeling reactions, PCR, etc.

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CleanSpin - Spin Column

CAT# DRK-50 - 50 preps $70
CAT# DRK-200 - 200 preps $282

CleanSpin - 96 well

CAT# DRK-192 - 192 preps $191
CAT# DRK-384 - 384 preps $371

Discover DNA Ladder, Ready to Use

A unique combination of PCR products and a number of proprietary plasmids digested with appropriate restriction enzymes to yield fragments, suitable for use as molecular weight standards for agarose gel electrophoresis.

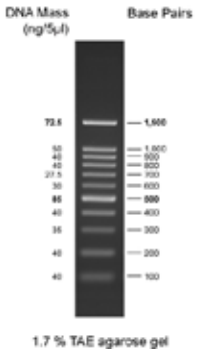
The approximate mass of DNA in each band is provided (0.5 µg a load) for approximating the mass of DNA in comparably intense samples of similar size.

100-1,500 bp

The DNA includes 11 fragments ranging from 100-1,500 base pairs. The 500 and 1,500 base pair bands have increased intensity to serve as reference points.

Discover DNA Ladder

CAT# DDL-001 - 50µg/500µl
$53



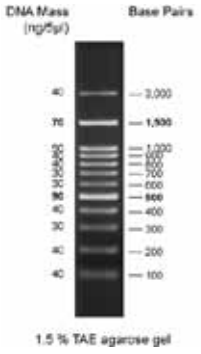
1.7 % TAE agarose gel

100-3,000 bp

The DNA includes 12 fragments ranging from 100-3,000 base pairs. The 500 and 1,500 base pair bands have increased intensity to serve as reference points.

Discover DNA Ladder

CAT# DDL-003 - 50µg/500µl
$53



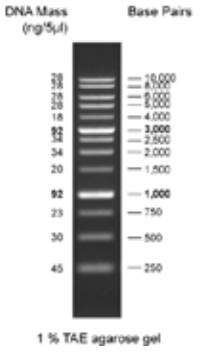
1.5 % TAE agarose gel

250-10,000 bp

The DNA includes 13 fragments ranging from 250-10,000 base pairs. The 1K and 3K bands have increased intensity to serve as reference points.

Discover DNA Ladder

CAT# DDL-010 - 50µg/500µl
$53



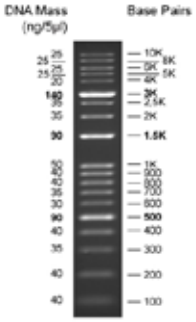
1 % TAE agarose gel

100-10,000 bp

The DNA includes 19 fragments ranging from 100-10,000 base pairs. The 500, 1.5K and 3K bands have increased intensity to serve as reference points.

Discover DNA Ladder

CAT# DDL-011 - 86µg/500µl
$85



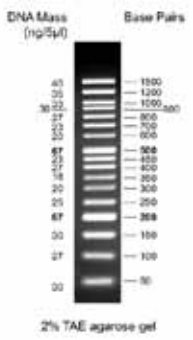
1.5 % TAE agarose gel

50-1,500 bp

The DNA includes 17 fragments ranging from 50-1,500 base pairs. The 200 and 500 base pair bands have increased intensity to serve as reference points.

Discover DNA Ladder

CAT# DDL-012 - 50µg/500µl
$85



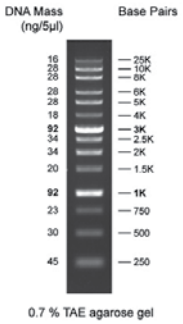
2% TAE agarose gel

250-25,000 bp

The extra large DNA Ladder is composed of 14 individual DNA fragments: 25K, 10K, 8K, 6K, 5K, 4K, 3K, 2.5K, 2K, 1500, 1000, 750, 500, 250 base pairs. This product contains two enhanced bands (3K and 1K bp) for easy reference. The ladder is ready-to-use, which is premixed with loading buffer dye for direct loading on gel.

Discover DNA Ladder

CAT# DDL-013 - 50µg/500µl
$85



0.7 % TAE agarose gel

Mupid®

Everything you need for an all inclusive horizontal gel system

New generation submarine electrophoresis systems includes a detachable, multi-function power supply, direct visible gel box with high UV transmittance, a safety shut-off interlock cover, multichannel compatible gel loading combs, gel pouring stand, and a built in timer for set runs or continuous run modes. Units includes casting stand, combs, trays and power supply.

Mupid®-exU

Cast 1 large
or 2 small gels

- **Complete UV-transmittancy**
  Made of highly UV-transmittable plastic, allowing direct observation of bands during electrophoresis by installation of the bath on a transilluminator.
- **Multisample analysis (support for multipipettors)**
  Simultaneous electrophoresis of 104 samples with a single gel. Wider than the conventional Mupid® series and forms 13 or 26 lanes, enabling sample loading w/multipipettors.
- **Timer function**
  The timer can be set within the range of 1-99 minutes (with alarm function). A memory function setting is provided for storage of the previous timer/output settings.
- **Variation of input and output voltages**
  Input voltage supports 100-240V, allowing worldwide use. Output voltage can be selected from 7 levels.

CAT# MPDEXU-01 **$635**

Includes casting stand, combs, trays and power supply

Replacement parts available:

CAT# MGT-01 - Gel Running Tray set (1 lg and 2 sm) $47
CAT# CMR-04 - Comb set, 4/pk $57
CAT# MCS-01 - Casting Stand for 1 lg or 2 sm gels $31

MIGRATION TANK	
External dimensions	183mm (W) × 164mm (L) × 56mm (H)
Buffer volume	Approx. 330-550mL (including gel and buffer)
Material	UV-transmittable resin (transmittancy: 50% at 254nm, 80% at 312nm)
POWER SUPPLY	
External dimensions	64mm (W) × 164mm (L) × 59mm (H)
Input / Output	AC100-240 V, 50/60 Hz 18V, 25V, 35V, 50V, 70V, 100V, and 135V
Timer function	1-99 min and continuous power distribution (suspendable)
Memory function	Automatic storage of the previous settings
Safety function	Confirmation of the cover by the light sensor
GEL MAKER SET	
Gel maker stand dimen.	149mm (W) × 125mm (L) × 20mm(H)
Gel tray - Large (1) / Small (2)	130mm (W) × 122mm (L) • 30mm (W) × 60mm (L) (Cast 1 large or 2 small gels)
Combs - Well shape	6mm (W) × 1mm (L) × 13 wells 2mm (W) × 1mm (L) × 26 wells

Mupid®-2plus

Cast 2 large
or 4 mini gels

- **Highly proven, reliable system**
  Improved edition of the Mupid®-2 which has shown excellent performance in various fields of research. Conventional experiment protocols can be used without alteration.
- **Excellent and functional design**
  User-friendly/easy-to-operate controls and buffer discharge system.
- **Easy-to-wash electrophoresis bath**
  Because the power supply can be detached, discarding buffer and/or cleaning the migration tank is easy.
- **High safety**
  The Mupid®-2plus gives sufficient consideration to safety, featuring a narrowed chamber lid slit and safety swtich (power supply will not turn on unless the lid is set).

CAT# MPD2PLUS **$528**

Includes casting stand, combs, trays and power supply

Replacement parts available:

CAT# MGT2-01 - Gel Running Tray set (2 lg and 4 sm) $75
CAT# CMR2-04 - Comb set, 4/pk $85
CAT# MCS2-01 - Casting Stand for 2 lg or 4 sm gels $60

MIGRATION TANK	
External dimensions	187mm (W) × 136mm (L) × 57mm (H)
Buffer volume	Approx. 250-280mL (maximum 300mL when setting gel)
Material	PPHOX
POWER SUPPLY	
External dimensions	43mm (W) × 109mm (L) × 52mm (H)
Input / Output	AC100-110V DC50V, 100V
Fuse	250V, 0.8A
GEL MAKER SET	
Gel maker stand dimen.	240mm (W) × 126mm (L) × 17mm (H)
Gel tray - Large (2) / Mini (4)	109mm (W) × 60mm (L) • 55mm (W) × 60mm (L) (Cast 2 large or 4 mini gels)
Combs - Well shape	6mm (W) × 1mm (L) × 12 wells 4mm (W) × 1mm (L) × 17 wells 6mm (W) × 1mm (L) × 6 wells 4mm (W) × 1mm (L) × 8 wells

MupidIlluminator

DNA gel fluorescent signal observation

Real time LED illuminator for DNA gel fluorescent signal observation, designed to fit your Mupid-EXU series. View real-time results with just a push of a button. No need to wait or reserve an imaging system.

- Strong blue LED: used with common nucleic acid dyes
- Easy to use: simply place right onto Mupid-EXU tank
- Time/cost saving: minimize trial & error
- High sensitivity
- Amber filter

CAT# MPLV-01 **$245**

Amber DNA

Fluorescent DNA stain

Amber DNA is a non-mutagenic fluorescent reagent that produces instant visualization of DNA bands upon Blue Light or UV illumination of agarose gels. Supplied in a 6X DNA Loading Buffer, AMBER DNA is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. AMBER DNA is the most sensitive stain available for detecting the double-stranded DNA (dsDNA). It contains three tracking dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) for visually tracking the DNA migration during the electrophoresis process. It is ideal for the environment requiring a safe, non-hazardous alternative to Ethidum Bromide.

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CAT# AMD-1000 - 1 ml **$37**

UltraThin LED Illuminator

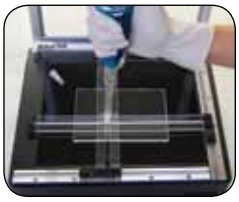
UltraThin LED Illuminator offers the flexibility of easy gel cutting. It's compact and lightweight for easy portability.

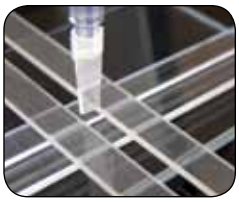
Overall dimensions:
210mm (D) x 210mm (W) x 30mm (H)
Viewing surface: 120mm (D) x 70mm (W)

- **User friendly**: View and cut gels easily, with no need to wear amber glasses
- **Safe**: Blue LED's are less harmful than UV light; no DNA damage
- **Sensitive**: Optimized for use with most nucleic acid and protein stains, sensitivity up to 0.5ng
- **Uniform**: <10% coefficient of variance (CV) in the central viewing area

CAT# TLB-01 - black unit **NEW LOW PRICE $525**
CAT# TLW-01 - white unit **NEW LOW PRICE $525**

UltraBright Large Format LED Transilluminator





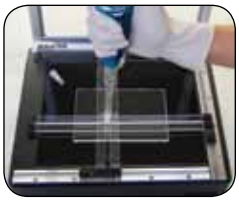
The UltraBright LED Transilluminator is designed for viewing stained gels on the laboratory bench, or within gel documentation systems. The LED light source excites commonly used nucleic acid and protein stains such as EtBr, SYBR® Safe, SYBR Gold, SYBR® Green I & II, SYPRO® Ruby, SYPRO® Orange, Coomassie Fluor™ Orange stains, GelGreen, GelRed and Lumitein™ Protein Gel Stain.

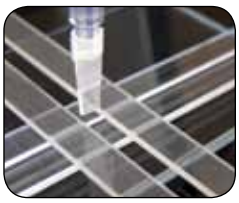
Additionally, the CrossFire tool provides a quick, mechanical method to cut bands without misalignment of the cutting tool to the band, which is important for screening homologs or for next generation sequencing applications.

Overall dimensions: 280mm (D) x 340mm (W) x 80mm (H)
Viewing surface: 160mm (D) x 200mm (W)

CAT# TLL-100 **$1373**

UltraBright Large Format UV Transilluminator



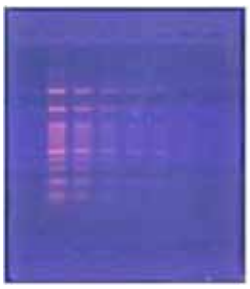


The UltraBright UV Transilluminator is designed for viewing stained gels on the laboratory bench, or within gel documentation systems.

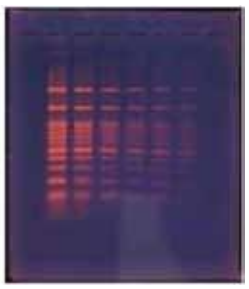
The CrossFire alignment tool provides a quick, mechanical method to cut bands without misalignment of the cutting tool to the band, which is important for screening homologs or for next generation sequencing applications. It also minimizes UV exposure as you can turn off the lamps once the band(s) have been identified prior to cutting.

Overall dimensions: 280mm (D) x 340mm (W) x 80mm (H)
Viewing surface: 160mm (D) x 200mm (W)

CAT# TUL-100 **$1373**

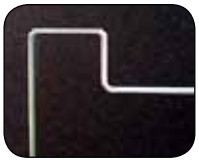
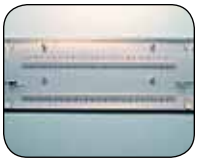


Conventional



UltraBright

LI-COR® 4000S, 4200S, 4300S

Membrane Combs

CAJ96	1.5 mm spacing, 0.2 mm thick, 10 pack	$92
CAM48L	3.0 mm spacing, 0.2 mm thick, 10 pack	$63
CAM64L	2.2 mm spacing, 0.2 mm thick, 10 pack	$73

Membrane Loading Solution

DAG25	25 mL, for genotyping	$73
DAL25	25 mL, for squencing	$73

Casting Combs

CLC55-020	5.5 mm depth, 0.2 mm thick	$52
CLC55-030	5.5 mm depth, 0.3 mm thick	$52
CLC55-040	5.5 mm depth, 0.4 mm thick	$52
CLC63-020	6.3 mm depth, 0.2 mm thick	$52
CLC63-030	6.3 mm depth, 0.3 mm thick	$52
CLC63-040	6.3 mm depth, 0.4 mm thick	$52

Sharkstooth Combs

CLK24-020	24 lane, 0.2 mm thick	$52
CLK24-030	24 lane, 0.3 mm thick	$52
CLK24-040	24 lane, 0.4 mm thick	$52
CLK32-020	32 lane, 0.2 mm thick	$52
CLK32-030	32 lane, 0.3 mm thick	$52
CLK32-040	32 lane, 0.4 mm thick	$52
CLK36-020	36 lane, 0.2 mm thick	$52
CLK36-030	36 lane, 0.3 mm thick	$52
CLK36-040	36 lane, 0.4 mm thick	$52
CLK48-020	48 lane, 0.2 mm thick	$52
CLK48-030	48 lane, 0.3 mm thick	$52
CLK48-040	48 lane, 0.4 mm thick	$52
CLK64-020	64 lane, 0.2 mm thick	$52
CLK64-030	64 lane, 0.3 mm thick	$52
CLK64-040	64 lane, 0.4 mm thick	$52
CLK72-020	72 lane, 0.2 mm thick	$52
CLK72-030	72 lane, 0.3 mm thick	$52
CLK72-040	72 lane, 0.4 mm thick	$52
CLK96-020	96 lane, 0.2 mm thick	$52
CLK96-030	96 lane, 0.3 mm thick	$52
CLK96-040	96 lane, 0.4 mm thick	$52

Well Forming Combs

CLW24-020	24 lane, 0.2 mm thick	$52
CLW24-030	24 lane, 0.3 mm thick	$52
CLW24-040	24 lane, 0.4 mm thick	$52

LI-COR® 4000S, 4200S, 4300S

Well Forming Combs *continued*

CLW34-020	34 lane, 0.2 mm thick	$52
CLW34-030	34 lane, 0.3 mm thick	$52
CLW34-040	34 lane, 0.4 mm thick	$52
CLW40-035	40 lane, 0.35 mm thick	$52
CLW48-020	48 lane, 0.2 mm thick	$52
CLW48-030	48 lane, 0.3 mm thick	$52
CLW48-040	48 lane, 0.4 mm thick	$52
CLW50-020	50 lane, 0.2 mm thick	$52
CLW50-030	50 lane, 0.3 mm thick	$52
CLW50-040	50 lane, 0.4 mm thick	$52
CLW64-020	64 lane, 0.2 mm thick	$52
CLW64-030	64 lane, 0.3 mm thick	$52
CLW64-040	64 lane, 0.4 mm thick	$52
CLW66-020	66 lane, 0.2 mm thick	$52
CLW66-030	66 lane, 0.3 mm thick	$52
CLW66-040	66 lane, 0.4 mm thick	$52
CLW72-020	72 lane, 0.2 mm thick	$52
CLW72-030	72 lane, 0.3 mm thick	$52
CLW72-040	72 lane, 0.4 mm thick	$52

Borofloat Plates

GLO18N	18 x 25 cm notched plate	$63
GLO18R	18 x 25 cm rectangular plate	$63
GLO25N	25 x 25 cm notched plate	$73
GLO25R	25 x 35 cm rectangular plate	$63
GLO41N	41 x 25 cm notched plate	$78
GLO41R	41 x 25 cm rectangular plate	$68
GLO66N	66 x 25 cm notched plate	$105
GLO66R	66 x 25 cm rectangular plate	$89

Starphire Plates

GLZ25N	25 x 25 cm notched plate	$94
GLZ25R	25 x 35 cm rectangular plate	$84
GLZ41N	41 x 25 cm notched plate	$105
GLZ41R	41 x 25 cm rectangular plate	$94

Spacers

SLR18-020	18 cm mylar spacer, 0.2 mm thick	$47
SLR18-030	18 cm mylar spacer, 0.3 mm thick	$47
SLR18-040	18 cm mylar spacer, 0.4 mm thick	$47
SLR25-020	25 cm mylar spacer, 0.2 mm thick	$47
SLR25-030	25 cm mylar spacer, 0.3 mm thick	$47
SLR25-040	25 cm mylar spacer, 0.4 mm thick	$47
SLR41-020	41 cm mylar spacer, 0.2 mm thick	$47
SLR41-030	41 cm mylar spacer, 0.3 mm thick	$47

Loading Trays

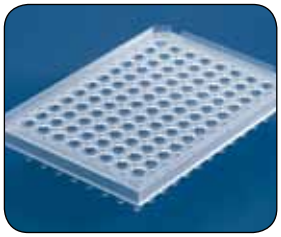
TAM48L	48 lane rapid loading membrane tray	$206
TAM64L	64 lane rapid loading membrane tray	$206
TAY96	96 lane loading tray, 1.5mm spacing	$206

ARE YOU PAYING TOO MUCH FOR ABI GENETIC ANALYZER ACCESORIES?

We offer accessories for the 3730, 3730XL, 3500, 3500XL, 3130XL, 3100-AVANT, 3130 and 310 genetic analyzers. Please let us know if there are other items you would like us to add for Applied Biosystems accessories.

10X CE Buffer with EDTA
Each lot is function tested.

ABI310	SIZE	GELCO#	PRICE
Septa for .5 mL Tubes	500pkg	SEP05-500	$131
Sample Tubes (0.5mL)	500pkg	SET500	$41
10X Genetic Analyzer Buffer w/EDTA	25mL	DAD-025	$63
310 Capillaries, 47cm	5pkg	IAD47-5	$180
310 Capillaries, 61cm	2pkg	IAD61-2	$94
400 ROX Ladder	800rxn	MRK400	$301
500 ROX Ladder	800rxn	MRK500	$301
1000 ROX Ladder	800rxn	MRK1000	$444
500 Dye 5 Ladder (30-500 bp)	800rxn	MRL500	$301
500 Dye 5 Ladder-Plus (70-500 bp)	800rxn	MRL500-PLUS	$301
1000 Dye 5 Ladder	800rxn	MRL1000	$444
BetterBuffer BigDye Enhance	3mL	DAF-10	$386
Sequencing Grade Water	25mL	DWW-025	$15
Deionized Formamide	25mL	DFM-025	$25
CleaSeq Clean-up Kit	50preps	DCU-50	$102



Detection plates. Optically clear for real time PCR.
Barcoding available.

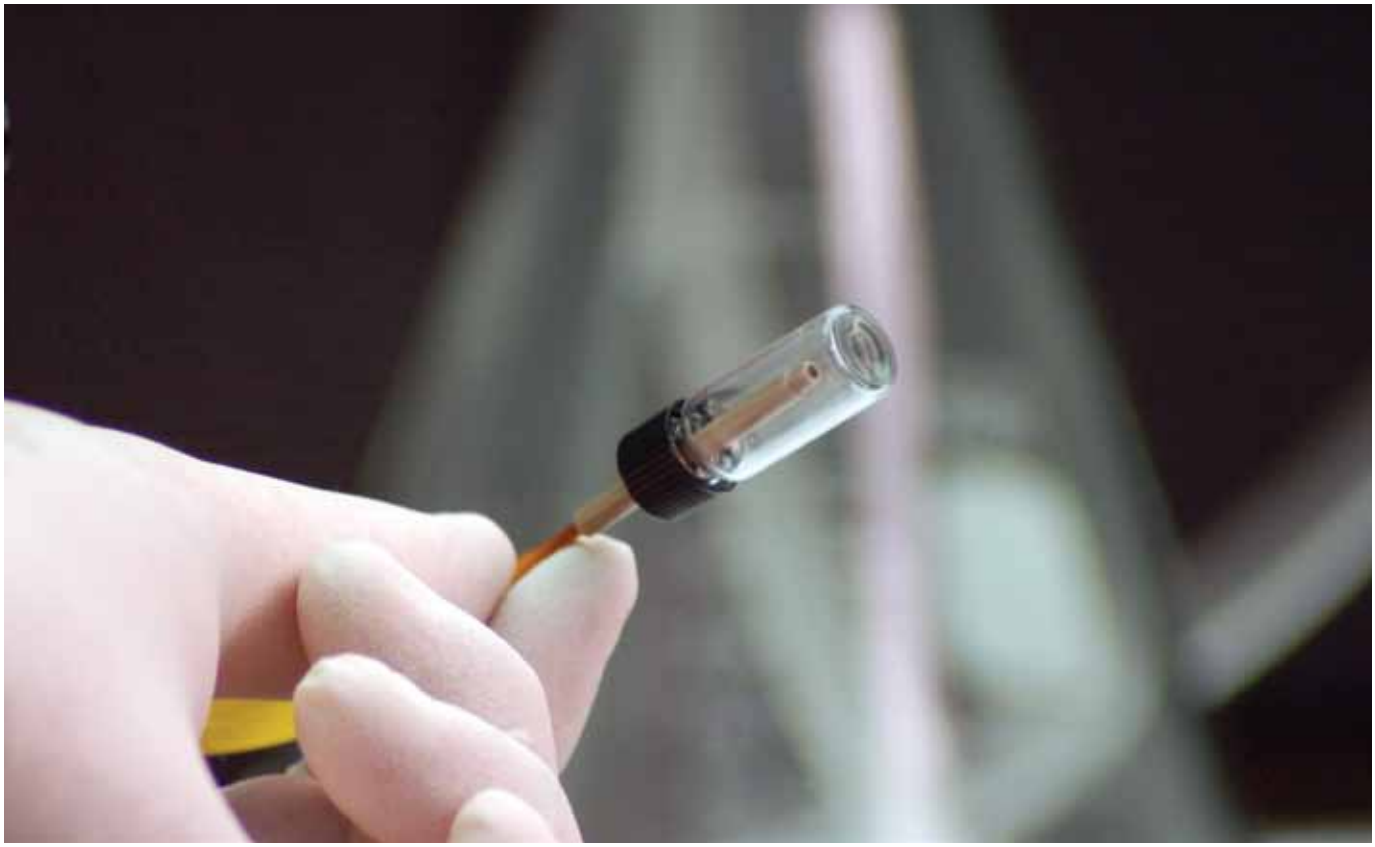
ABI3100/3130XL	SIZE	GELCO#	PRICE
Regenerated Array - 4 capilary	1ea	AR3100-4	$197
Regenerated Array - 16 capillary	1ea	AR3100-16	$225
10X Genetic Analyzer Buffer w/EDTA	25mL	DAX-025	$63
Reservoir Septa	20pkg	SEP16-20	$133
96-Well Plate Septa	20pkg	SEP96-20	$175
96-Well Detection Plates	25pkg	MAP100C	$80
400 ROX Ladder	800rxn	MRK400	$301
500 ROX Ladder	800rxn	MRK500	$301
1000 ROX Ladder	800rxn	MRK1000	$444
500 Dye 5 Ladder (30-500 bp)	800rxn	MRL500	$301
500 Dye 5 Ladder-Plus (70-500 bp)	800rxn	MRL500-PLUS	$301
1000 Dye 5 Ladder	800rxn	MRL1000	$444
BetterBuffer BigDye Enhance	3mL	DAF-10	$386
Sequencing Grade Water	25mL	DWW-025	$15
Deionized Formamide	25mL	DFM-025	$25
CleaSeq Clean-up Kit	50preps	DCU-50	$102

Regenerate your used array for a fraction of the cost of a new one. Compatible with all array types.

ABI3500/3500XL	SIZE	GELCO#	PRICE
Regenerated Array - 8 capillary	1ea	AR3500-8	$212
Regenerated Array - 24 capillary	1ea	AR3500-24	$398
10X Genetic Analyzer Buffer w/EDTA	25mL	DAX-025	$63
96-Well Plate Septa	20pkg	SEP96-20	$175
96-Well Detection Plates	25pkg	MAP100C	$80
400 ROX Ladder	800rxn	MRK400	$301
500 ROX Ladder	800rxn	MRK500	$301
1000 ROX Ladder	800rxn	MRK1000	$444
500 Dye 5 Ladder (30-500 bp)	800rxn	MRL500	$301
500 Dye 5 Ladder-Plus (70-500 bp)	800rxn	MRL500-PLUS	$301
1000 Dye 5 Ladder	800rxn	MRL1000	$444
BetterBuffer BigDye Enhance	3mL	DAF-10	$386
Sequencing Grade Water	25mL	DWW-025	$15
Deionized Formamide	25mL	DFM-025	$25
CleaSeq Clean-up Kit	50preps	DCU-50	$102

Optically clear heat sealing film. Compatible with Abgene ALPS 300 automated heat sealer.

ABI3730/3730XL	SIZE	GELCO#	PRICE
Regenerated Array - 48 capillary	1ea	AR3730-48	$562
Regenerated Array - 96 capillary	1ea	AR3730-96	$1011
10X Genetic Analyzer Buffer w/EDTA	1L	DAB-01	$1153
Heat Seal Film Roll	1pkg	GC3730	$613
96-Well Plate Septa	20pkg	SEP96-20	$175
96-Well Detection Plates	25pkg	MAP100C	$80
400 ROX Ladder	800rxn	MRK400	$301
500 ROX Ladder	800rxn	MRK500	$301
1000 ROX Ladder	800rxn	MRK1000	$444
500 Dye 5 Ladder (30-500 bp)	800rxn	MRL500	$301
500 Dye 5 Ladder-Plus (70-500 bp)	800rxn	MRL500-PLUS	$301
1000 Dye 5 Ladder	800rxn	MRL1000	$444
BetterBuffer BigDye Enhance	3mL	DAF-10	$386
Sequencing Grade Water	25mL	DWW-025	$15
Deionized Formamide	25mL	DFM-025	$25
CleaSeq Clean-up Kit	50preps	DCU-50	$102



Capillary Array Regeneration

Recycle • Reuse • Regenerate

Increase the number of usages from your capillary array.

Send us your expired array **ABI3730/3730XL, ABI3500/3500XL** and/or **ABI3100/3130XL** and we will regenerate it back to its full use for just a fraction of the cost of a brand new capillary array. This service comes with the same warranty as a brand new array. Arrays can be regenerated multiple times.

For best results, send us your array as soon as it comes off the sequencer or store the arrays wet before shipping. (See packaging insturctions on the following page for further details)

- Receive the same array, regenerated
- Arrays come back clean and dry
- Can be stored until ready to use

ABI3100/3130XL	
CAT# AR3100-4 - 4 capillary array	**$197**
CAT# AR3100-16 - 16 capillary array	**$225**
ABI3500/3500XL	
CAT# AR3500-8 - 8 capillary array	**$212**
CAT# AR3500-24 - 24 capillary array	**$398**
ABI3730/3730XL	
CAT# AR3730-48 - 48 capillary array	**$562**
CAT# AR3730-96 - 96 capillary array	**$1011**

"your discount accessory supplier"

VISIT OUR WEBSITE FOR NEW PRODUCTS AND LAB SPECIALS

CAPILLARY ARRAY PACKAGING INSTRUCTIONS

With all capillary shipments, please include original packaging materials and contact information. In addition, capillaries should be shipped with distilled water in both the bottle and in the WetPack (see below).

PREPARING YOUR ARRAY FOR REGENERATION

1. FOR ARRAYS WHICH WILL BE PULLED FROM THE INSTRUMENT AND SHIPPED DIRECTLY:

A. Remove array from ABI genetic analyzer.

B. Assemble bottle with o-ring and screw cap; fill bottle with ddH20 then carefully insert capillary ends into bottle (FIG 1). **NOTE:** Make sure screw cap is tight. For 3730 arrays, make sure the bottle is firmly attached to the frame; otherwise the bottle can swing freely and damage capillaries (FIG 2a).

C. Place array in its original shipping container (FIG 2a/b) and note the serial number, date removed, and number of runs on the array. In many cases the box will have a different serial number than the array, so make sure you read the number from the array itself.

D. After array has been correctly packaged, ship the array to Gel Company. Do not ship arrays on Fridays but if you pull the array on a Friday, store both capillary ends of the array in ddH20 until Monday, then follow the instructions above.

2. FOR ARRAYS THAT HAVE ALREADY BEEN REMOVED AND ARE IN STORAGE:

A. If the array contains polymer, make sure both capillary ends are stored wet (both ends submersed in ddH20).

B. A convenient way to store and ship the capillary ends wet is the use of a **WetPack**. A WetPack consists of two components: a 96 Well Plate (CAT# MAP3196C) and a 96 Well Septamat (CAT# SEP96-20). Both can be cut down to desired size. Fill the plate with ddH20; attach the septamat; then secure the two pieces together with three rubber bands (FIG 3). Next, carefully insert the capillary ends through the septamat. For shipping, this method will prevent wasting a lot of water as the water does tend to spill and splash over the array while in transit. A WetPack is not required, but this step does generally produce the best results for array regeneration.

C. Follow steps 1A to 1D above.

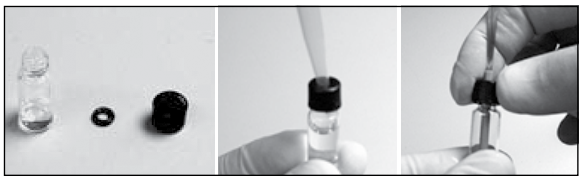


FIG. 1
Assemble bottle, o-ring and bottle cap together. With the cap loose, fill bottle with distilled water. Insert wet capillary ends into bottle assembly without cutting o-ring. This is done by wobbling the capillary rod as it is going thru o-ring. Once inside, tighten the cap so that the o-ring is squeezed enough to seal water filled bottle.

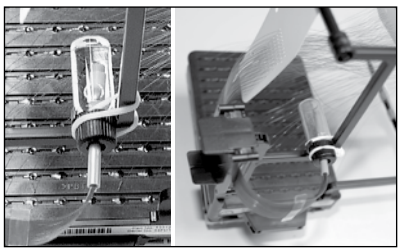


FIG. 2a
For 3730 arrays, make sure the bottle is firmly attached to the frame. Please include original capillary cover taped securely to container for return shipment.

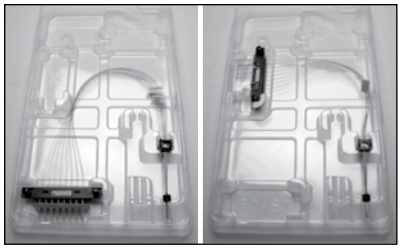
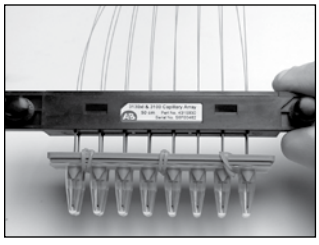


FIG. 2b
50cm or longer to be shipped in 180° position (left) and 36cm to be shipped in 90° position (right). Please include original capillary cover taped securely to container for return shipment.



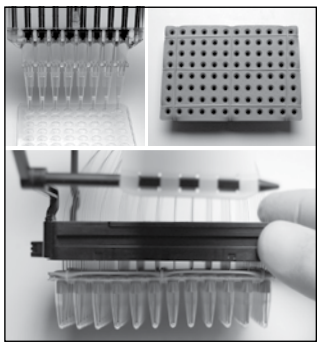


FIG. 3
Fill the tray wells with distilled water, insert rubber septa mat, wrap tightly with rubber bands. Insert capillary ends into the assembled WetPack.

BetterBuffer

Proven by core DNA sequencing labs to provide accurate reads.

BetterBuffer 5:1 dilution/enhance buffer is not your typical 5X BigDye™ dilution buffer. BetterBuffer contains enzyme activity, which gives longer, stronger sequencing reads.

Add 5µl BetterBuffer + 1µl BigDye™ in 15µl reaction volume (scale accordingly)

- Strong signal, clean sequences
- 5 to 1 dilution
- Enhances primer/template binding
- Increases polymerase performance
- For use with models 310, 3100, 3130, 3700 and 3730 sequencers
- Optimized for BigDye™ chemistry

Protocol on page 45

CAT# DAF-5 - 5 x 0.3 ml tubes	**$242**
CAT# DAF-10 - 10 x 0.3 ml tubes	**$386**
CAT# DAF-25 - 1 x 25 ml tube	**Please inquire**
CAT# DAFBulk-48 - 32 x 1.5 ml tubes	**Please inquire**

10X Genetic Analyzer Buffer w/EDTA

CAT# DAD-025 - ABI310, 25 ml	**$63**
CAT# DAX-025 - ABI3100/3130XL, 25 ml	**$63**
CAT# DAX-01 - ABI3100/3130XL, 1 L	**$153**
CAT# DAB-01 - ABI3730/3730XL, 1 L	**$153**
CAT# DAB-02 - ABI3730/3730XL, 2 L	**$278**

Dynamic Capillary Array Coating

For MegaBACE capillaries

Used as a coating to be injected prior to each run. The dynamic coating yields superior data, avoiding the date loss from degrading statically coated capillaries. Arrays last longer and signal is stronger.

CAT# DEH100 - 100 mls **$206**

MegaBACE 4000

MegaBACE 4000 long read matrix. Includes running buffer.

CAT# MLR4000 - 96 x 1.4 mls **$1600**

ROX Fluorescent Ladder

70-400 bp, 800 assays

ROX ladder, 70 - 400 bp, 800 assays. Fragment sizes: 70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400

Protocol on page 49

CAT# MRK400 **$301**

70-500 bp, 800 assays

ROX ladder, 50 - 500 bp, 800 assays. Fragment sizes: 70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 425, 450, 475, 490, 500

Protocol on page 49

CAT# MRK500 **$301**

50-1000 bp, 800 assays

ROX ladder, 50 - 1000 bp, 800 assays. Fragment sizes: 50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 475, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000

Protocol on page 49

CAT# MRK1000 **$444**

Dye 5 Ladder

The Dye 5 ladders allow a greater number of makers for multiplexing and analysis.

35-500 bp, 800 assays

Dye 5 ladder, standard, 35-500 bp, 800 assays. Fragment sizes: 35, 50, 75, 100, 139, 150, 160, 200, 250, 300, 340, 350, 400, 450, 490, 500. Substitute for LIZ.

CAT# MRL500 **$301**

70-500 bp, 800 assays

Dye 5 ladder, plus, 70-500 bp, 800 assays. Fragment sizes: 70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 425, 450, 475, 490, 500. Substitute for LIZ.

CAT# MRL500-PLUS **$301**

50-1000 bp, 800 assays

Dye 5 ladder, 50 - 1000 bp, 800 assays. The Dye 5 ladders allow a greater number of makers for multiplexing and analysis. Fragment sizes: 50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 475, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000. Substitute for LIZ.

CAT# MRL1000 **$444**

Clear Heat Sealing Film
Optically clear

Clear heat sealing film, 370 meter roll. Compatible with Abgene ALPS 300 automated heat sealer.

CAT# GC3730 - Piercable
(for use with Applied Biosystems automated genetic analyzers) **$613**

CAT# GC3799 - Peelable **$630**

Clear Heat Sealing Film Perforated
Optically clear

Clear heat sealing film, perforated. Compatible with all manual heat sealers. 115mm x 83mm sheets, 2400 sheets per roll

CAT# GC3730P - Piercable, perforated
(for use with Applied Biosystems genetic analyzers and other piercable systems) **$635**

CAT# GC3799P - Peelable , perforated **$635**

AlumaSeal II
Aluminum film for PCR & cold storage

A 1.5 mil soft non-permeable aluminum foil with strong medical-grade adhesive, AlumaSeal II eliminates the need for heat-sealing devices or mats during thermal cycling. Heat & cold resistant.

- Recommended for temperatures from -80ºC to +120ºC
- Certified DNase-, and RNase-, and nucleic-acid- free
- Easily piercable with single or multichannel pipettors and robotic probes
- Excellent barrier properties, virtually no sample evaporation or drying

AlumaSeal II, Non-Sterile - 100 units
CAT# MAF100 **$73**

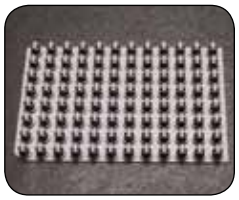
AlumaSeal II, Sterile - 50 units
Packaged in 4ml tamper-evident bags of 25
CAT# MAF110 **$52**

SealingMat
Mat for 384 well sequencing plates & PCR

- Tight fit seal around each well for cycling & storage to -190ºC
- Autoclavable and re-usable
- Piercable silicone rubber

CAT# SEP384-25 - 25 units **$85**

SeptaMat
Mat for sequencing



- Perfect fit for ABI-3100, 3700, 3730 sequencers
- Piercable septa for easy penetration

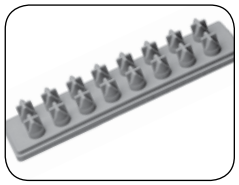
CAT# SEP96-20 - 20 units **$175**

Septa
for 0.5 mL Tubes

Genetic Analyzer Septa for 0.5mL Sample Tubes, for use on the ABI310 Genetic Analyzer.

CAT# SEP05-500 - package of 500 **$131**

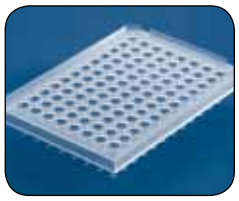
Reservoir Septa
for ABI3100, 3130



Reservoir Septa for ABI3100, 3130 Analyzer and ABI PRISM® 3100 AVANT™ Genetic Analyzer.

CAT# SEP16-20 - package of 20 **$131**

96 well Detection Plate, semi-skirted



- Raised skirt
- Directly compatible with all major thermal cyclers including all ABI instruments
- Can be used directly in ABI 96-well sequencers with no adapters necessary
- Cut-away corner for precise orientation
- Available in opaque black and white for fluorescent and luminescent based procedures

CAT# MAP100C - 25 units, clear **$80**

GIBCO-BRL V-16

Combs

CGV10-075	10 lane, 0.75mm thick	$41
CGV10-100	10 lane, 1.00mm thick	$41
CGV10-150	10 lane, 1.50mm thick	$41
CGV12-075	12 lane, 0.75mm thick	$41
CGV12-100	12 lane, 1.00mm thick	$41
CGV12-150	12 lane, 1.50mm thick	$41
CGV20-150	20 lane, 1.50mm thick	$51

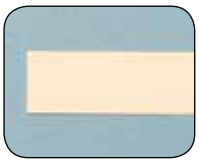
Plates

GGV20L-5	Long plate, pack of 5	$110
GGV20S-5	Short plate, pack of 5	$110

Spacers

SGV18-075	18cm, 0.75mm thick, 1 set	$36
SGV18-100	18cm, 1.00mm thick, 1 set	$36
SGV18-150	18cm, 1.50mm thick, 1 set	$36

GIBCO-BRL S2 & S2001




Combs - Well Forming

CGW30-035	30 wells, 9.1 mm deep, 0.35 mm thick, 9.7 mm pt-to-pt	$63
CGW48-035	48 wells, 9.0 mm deep, 0.35 mm thick, 6.04 mm pt-to-pt	$63
CGW64-035	64 wells, 9.1 mm deep, 0.35 mm thick, 4.5 mm pt-to-pt	$63
CGW96-035	96 wells, 9.1 mm deep, 0.35 mm thick, 3.0 mm pt-to-pt	$63
CGWPREP	1.5 mm thick. For S2 gel boxes	$63

Combs - Sharkstooth

CMH101-035	101 wells, 1.0 cm deep, 0.35 mm thick, 3.0 mm pt-to-pt	$41
CMH67-035	67 wells, 1.0 cm deep, 0.35 mm thick, 4.5 mm pt-to-pt	$41
CMS33-035	33 wells, 1.0 cm deep, 0.35 mm thick, 4.5 mm pt-to-pt	$25
CMS67-035	67 wells, 1.0 cm deep, 0.35 mm thick, 2.25 mm pt-to-pt	$31

More thicknesses and sizes available for Gibco-BRL's Well Forming and Sharkstooth combs online.

Visit www.gelcompany.com

GIBCO-BRL S2 & S2001

Plates *Optically Clear for Laser or Fluorescent Scanners*

GGO33B	Short and long plates, 5 sets	$608
GGO33L	41.9 x 33.3 cm long plate (5)	$306
GGO33S	39.4 x 33.3 cm short plate (5)	$306

Plates

GGR33B-5S	Short and long plates, 5 sets	$265
GGR33L-5	41.9 x 33.3 cm long plate (5)	$133
GGR33S-5	39.4 x 33.3 cm short plate (5)	$133

Spacers

SGR36-025	35.8 cm vinyl, 0.25 mm thick, 1 set, 12 foam blocks included	$31
SGR36-035	35.8 cm vinyl, 0.35 mm thick, 1 set, 12 foam blocks included	$31
SGR36-040	35.8 cm vinyl, 0.4 mm thick, 1 set, 12 foam blocks included	$31
SGR42-025	41.8 cm vinyl, 0.25 mm thick, 1 set, 12 foam blocks included	$31
SGR42-035	41.8 cm vinyl, 0.35 mm thick, 1 set, 12 foam blocks included	$31
SGR42-040	41.8 cm vinyl, 0.4 mm thick, 1 set, 12 foam blocks included	$31
SGR42-080	41.8 cm COEX, 0.8mm thick, 1 set, 12 foam blocks included	$31
SGR42-100	41.8 cm COEX, 1.0 mm thick, 1 set, 12 foam blocks included	$31
SGR47-025	47cm Mylar, 0.25 mm thick, 1 set, 12 foam blocks included	$31
SGR47-035	47 cm Mylar, 0.35 mm thick, 1 set, 12 foam blocks included	$31
SGR47-040	47 cm vinyl, 0.4 mm thick, 1 set, 12 foam blocks included	$31
SGR47-041	Black spacers for laser scanning, 0.4 mm thick, 1 set	$36
SGR47-080	47cm COEX, 0.8 mm thick, 1 set, 12 foam blocks included	$31
SGR47-100	47cm COEX, 1.0mm thick, 1 set, 12 foam blocks included	$31

Accessories

MAF1	Gel Sealing Tape, 1" x 72 yards, yellow mylar	$47
MAF15	Gel Sealing Tape, 1.5" x 72 yards, yellow mylar	$47
MJA200-08	Stainless Steel Clips, 2", large (8) - Binder type	$42
MJK-090	Plate Doctor 90 mLs, solution & cloth	$33
MJK-360	Plate Doctor 360 mLs, solution & cloth	$111

GIBCO-BRL SA47

Plates

GGO47B-030-5S	Short and long plates, 3 mm thick, 5 sets	$594
GGO47B-050-5S	Short and long plates, 5 mm thick, 5 sets	$594
GGO47L-030-5	20 x 45cm long plate, 3 mm thick (5)	$296
GGO47L-050-5	20 x 45 cm long plate, 5 mm thick (5)	$296
GGO47S-030-5	20 x 47cm short plate, 3 mm thick (5)	$296
GGO47S-050-5	20 x 47 cm short plate, 5 mm thick (5)	$296
GGR20B-5S	Short and long plates, 5 sets	$265
GGR20L-5	36.2 x 19.7 cm long plate (5)	$133
GGR20S-5	33.8 x 19.7 cm short plate (5)	$133
GGR47L-5	20 x 45 cm long plate (5)	$133

Spacers

SGR47-025	47cm Mylar, 0.25 mm thick, 1 set, 12 foam blocks included	$31
SGR47-035	47 cm Mylar, 0.35 mm thick, 1 set, 12 foam blocks included	$31
SGR47-040	47 cm vinyl, 0.4 mm thick, 1 set, 12 foam blocks included	$31
SGR47-041	Black spacers for laser scanning, 0.4 mm thick, 1 set	$36
SGR47-080	47cm COEX, 0.8 mm thick, 1 set, 12 foam blocks included	$31
SGR47-100	47cm COEX, 1.0mm thick, 1 set, 12 foam blocks included	$31

OWL A1 EXPRESSCAST™ LARGE GEL SYSTEM

Unit

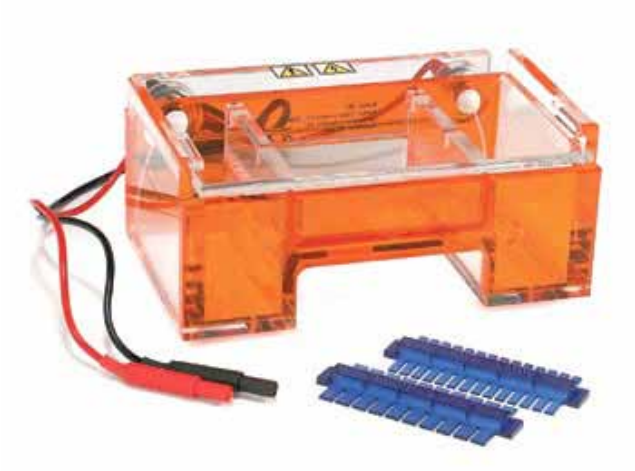
A1-G-100	A1 ExpressCast™ Large Gel System w/1.0 mm thick combs	$651
A1-G-150	A1 ExpressCast™ Large Gel System w/1.5 mm thick combs	$651

Combs

A1-G-12-100	Comb 1.0 mm thick, 12 tooth	$53
A1-G-12-150	Comb 1.5 mm thick, 12 tooth	$53
A1-G-14M-100	1X Microtiter Comb, 1.0 mm thick 14 tooth	$53
A1-G-14M-150	1X Microtiter Comb, 1.5 mm thick 14 tooth	$53
A1-G-16-100	Comb 1.0 mm thick, 16 tooth	$53
A1-G-16-150	Comb 1.5 mm thick, 16 tooth	$53
A1-G-20-100	Comb 1.0 mm thick, 20 tooth	$53
A1-G-20-150	Comb 1.5 mm thick, 20 tooth	$53
A1-G-24-100	Comb 1.0 mm thick, 24 tooth	$53
A1-G-24-150	Comb 1.5 mm thick, 24 tooth	$53
A1-G-28M-100	2X Microtiter Comb, 1.0 mm thick 28 tooth	$53
A1-G-28M-150	2X Microtiter Comb, 1.5 mm thick 28 tooth	$53
A1-G-8-100	Comb 1.0 mm thick, 8 tooth	$53
A1-G-8-150	Comb 1.5 mm thick, 8 tooth	$53
A1-G-PREP-150	Preparative Comb 1.5 mm thick	$53
A1-G-WALL-150	Wall Comb 1.5 mm thick	$53

Accessories

A1-G-EG-02	End Gates, Set of (2) includes gasket	$55
A1-G-GK	Replacement Gasket, set of (2)	$13
A1-G-UVT	Expresscast™ UVT Gel Tray 13cm x 25cm gel size	$144



B1 RAPIDCAST™ MINI GEL SYSTEM

Unit

B1-G-100	B1 RapidCast™ Mini Gel System w/1.0 mm thick combs	$434
B1-G-150	B1 RapidCast™ Mini Gel System w/1.5 mm thick combs	$434

Combs

B1-G-10-100	Comb 1.0 mm thick, 10 tooth	$42
B1-G-10-150	Comb 1.5 mm thick, 10 tooth	$42
B1-G-12-100	Comb 1.0 mm thick, 12 tooth	$42
B1-G-12-150	Comb 1.5 mm thick, 12 tooth	$42
B1-G-14-100	Comb 1.0mm thick, 14 tooth	$42
B1-G-14-150	Comb 1.5 mm thick, 14 tooth	$42
B1-G-5-100	Comb 1.0mm thick, 5 tooth	$42
B1-G-5-150	Comb 1.5 mm thick, 5 tooth	$42
B1-G-8-100	Comb 1.0mm thick, 8 tooth	$42
B1-G-8-150	Comb 1.5 mm thick, 8 tooth	$42
B1-G-PREP	Preparative Comb, 1.5 mm thick	$42
B1-G-RL-18-100	2X Microtiter format Comb 1.0 mm thick, 18 tooth	$42
B1-G-RL-18-100	2X Microtiter format Comb 1.5 mm thick, 18 tooth	$42
B1-G-RL-9-100	1X Microtiter format Comb 1.0 mm thick, 9 tooth	$42
B1-G-RL-9-100	1X Microtiter format Comb 1.5 mm thick, 9 tooth	$42

B1A RAPIDCAST™ MINI GEL SYSTEM

Unit

B1A-G-100	B1A RapidCast™ Mini Gel System w/1.0 mm thick combs	$374
B1A-G-150	B1A RapidCast™ Mini Gel System w/1.5 mm thick combs	$374

Combs

B1A-G-10-100	Comb, 1.0 mm thick, 10 tooth	$38
B1A-G-10-150	Comb, 1.5 mm thick, 10 tooth	$38
B1A-G-12-100	Comb, 1.0 mm thick, 12 tooth	$38
B1A-G-12-150	Comb, 1.5 mm thick, 12 tooth	$38
B1A-G-5-100	Comb, 1.0mm thick, 5 tooth	$38
B1A-G-5-150	Comb, 1.5 mm thick, 5 tooth	$38
B1A-G-6-100	Comb, 1.0mm thick, 6 tooth	$38
B1A-G-6-150	Comb, 1.5 mm thick, 6 tooth	$38
B1A-G-8-100	Comb, 1.0mm thick, 8 tooth	$38
B1A-G-8-150	Comb, 1.5 mm thick, 8 tooth	$38
B1A-G-PREP	Preparative Comb, 1.5 mm thick	$38

Accessories

B1A-G-CST	Multiple Casting Chamber	$48
B1A-G-GK	Replacement Gasket, set of (2)	$12
B1A-G-UVT	Gasketed UVT gel tray, 7cm x 8 cm	$48

ALSO AVAILABLE FOR OWL SCIENTIFIC:

B2-B3 Mini Gel accessories • P8DS Vertical Gel System and accessories • Electroblotters

VISIT OUR WEBSITE OR CALL US FOR MORE INFORMATION

Electroporation Cuvettes

Maximize molecular electroporation and electrofusion efficiencies. Designed for Bacteria, Yeast, Insect, Plant and Mammalian cells. Each batch of cuvettes are quality tested for optimal and reproducible impedance measurements. Compatible with Bio-Rad®'s - GenePulser®/MicroPulser Cuvettes and most electroporation systems. Cap design enables improved aseptic handling techniques, while the lip and positive seal reduces possible contamination. All 1 mm and 2 mm cuvettes have tapered V bottom to minimize dead volumes. Sterile.

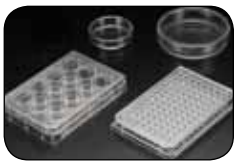
Short Electrodes

CAT# EPC001-50 - 1mm gap, 50 units **$131**
CAT# EPC002-50 - 2mm gap, 50 units **$131**

Long Electrodes

CAT# EPC101-50 - 1mm gap, 50 units **$131**
CAT# EPC102-50 - 2mm gap, 50 units **$131**
CAT# EPC104-50 - 4mm gap, 50 units **$131**

Lipidure®-Coat



Lipidure®-Coat is an ultra low binding biomimetic MPC polymer. This coating has been applied to standard cell culture dishes to create a surface similar to a human cell membrane to create spheroid bodies in solution. The polymer coating resists surface binding by cells or proteins.

Lipidure®-Coat Dish

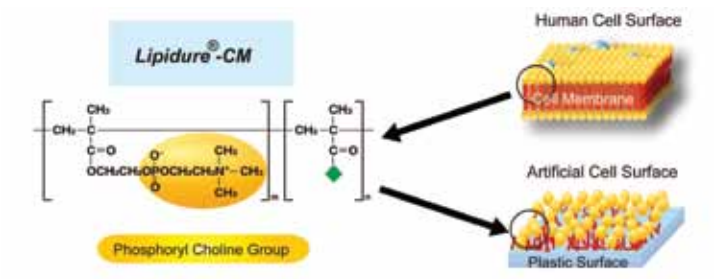
CAT# LCD60 - 60mm, 20 units **$74**
CAT# LCD90 - 90mm, 20 units **$111**

Lipidure®-Coat Multi-Dish

CAT# LCMD06 - 6 wells, 7 units **$74**
CAT# LCMD12 - 12 wells, 7 units **$74**
CAT# LCMD24 - 24 wells, 7 units **$74**

Lipidure®-Coat Plate

CAT# LCU96 - 96 well U-bottom, 7 units **$74**
CAT# LCV96 - 96 well V-bottom, 7 units **$74**



AeraSeal

Film for cell & tissue culture

Porous film with medical-grade adhesive for sealing tissue culture plates, bio-blocks, and 96-well plates where air and gas exchange are necessary for cell growth or bacterial cultivation, AeraSeal films minimize well-to-well cross-contamination, sample spillage and evaporation.

- Non-cytotoxic, highly gas permeable
- Easily piercable with pipette tips or pipettes for sample recovery
- Recommended for temperatures from -20ºC to +80ºC

AeraSeal, Non-Sterile - 100 units

CAT# MAF700 **$73**

AeraSeal, Sterile - 50 units

CAT# MAF710 **$52**

LavaCell

Fluorescent live cell imaging stain

LavaCell™ is a new fluorescent cell stain that provides the simple solution to intracellular imaging of live and fixed cells. LavaCell™ is based on epicocconone, a water soluble, uncharged, low molecular weight fluorophore that readily permeates cells. Epicocconone only becomes fluorescent on entry to cells enabling staining without permeabilisation or washing steps.

Benefits

Ideal for imaging live cells:

- LavaCell™ is non-toxic and does not affect the growth rate of animal, fungal or bacterial cells
- Cells spontaneously stain with LavaCell™ without pre-treatments
- Cells are imaged without washing steps

Staining is simple

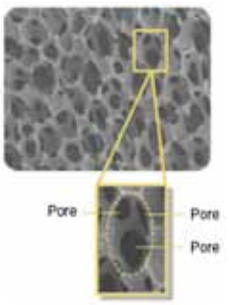
- Live and fixed cells readily take-up LavaCell™
- LavaCell™ becomes fluorescent only on entry into the cell

Ideal for multiplex applications:

- Cells stained with LavaCell™ can be multiplexed with other fluorescent stains using a single light source
- LavaCell™ fluoresces orange when excited by violet, blue or green light making it compatible with light sources used on standard instruments.

CAT# LC011001 - 200 µL **$207**
CAT# LC011002 - 1 mL **$731**

Biomerix 3D Scaffold™



The Biomerix 3D Scaffold™ is designed to mimic the nature and function of the extracellular matrix (ECM) for stem cell research and therapeutic applications in regenerative medicine.
US Patent 7,803,395

Chemical Formulation
- Polycarbonate polyurethane-urea thermoset chemistry

Fully Reticulated 3D Morphology
- Interconnected 3D network of cells and pores
- Open-cell, porous structure with void content of >90%

Demonstrated Biocompatibility with Multiple FDA Clearances
- Full panel of ISO 10993 biocompatibility testing completed
- Three U.S. FDA Clearances in soft tissue repair, orthopedics, and vascular applications

Ideal Platform for Stem Cell Therapy & Regenerative Medicine
- Applications in drug discovery, tissue engineering, and cell banking
- Compatible with Hematopoetic (HSC), Mesenchymal (MSC), Human Embryonic (hESC), and Induced Pluripotent Stem Cells (iPS)

Protocol on page 45

CAT# B3DS-0502
5mm diameter x 2mm thick, 25 disks **$122**

Study Highlights

A Novel Flow-Perfusion Bioreactor Supports 3D Dynamic Cell Culture

Stephen M. Warren, M.D., New York University Medical Center, NY

Murine preosteoblastic cells were seeded onto large Biomerix 3D Scaffold discs (24 x 6 mm) and loaded into a custom flow-perfusion bioreactor. Viable cellular density and metabolic activity were successfully demonstrated through eight days in-vitro.[1]

Result: The Biomerix 3D Scaffold may support prefabrication of biological constructs large enough to solve clinical problems.

Ectopic Human Mesenchymal Stem Cell-Coated Scaffolds in NOD/SCID Mice: An In Vivo Model of the Leukemia Niche

Sarah Vaiselbuh, M.D., The Feinstein Institute for Medical Research, NY

Human mesenchymal stem cells were seeded onto Biomerix 3D Scaffold constructs and implanted in NOD/SCID mice. Histological analysis at eight weeks showed that the scaffold successfully supported creation of an ectopic human bone marrow microenvironment. Implanted scaffolds were then inoculated with acute myeloid leukemia cells. Histological analysis at five months demonstrated that the in-vivo stromal microenvironment supported leukemic hematopoiesis. Finally, a known leukemia antagonist, AMD3100, was shown to disrupt formation of subcutaneous leukemic tumors.[2]

Result: The Biomerix 3D Scaffold provides an excellent platform to create in-vivo disease models that can be used for targeted drug discovery.

Use of the Biomerix 3D Scaffold to Enable Creation of a Bone Marrow Hematopoietic Niche

Daniel Kraft, M.D., Stanford University, CA

Murine bone marrow cells were isolated and suspended within Biomerix 3D Scaffold constructs and implanted into the renal capsule of GFP+ transgenic mice. Donor cells were tracked in-vivo for eight months. Biorix 3D Scaffold allowed transplanted hematopoietic stem cells to establish and expand, and formed an osteogenic niche from the fetal cells.

Results: The Biomerix 3D Scaffold is an excellent platform for bone marrow niche formation and expansion of hematopoetic stem cells.

Creation of a Bioartificial Niche for the Expansion of Umbilical Cord Blood Stem Cells in a Rotating Bioreactor

Stephen Navran, Ph.D., Synthecon Inc., TX

Bone marrow stromal cells (MSC) were cultured on Biomerix 3D Scaffold discs in a rotary cell culture system (Synthecon, TX). Umbilical Cord Blood (UCB) cells introduced into the bioreactor homed to the stroma/scaffold niche and were maintained for two weeks.

Results: The Biomerix 3D Scaffold can create a bioartificial niche for the expansion of rare UCB stem cells.

Culturing of Meniscal Fibrochondrocytes on Coated Biomerix 3D Scaffold Constructs

Daniel Grande, Ph.D., The Feinstein Institute for Medical Research, NY

Meniscal fibrochondrocytes were seeded onto Biomerix 3D Scaffold discs coated with either fibronectin or collagen gel and successfully maintained in static culture for up to 28 days. The scaffold supported deposition of ECM with high collagen content within the pore structure; meniscal cells retained their desired rounded morphology.

Result: The Biomerix 3D Scaffold supports fibrochondrocyte adhesion and proliferation and demonstrates potential as a scaffold for tissue engineering.

Culturing of Human Adipose-Derived Stem Cells on Uncoated and Coated Biomerix 3D Scaffold Constructs

Peter Rubin, M.D., University of Pittsburgh, PA

Human adipose derived stem cells (ASCs) were seeded onto Biomerix 3D Scaffold discs both with and without fibronectin coating. Robust attachment of human ASCs was demonstrated on the Biomerix 3D Scaffold both with and without fibronectin coating for 72 hours in static culture.

Result: The Biomerix 3D Scaffold supports human ASC attachment and proliferation and demonstrates potential as a scaffold for tissue engineering.

[1]Sailon AM et. al. *A novel flow-perfusion bioreactor supports 3D dynamic cell culture.* J Biomed Biotechnol. 2009;2009;873816. Epub 2009 Dec 9.

[2]Vaiselbuh SR et. al. *Ectopic Human Mesenchymal Stem Cell-Coated Scaffolds in NOD/SCID Mice: An In Vivo Model of the Leukemia Niche.* Tissue Eng Part C Methods. Epub 2010 Jun 29.

ArraySlide
For multiple assays

The ArraySlide sections into individual surfaces for multiple simultaneous protein, gene expression or screening analysis studies. Unlike other systems, this device utilizes a compression fit gasket, eliminating the presence of contaminating adhesives. The printing surfaces are positioned 9mm apart for easy loading by multi-channel pipettes or automated robots.

The chamber itself is made from a durable, flat, precision machined aluminum to ensure proper slide alignment and leak-free arrays. The top chamber face is embossed with a letter and number panel for easy identification of each subarray. All units include lower carrier tray, upper structure plate, slide(s) or plate, printing template and gasket (patent pending). Units with round openings accomodate septamats (included in assembly).

NEW
High Volume ArraySlide 16-4

The High Volume 16 x 4 ArraySlide allows customizable hybridization experiments for ELISA, microarray, and cell culture applications. Optically clear glass substrates allow for superior imaging and customized printing to meet the most demanding needs. Dilute hybridization solutions can yield excellent results since each well can hold up to a 1mL volume.

The chamber holds up to four slides and uses non-adhesive compression gaskets. Chemical compatibility and optical clarity are achieved without adding interfering adhesive compounds. The chamber can be washed and autoclaved for re-use. 64 (7 x 7mm) printing surfaces with square openings.

High Volume ArraySlide 16-4

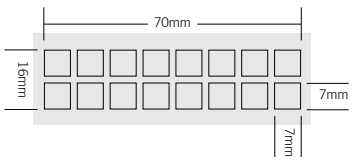
CAT# AHS16-4-HV **$501**

16 Assays
on ONE slide

ArraySlide 16
- 16 (7 x 7mm) printing surfaces
- Square openings

CAT# AHF16 **$264**

AHF16, *Gasket*
NOT TO SCALE

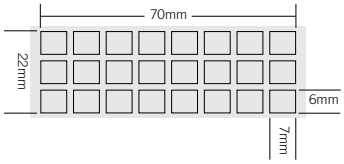


24 Assays
on ONE slide

ArraySlide 24
- 24 (6 x 7mm) printing surfaces
- Square openings

CAT# AHS24 **$264**

AHS24, *Gasket*
NOT TO SCALE



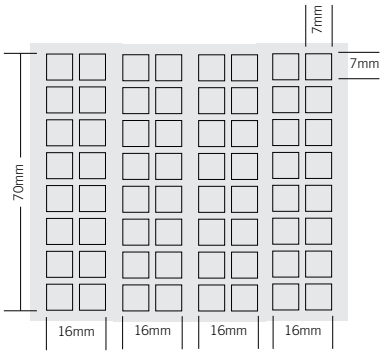
16 Assays
on FOUR slides

ArraySlide 16-4

- 64 (7 x 7mm) printing surfaces
- Square openings

CAT# AHS16-4 **$501**

AHS16-4, *Gasket*
NOT TO SCALE



24 Assays
on FOUR slides

ArraySlide 24-4

Square openings

- 96 (6 x 7mm) printing surfaces

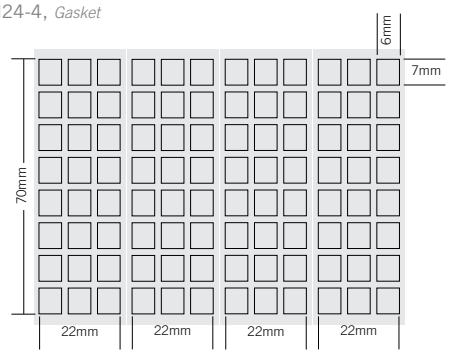
CAT# AHS24-4 **$501**

Round openings

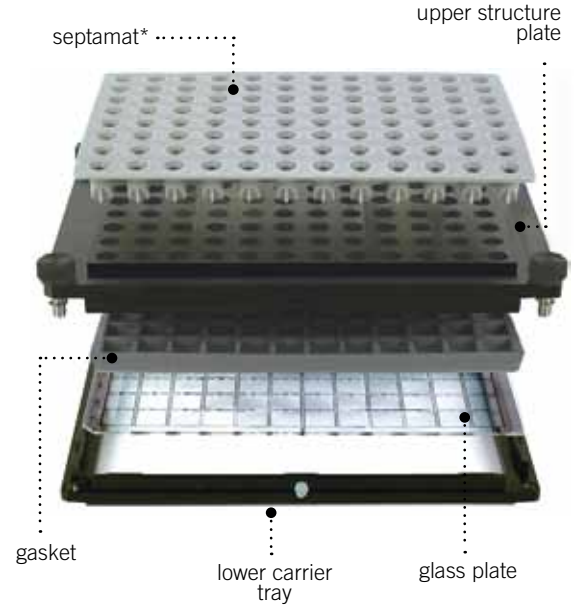
- 96 (6 x 7mm) printing surfaces
- Accommodates septamat

CAT# AHM24-4 **$501**

AHS24-4 & AHM24-4, *Gasket*
NOT TO SCALE



AHT96-01, *full assembly*



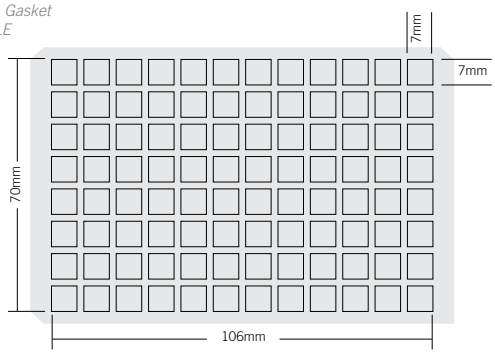
* Only units with round openings will accommodate septamats

ArrayPlate 96

- 96 (7 x 7mm) printing surfaces
- Round openings
- Accommodates septamat

CAT# AHT96-01 **$454**

AHT96-01, *Gasket*
NOT TO SCALE



Accessories for ArraySlide

ArraySlide 16

ArraySlide 16-4

ArraySlide 24

ArraySlide 24-4

ArrayPlate 96

ArraySlide 16 & ArraySlide 16-4

Gasket	CAT# AUA16	$18
Glass Slide, uncoated	CAT# GEP31-12, 12/pk	$27
Glass Slide, epoxy coated	CAT# AEP16-05, 5/pk	$105

ArraySlide 24 & ArraySlide 24-4

Gasket, for CAT# AHS24	CAT# AUA24	$22
Gasket, for CAT# AHS24-4	CAT# AUA24-4S	$141
Gasket CAT# AHM24-4	CAT# AUA24-4M	$141
Glass Slide, uncoated	CAT# GEP31-12, 12/pk	$27
Glass Slide, epoxy coated	CAT# AEP24-05, 5/pk	$110
24 Septa Mat	CAT# SEP24-4, 4/pk	$47
96 Septa Mat	CAT# SEP96-20, 20/pk	$175

ArrayPlate 96

Gasket	CAT# AUA96	$147
Glass Plate, uncoated	CAT# GEP96-1	$34
Glass Plate, epoxy coated	CAT# AEP96-05, 5/pk	$394
96 Septa Mat	CAT# SEP96-20, 20/pk	$175

SlideImprinter

Innovative slide formatting

The SlideImprinter is a much more effective and productive way to partition slides used in laboratory and microarray analysis.

This instrument is ideal for high throughput screening where multiple assays need to be run on a single examination slide with minimal risk of contamination between assays.

The SlideImprinter provides a convenient way to define multiple “wells” on a single microscope slide to create separated region for sampling. This is done through imprinting a thin, inert, hydrophobic film line onto the surface of a slide through the use of a designed “stamp”.

See page 11 for more information.

US Patent 11/288,588

SlideImprinter

CAT# WSP10-1 - 10 Wells	**$3343**
CAT# WSP12-1 - 12 Wells	**$3343**
CAT# WSP16-1 - 16 Wells	**$3343**
CAT# WSP48-1 - 48 Wells	**$3343**
CAT# WSP60-1 - 60 Wells	**$3343**
CAT# WSP192-1 - 192 Wells	**$3343**

Custom Design

CAT# CUST-1	**$3352**

ArrayMix

Array hybridization instrument

The ArrayMix can hold 1-4 microscope slides contained within 16-24 well sectioning chambers (sold seperately) for a total of up to 96 arrays.

Each slide makes direct contact with a thermal block to maintain accurate temperature control from 15ºC - 90ºC, with a tolerance of 0.1ºC. Each of the three slides sits on an orbital shaker and orbit around a small radius at an adjustable speed, from a low of 300 revolutions per minute to a maximum of 900 revolutions per minute. The orbital shaking allows for use of low concentration or dilute targets in hybridization, which saves money when using expensive peptides or antibodies for array experiments.

See page 9 for more information.

ArrayMix 48 *Holds ArraySlide 16 (sold separately)*

CAT# AM16-3 - Unit **$2115**

ArrayMix 64 *Holds ArraySlide 16-4 (sold separately)*

CAT# AM16-4 - Unit **$2115**

ArrayMix 96 *Holds ArraySlide 24-4 (sold separately)*

CAT# AM24-4 - Unit **$2115**

ArrayMix 96Plate *Holds ArrayPlate (sold separately)*

CAT# AM96-P - Unit **$2115**

NEON Pipettes

Available in 5 flavors

- Bright colors
- Accepts universal standard tips
- Contoured finger holds
- Easy turn volume adjustment from 2 places
- Lightweight (under 3oz.)

Green P2

0.1µl to 2.0µl adjustable volume precision: ±5% @ 2µl

QDLP02 - standard length pipette	**$116**
QDSP02 - mini pipette	**$116**
TP02-R - 10 racks of 96 tips	**$36**
TP02BULK - 1000 tips	**$16**

Pink P10

1µl to 20µl adjustable volume precision: ±1% @ 10µl, ±2.5% @ 2µl

QDLP10 - standard length pipette	**$116**
QDSP10 - mini pipette	**$116**
TP10-R - 10 racks of 96 tips	**$36**
TP10BULK - 1000 tips	**$16**

Purple P20

0.1µl to 20µl adjustable volume precision: ±1% @ 20µl, ±5% @ 2µl

QDLP20 - standard length pipette	**$116**
QDSP20 - mini pipette	**$116**
TP20Y-R - 10 racks of 96 tips	**$36**
TP20YBULK - 1000 tips	**$16**

Orange P200

10µl to 200µl adjustable volume precision: ±0.8% @ 200µl, ±2.5% @ 20µl

QDLP200 - standard length pipette	**$116**
QDSP200 - mini pipette	**$116**
TP200Y-R - 10 racks of 96 tips	**$36**
TP200YBULK - 1000 tips	**$16**

Blue P1000

100µl to 1000µl adjustable volume precision: ±0.8% @ 1000µl, ±3% @ 200µl

QDLP1000 - standard length pipette	**$116**
QDSP1000 - mini pipette	**$116**
TP1000B-R - 10 racks of 96 tips	**$36**
TP1000BULK - 1000 tips	**$16**

Set of all FIVE pipettors

QDLPSET - standard length pipettors	**$450**
QDSPSET - mini pipettors	**$450**

ThermoMix 500

Temperature controlled mixing

Digitally controlled Peltier heater and cooler (6ºC - 105ºC) orbital mixer (300 -1500 rpm) for cell killing assays, RNA transcription, immunoprecipitation, enzyme kinetics, ligations, and more. Interchangable sample blocks for plates or tubes.

- Digitally controlled Peltier heating and cooling
- Small radius orbital mixing
- Agitates up to 1500 rpm
- Insular damping for quiet operation
- Interchangeable sample blocks for plates or tubes
- Large display / friendly user interface
- Conforms to CE safety standard

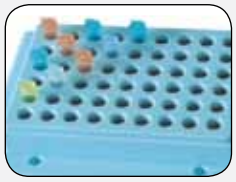
Applications:

- Cell Killing Assays
- Immunoprecipitation Kinase Assays
- Enzyme Digestions and Ligations
- RNA Transcription Assays
- Sample incubation and Reaction
- Enzyme Kinetics

CAT# THM500 **$2017**

Sample Blocks

Block A
1.5ml x 40



Block B
0.5ml x 54

Block C
0.2ml x 96

Block D
15mm x 24

Block A - 1.5ml x 40
CAT# TMB-A **$444**

Block B - 0.5ml x 54
CAT# TMB-B **$444**

Block C - 0.2ml x 96
CAT# TMB-C **$444**

Block D - 15mm x 24
CAT# TMB-D **$444**

Block E - 115 x 73 x 38mm
CAT# TMB-E **$444**

Block G - combo 0.5ml x 26 & 1.5ml x 26
CAT# TMB-G **$444**

Block H - 0.2ml x 40
CAT# TMB-H **$444**

Block J - 96 well ELISA plate
CAT# TMB-J **$444**

3D Scaffold

Part Number: **B3DS**
Storage: **Store material in a cool, dry, dark place. Minimize exposure to UV light. Material should not be subject to temperatures exceeding 150 ºC.**

- Soak or gently stir Biomerix 3D Scaffolds in 70/30 isopropyl alcohol/water mixture for 20 minutes. Ensure that the scaffolds are fully immersed in the IPA/water mixture.
- Remove the scaffolds from the mixture and squeeze the scaffolds by using a spatula to remove the majority of the mixture.
- Air dry scaffolds, preferably in sterile culture hood, for 3-5 minutes.
- Transfer the scaffolds into standard phosphate buffer solution. Ensure that scaffolds are fully immersed in buffer solution and soak or gently stir 10 minutes. Repeat the buffer wash process three times, using fresh buffer solution each time and squeezing scaf folds with a spatula between successive buffer treatment processes.
- Transfer the scaffolds to cell culture media.

Agarose Tablets

Part Number: **AGT05-100**
Storage: **Cool, dry place**

Preparation for Use:
Prior to heating, Agarose Tablets require a 3 minute incubation at room temperature in buffer*. This incubation step softens and then dissolves the agarose tablet in the buffer. Once dissolved, proceed as normal, and heat the agarose solution preferably using a microwave. All other parameters are as same as using the agarose in the powder form. (*The time needed to dissolve the tablet is dependent on the laboratory temperature. Please, do not microwave the tablet in the buffer immediately, as this will cause the formation of smaller insoluble pellets. The room-temperature incubation step, prior to heating, is important to achieve a homogeneous mix). Approximate volume of buffer and number of Tablets needed to achieve the stated gel strength:

	1 Tablet	2 Tablets	3 Tablets
0.70%	71ml	143ml	214ml
0.80%	63ml	125ml	188ml
1.00%	50ml	100ml	150ml
1.20%	42ml	83ml	125ml
1.30%	38ml	77ml	115ml
1.50%	33ml	67ml	100ml

Amber DNA Fluorescent DNA Stain

Part Number: **AMD-1000**
Storage: **Store at room temperature or at 4°C up to 12 months. For longer periods, store at -20°C. Amber DNA Dye is light sensitive and should be stored protected from light.**

- Vortex Amber DNA for 10 seconds prior to use.
- Dilute 1 part Amber DNA with 5 parts DNA sample and mix. Note: Amber DNA must be added to DNA markers in order to visualize the ladder bands simultaneously with the sample after electrophoresis.
- Load sample and run according to standard procedures.
- After the electrophoresis, remove gel and place on UV or a visible-light transilluminator to immediately visualize bands.
- Gels can be post-stained with Ethidium Bromide if desired.

BetterBuffer

Part Number: **DAF**
Storage: **Store @ -20ºC**

- Dilute the ABI BigDye® Mix with BetterBuffer to achieve the desired concentration*
- Mix by pipetting
- Sequence according to protocol
- Remove excess dye

*1 in 6, 1 in 12, 1 in 15 or higher. The choice of dilution is dependent on size, quantity and quality of the DNA template.

CleanSeq

Part Number: **DCU**
Storage: **Store at room temperature**

- Add 240 µl of Sequencing Binding Buffer to 5-20 µl of sequencing reaction.
- Transfer mixture to a provided IB Column in a Collection Tube.
- Centrifuge at 13,000 rpm (15,000 - 16,000 x g) for 30 seconds.
- Add 300 µl Sequencing Wash Buffer to the column. Centrifuge at 13,000 rpm (15,000 - 16,000 x g) for 30 seconds.
- Place Column into a new 1.5 ml tube. Add 6-20 µl of Squencing Elution Buffer, water of ≤20% HiDi Formamide firectly to the column matrix and spin for seconds to elute the DNA.

CleanSpin

Part Number: **DRK**
Storage: **Store at room temperature**

Spin Colum Format

- Add 3 volumes of ADB Buffer to each volume of gel.
- Incubate at 55 ºC for 5-10 minutes (do not incubate above 60 ºC).
- Add the melted agarose solution into a CleanSpin Column and place it into a Collection Tube.
- Centrifuge for 30 seconds. Empty collection tube when necessary.
- Add 200 µl of Wash Buffer to the column and centrifuge for 30 seconds. Repeat the wash step
- Place the CleanSpin Column into a new 1.5 ml tube. Add 6-10 µl of water directly to the column matrix and spin to elute the DNA.

96 Well Format

- Excise the DNA fragment from an agarose gel and transfer it into a well of the provided Collection Plate. Note: The amount of agarose excised from the gel should be as small as possible and should not exceed 150 µl (150 mg) per well.
- Add 3 volumes of ADB Buffer to each volume of agarose excised from the gel.
- Incubate at 37-55°C for 10-15 minutes until the gel slices are completely dissolved.
- Transfer the melted agarose solutions to the wells of the CleanSpin 96 Well Plate on the empty Collection Plate used in Step 1 (above).
- Centrifuge at ≥ 3,000 x g (5,000 x g max.) for 5 minutes until the sample mixtures have been completely filtered. Discard the flow-through in the Collection Plate.
- Add 300 µl Wash Buffer to each well of the CleanSpin 96 Well Plate. Centrifuge at ≥ 3000 x g for 5 minutes. Repeat wash step, but centrifuge for 15 minutes.
- Add ≥ 15 µl water directly to the column matrix in each well. Transfer the CleanSpin 96 Well Plate onto an Elution Plate and centrifuge at ≥ 3000 x g for 3 minutes to elute the DNA.

DNAmite® Kits

Bacterial Kit

Part Number: **2BPK-100**
Storage: **Store at room temperature & at -20°C**

Before you start:

- Prepare 60°C waterbath.
- If precipitate has formed in Solution LA incubate the tube/bottle at 60°C until the solution becomes clear.
- Thaw Proteinase K and RNase A at room temperature.
- Pellet the cells in a microfuge, pour off most of the supernatant and flick or vortex the tube to break up the pellet before continuing.

DNA Extraction

- Add 0.5 ml of Solution LA*.
- Add 10 µl of RNase A solution**.
- Incubate at room temperature for 10 mins.
- Add 20 µl of Proteinase K solution**.
- Place in a water bath and incubate at 60°C for 10 mins.
- Add 30 µl of Solution PA. Vortex briefly or invert the tube to mix (do not place on ice!)
- Spin at 10,000 rpm for 5 minutes in a microfuge. (White precipitate will form)
- Transfer 450 µl of the supernatant into a new tube containing 450 µl of Solution CA, being careful to avoid transferring any debris. Vortex briefly or invert the tube to mix.
- Leave on the bench for 5 minutes.
- Spin in a microfuge at 13,000 rpm for 7 minutes to pellet the DNA.
- Remove the supernatant with a 1 ml pipette.
- Re-spin the tube briefly and remove the dregs.
- Add 50 µl of 10/1 TE (guide only) or Molecular Grade Water.

  NB: The pellet may not be visible

- Leave for 30 minutes (or overnight) to allow the DNA to rehydrate.

TIPS

*Solution LA and RNase A solution can be pooled and added together.
**Refreeze remainder of Proteinase K and RNase A after use.

Tissue Kit

Part Number: **2TK-100**
Storage: **Solution LA, PA, CA - Store at room temperature**
Solution PK - Store at +4ºC

Place 0.5 to 1 cm of fresh or thawed tissue into a round bottom screw top micro-centrifuge tube. (Make sure that the tissue is kept cold prior to the extraction).

- Add 0.5 ml of Solution LA* to the tissue.
- Add 20 µl of Proteinase K solution (20 mg/ml).
- Place on a thermal shaker and incubate (300 rpm) at 65°C for 3 hrs or overnight.
- Add 50 µl of Solution PA. Vortex the sample briefly.
- Spin at 10,000 rpm for 5 minutes in a microfuge. (White precipitate will form)
- Transfer 450 µl of the supernatant into a new tube containing 450 µl of Solution CA, being careful to avoid transferring any debris. Vortex briefly.
- Leave on the bench for 5 minutes.

Plant Kit

Part Number: **2PLK-100**
Storage: **Store at room temperature**

Arabidopsis - Place 1 or 2 inflorescences and/or a few leaves into a 1.5 ml microcentrifuge tube.

Any other plant - Place 1 to 2 cm^2 of leaf material into a 1.5 ml microcentrifuge tube.

DNA Extraction

- Add 1 ml of Solution LA* and grind the leaves with a pestle** . Vortex the sample briefly.
- Add 100 µl of Solution PA. Vortex the sample briefly.
- Spin at 10,000 rpm for 5 minutes in a microfuge.
- Transfer 500 µl of the supernatant into a new tube containing. 500 µl of Solution CA, being careful to avoid transferring any debris. Vortex the sample briefly.
- Leave on the bench for 5 minutes.
- Spin in a microfuge at 13,000 rpm for 7 mins. to pellet the DNA.
- Remove the supernatant with a 1 ml pipette.
- Re-spin the tube briefly and remove the dregs.
- Add 30 µl of 10/1 TE or Molecular Grade Water.

  NB: The pellet may not be visible

- Leave for 30 minutes (or overnight) to allow the DNA to rehydrate.

2 to 3 µl of a 1/10 dilution DNA prep is recommended in a 25 µl PCR of Arabidopsis. For other plants dilute 1/20 and use 2 to 3 µl in a 25 µl PCR (guide only).

TIPS

* If solution LA shows a white precipitate, place bottle in warm water bath or microwave briefly until solution becomes clear.

** To avoid spillage when grinding with fleshier plant material, it may be necessary to reduce the volume of Solution LA to 800 µl or 900 µl and consequently, the volume of Solution PA to 80 µl or 90 µl respectively.

- Spin in a microfuge at 13,000 rpm for 7 minutes to pellet the DNA.
- Remove the supernatant with a 1 ml pipette tip.
- Re-spin the tube briefly and remove the dregs.
- Add 50 µl of 10/1 TE.

  NB: The pellet may not be visible

- Leave for 30 minutes (or overnight) to allow the DNA to rehydrate
- Use 2 to 3 µl of a 1/10 dilution in a 25 µl PCR (guide only)

TIPS

* If solution LA shows a white precipitate it needs warming before use. Place bottle in a warm water bath or microwave briefly until solution becomes clear.

DNAmite® Direct

Part Number: **2DD**
Storage: **Store at room temperature & at +4°C**

Put sample* into a 1.5 or 2.0 ml microtube
- Add 400 µl of DNAMITE DIRECT
- Vortex tube briefly
- Place tube in water bath (temperature adjustable) and heat at: 70°C for 15 mins then 90 to 95°C for 5 mins
- Vortex tube briefly
- Spin tube at 2 - 5K rpm for 2 minutes to pellet debris if necessary

The DNA is now ready for further processing

Use 2 to 5 µl per PCR or store at +4°C. After treatment the DNA is stable in DNAMITE DIRECT for up to one month.

*Swabs, Meat, Fish, Feathers, Bacteria etc.

MegaMix

Part Number: **2MM**
Storage: **Store @ -20ºC**

Supplied as a clear solution in multiple of 1 ml aliquots.

Containing Taq polymerase (recombinant) in 1.1x reaction buffer (2.75 mM MgCl2) with 220 µM dNTPs & stabilizer

For instant and accurate PCRs

- Thaw the MegaMix
- Add the desired volume (47 µl or less) into the PCR tube*
- Add DNA (1-2µl) and primers (0.5-1µl of each from ~10 µM stock)
- Overlay with mineral oil if necessary
- Place in a Thermal Cycler

Cycling profile (guide only)
- Initial denaturation step: 95°C for 3 mins
- Then cycle 25 - 30 times:
- Step 1: 95°C for 30 secs
- Step 2: Optimal annealing temp. of primers for 30 to 60 secs
- Step 3: 72°C for 45 to 60 secs
- Cool to room temperature

**Refreeze the rest of the MegaMix. It can be frozen/thawed many times without loss of activity

MegaMix-Blue

Part Number: **2MMB**
Storage: **Store @ -20ºC**

Supplied as a blue solution in multiple of 1 ml aliquots.

Containing Taq polymerase (recombinant) in 1.1x reaction buffer (2.75 mM MgCl2) with 220 µM dNTPs, blue agarose loading dye & stabilizer.

For instant and accurate PCRs

Protocol
- Thaw the MegaMix-Blue
- Add the desired volume (47 µl or less) into the PCR tube*
- Add DNA (1-2µl) and primers (0.5-1µl of each from ~10 µM stock)
- Overlay with mineral oil if necessary
- Place in a Thermal Cycler

Cycling profile (guide only)
- Initial denaturation step: 95°C for 3 mins
- Then cycle 25 - 30 times:
- Step 1: 95°C for 30 secs
- Step 2: Optimal annealing temp. of primers for 30 to 60 secs
- Step 3: 72°C for 45 to 60 secs
- Cool to room temperature

**Refreeze the rest of the MegaMix. It can be frozen/thawed many times without loss of activity

MegaMix-Double

Part Number: **2MMD**
Storage: **Store @ -20ºC**

Supplied as a clear solution in multiple of 1 ml aliquots.

Containing Taq polymerase (recombinant) in 2x reaction buffer (5 mM MgCl2) with 400 µM dNTPs & stabilizer

For instant and accurate PCRs

- Thaw the MegaMix-Double
- Add the desired volume (25 µl or less) into the PCR tube*
- Add DNA, primers and water of total equal volume to MegaMix-Double
- Overlay with mineral oil if necessary
- Place in a Thermal Cycler

Cycling profile (guide only)
- Initial denaturation step: 95°C for 3 mins
- Then cycle 25 - 30 times:
- Step 1: 95°C for 30 secs
- Step 2: Optimal annealing temp. of primers for 30 to 60 secs
- Step 3: 72°C for 45 to 60 secs
- Cool to room temperature

**Refreeze the rest of the MegaMix-Double. It can be frozen/thawed many times without loss of activity

MegaMix-Gold

Part Number: **2MMG**
Storage: **Store @ -20ºC**

Supplied as a clear solution in multiple of 1 ml aliquots.

Containing optimised mixture of Taq polymerase, anti-Taq polymerase monoclonal antibodies in 2 x reaction buffer (6 mM MgCl2) with 400 µM dNTPs & stabilizer

Protocol

- Thaw the MegaMix-Gold
- Add the desired volume (12.5 µl or less) into the PCR tube*
- Add equal volume of DNA, primers, (fluorescence dye/probe) and water
- Place in a Thermal Cycler
- Run cycling profile according to application
- An initial denaturation step at 95°C for 5 mins is needed to activate the Taq polymerase

**Refreeze the rest of the MegaMix-Gold. It can be frozen/thawed many times without loss of activity

MegaMix-Royal

Part Number: **2MMR**
Storage: **Store @ -20ºC**

Supplied as a clear solution in multiple of 1 ml aliquots.

Containing optimised mixture of Taq polymerase, anti-Taq polymerase monoclonal antibodies in 2 x reaction buffer (6 mM MgCl2) with 400 µM dNTPs, blue agarose loading dye & stabilizer

Protocol

- Thaw the MegaMix-Royal
- Add the desired volume (12.5 µl or less) into the PCR tube*
- Add equal volume of DNA, primers, (fluorescence dye/probe) and water
- Place in a Thermal Cycler
- Run cycling profile according to application
- An initial denaturation step at 95°C for 5 mins is needed to activate the Taq polymerase
- After PCR, samples can be loaded direct onto the agarose gel

NO GEL LOADING BUFFER REQUIRED

**Refreeze the rest of the MegaMix-Royal. It can be frozen/thawed many times without loss of activity

microLYSIS®-PLUS

Part Number: **2MLP-100**
Storage: **Store @ +4ºC or -20ºC**

- Mix cells* with 20 µl microLYSIS®-PLUS.
- Overlay with mineral oil if necessary.
- Place in a Thermal Cycler.

Lysis Profile 1** - For most cells

Step 1: 75°C for 5 minutes
Step 2: 95°C for 2 minutes
Step 3: 20°C hold

Lysis Profile 2 - For tough cells

Step 1: 65°C for 15 minutes
Step 2: 96°C for 2 minutes
Step 3: 65°C for 4 minutes
Step 4: 96°C for 1 minute
Step 5: 65°C for 1 minute
Step 6: 96°C for 30 seconds
Step 7: 20°C hold

After lysis, all of the microLYSIS®-PLUS/DNA mixture can be used directly in PCR. It can make up to 40% of most PCR mixutres. Or it can be stored at -20ºC for future use.

* Free from PCR inhibitors

** Lysis profile 1 is not recommended for long term storage of the released DNA.

NOTE: microLYSIS®-PLUS is a complex solution which releases (does not purify) the DNA from the cells. Estimation of DNA yield after lysis can therefore not be done using a spectrophotmeter.

microLYSIS®-STANDARD

Part Number: **2ML-100**
Storage: **Store @ +4ºC or -20ºC**

- Resuspend cell pellet in 20 µl microLYSIS® or mix 1 µl cells with 19 µl* microLYSIS®
- Overlay with mineral oil if necessary
- Place in a Thermal Cycler

Cycling profile

Step 1: 65°C for 5 mins
Step 2: 96°C for 2 mins
Step 3: 65°C for 4 mins
Step 4: 96°C for 1 mins
Step 5: 65°C for 1 mins
Step 6: 96°C for 30 secs
Step 7: 20°C hold

After cycling, all of the microLYSIS®/DNA mixture can be used directly in PCR. Alternatively, the mixture can be stored at -20°C for future use. For the amplification of bacterial/plasmid DNA, 1 to 3 µl of the microLYSIS®/DNA mixture is usually sufficient.

*Other ratios of microLYSIS® : cells (e.g. 2:18 or 3:17) may be preferred

Note: microLYSIS® is a complex solution which releases (does not purify) the DNA from the cells. Estimation of DNA yield after lysis can therefore not be done using a spectrophotometer.

microCLEAN

Part Number: **2MCL**
Storage: **Store @ +4.0ºC**

- Add an equal volume of microClean to DNA sample.
- Mix by pipetting or vortexing briefly.
- Leave at room temperature for 5 minutes.

For Tubes

- Spin tube at high speed (13,000 in microfuge) for 7 minutes.
- Remove supernatant.
- Spin tube again to remove dregs (very important).
- Resuspend pellet in appropriate volume of dH2O.
- Leave for 5 minutes to allow DNA to rehydrate.

For Plates

- Spin plate at 2,000 to 4,000 g for 40 minutes.
- Remove supernatant by inverting plate carefully onto tissue paper in centrifuge holder.
- Centrifuge at low speed <40 g for 30 seconds.
- Resuspend pellet in appropriate volume of dH2O.
- Leave for 5 minutes to allow DNA to rehydrate.

ROX Fluorescent Ladder, 400bp

Part Number: **MRK400**
Storage: **+4.0ºC**

MRK 400 contains the following sized bands:
70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380 and 400 base pairs

Directions for gels and capillary systems:

- Combine 0.5µl ROX ladder, 0.5µl tracking dye, 2.5µl deionized formamide and 1-2µl of sample.
- A marker-dye master mix can be prepared by combining the above components in suitable quantities for the number of samples being analyzed.
- After combining samples with marker/dye/formamide mix, the mixture should be briefly vortexed followed by brief centrifugation and and denatured at 95ºC for 5 minutes, then cool to 4ºC.
- Load from 1-3µl of comined material per lane, depending on well capacity.

ROX Fluorescent Ladder, 500bp

Part Number: **MRK500**
Storage: **+4.0ºC**

Please Note: As of July 28, 2008, we have added extra marker positions at 425 and 475 base pairings to enhance accuracy of base calling, as listed below. Please adjust your settings accordingly.

MRK500 is a ROX labeled 500 nucleotide ladder containing 19 ssDNA fragments from 50 to 500 nucleotides with 25nt spacing. Each fragment appears as a single peak under denaturing conditions. Each vial contains 800µl, with a recommended loading of 1µl per lane.

MRK 500 contains the following sized bands:
70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 425, 450, 475, 490, and 500 base pairs. All ladders are evaluated for resolution and intensity.

Directions for gels and capillary systems:

- Combine 0.5µl ROX Ladder, 0.5µl tracking dye, 2.5µl deionized formamide and 1-2µl of sample.
- A marker-dye master mix can be prepared by combining the above components in suitable quantities for the number of samples being analyzed.
- After combining samples with marker/dye/formamide mix, the mixture should be briefly vortexed followed by brief centrifugation and and denatured at 95ºC for 5 minutes, then cool to 4ºC.
- Load from 1-3µl of comined material per lane, depending on well capacity.

ROX Fluorescent Ladder, 1000bp

Part Number: **MRK1000**
Storage: **+4.0ºC**

MRK1000 contains the following sized bands:
50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 475, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950 and 1000 base pairs.

Directions for gels and capillary systems:

- Combine 0.5µl ROX Ladder, 0.5µl tracking dye, 2.5µl deionized formamide and 1-2µl of sample.
- A marker-dye master mix can be prepared by combining the above components in suitable quantities for the number of samples being analyzed.
- After combining samples with marker/dye/formamide mix, the mixture should be briefly vortexed followed by brief centrifugation and and denatured at 95ºC for 5 minutes, then cool to 4ºC.
- Load from 1-3µl of comined material per lane, depending on well capacity.

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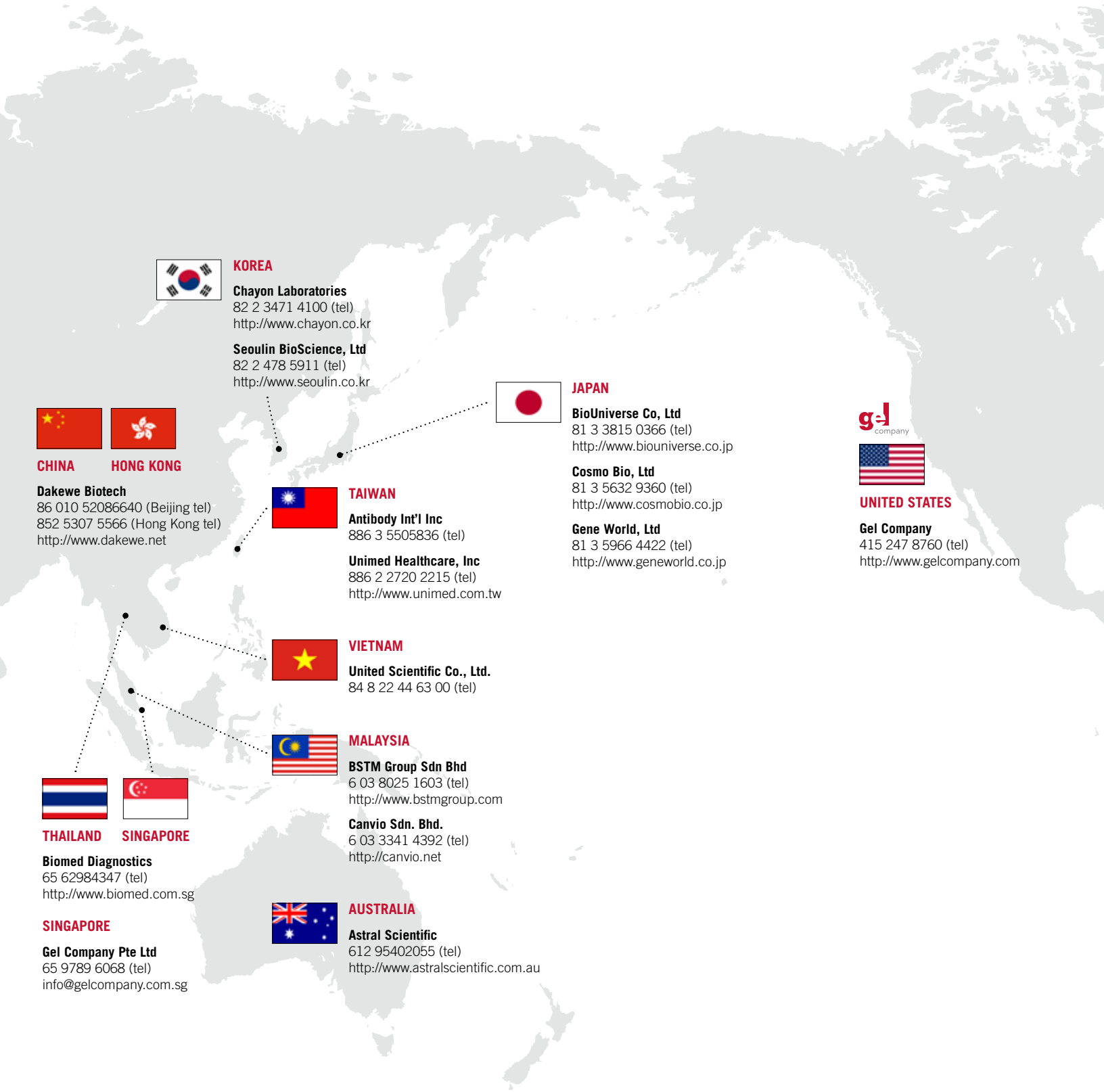

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