

Corning Genomics Selection Guide



Life
Sciences





Introduction

Corning Life Sciences is pleased to present our Genomics Selection Guide. In this guide, you will find a selection of Corning's newest and most requested products.

For up-to-date information on Corning Life Sciences' comprehensive range of products and services, go to www.corning.com/lifesciences where you can access:

- ▶ New Products Information
- ▶ Technical Information including:
 - Application Notes
 - Instruction Manuals
 - Product Bulletins
- ▶ Product Catalog Information
- ▶ Product Literature
- ▶ Complete Distributor Information

For additional product information, please visit www.corning.com/lifesciences, or call 1.800.492.1110. Customers outside the United States, please call 1.978.635.2200 or contact your local support office. Local offices are listed on the back cover.

Ordering Information

Corning products are available through any authorized Corning support office or distributor. Please see our web site for a complete listing.

To place an order, simply contact the distributor of your choice. For each requested product, provide the Corning catalog number, product description and desired quantity.



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Overview

FROM START TO FINISH – MEETING THE NEEDS OF THE GENOMICS LABORATORY

Corning's dedication to quality and technology has produced this comprehensive line of products for the genomics laboratory. Whatever aspect of research you are involved in – from culturing cells or microorganisms to printing and hybridizing DNA arrays, Corning's quality and breadth of line delivers reliable results. All of Corning's products are manufactured under stringent quality guidelines as an assurance of consistent performance from device to device and lot to lot. Featured in this brochure are our newest products for the high throughput genomics laboratory:

- ▶ Thermowell® Gold PCR reaction vessels for conventional and real-time PCR, and cycle sequencing
- ▶ 96 well half area UV plates for nucleic acid quantitation
- ▶ Low profile BioAssay dishes that are robotic friendly and maximize incubator and storage space

THE EQUIPMENT COMPATIBILITY PROGRAM

The increasing use of automated laboratory equipment demands laboratory disposables whose fit and function have been qualified. Our microplates are designed with automation compatibility in mind and they meet industry standards for plate dimensions. In addition, Corning Life Sciences maintains a comprehensive equipment compatibility program in which leading equipment manufacturers certify the compatibility of our products with their instruments. This information is continually updated with our new products as well as new instruments. For the most current information, visit our website: www.corning.com/lifesciences.

LIFE SCIENCES EARLY ACCESS TO DEVELOPMENT – THE L.E.A.D. PROGRAM

Corning is committed to meeting the rapidly evolving needs of the life sciences laboratory. We are continually developing innovative new products that are compatible with the latest advances in technology and instrumentation. Our L.E.A.D. program gives researchers access to these products and special pricing prior to their full market release. Contact your local Corning Life Sciences office or representative for more information about the products currently available through this program.

EXPERT ASSISTANCE IS JUST A TELEPHONE CALL OR E-MAIL AWAY

Customer service and technical representatives are available to answer any question – from pricing and product availability to protocols and applications advice. Our offices around the world are able to respond promptly to your inquiry regardless of your location. Contact us at your local office (listed on the back cover).

Colony Picking, Bacterial Growth, and Storage

245 mm Square BioAssay Dishes



245 mm Square BioAssay Dish

Square bioassay dishes are made from polystyrene and are certified nonpyrogenic. They are packed with lids and are designed with a stacking bead so that they will stack securely without slipping. The dishes are compatible with automated colony picking instruments.

Cat. No.	Description	Automation Compatibility	Qty/Pk	Qty/Cs
431111	245 mm x 245 mm, Square, 18 mm Deep Nontreated Dish, Sterile	PBA Flexys™ and the Genetix “Q” Bot® automated colony picking and gridding robots	4	16
431272	245 mm x 245 mm, Square, 18 mm Deep Nontreated Dish, Sterile	AutoGen AutoGenesys, BioRobotics BioPick, BioGrid, TAS and MicroGrid II high volume automated colony picking systems	4	16
New 431301	245 mm x 245 mm, Low Profile, Sterile, Nontreated Dish	PBA Flexys, Genetix “Q” Bot, BioRobotics, BioPick	5	20

96 and 384 Well Polypropylene Blocks for Growth and Storage



384 Well Polypropylene Blocks

96 and 384 well deep well blocks feature well designs for optimal liquid handling and are certified DNase- and RNase-free.

Cat. No.	Description	Well Shape	Sterile	Well Volume	Qty/Pk	Qty/Cs
3956	96 Well	Round V	Yes	0.5 mL	10	50
3957	96 Well	Round V	No	0.5 mL	100	100
3958	96 Well	Round	Yes	1 mL	5	25
3959	96 Well	Round	No	1 mL	5	100
3960	96 Well	V-Bottom	Yes	2 mL	5	25
3961	96 Well	V-Bottom	No	2 mL	5	100
3964	384 Well	Square-Round	Yes	180 µL	5	25
3965	384 Well	Square-Round	No	180 µL	5	100
3342	384 Well	Square V	Yes	240 µL	5	50
3347	384 Well	Square V	No	240 µL	5	50

Disposable Culture Flasks



Disposable Plastic Erlenmeyer Flasks

Disposable plastic Erlenmeyer flasks are made from optically clear polycarbonate and feature a wide, easy access mouth. The polycarbonate construction also delivers mechanical strength for shaker culture applications. Each flask is individually packaged and radiation sterilized. The polypropylene plug seal caps offer two positions: open to allow gas exchange or closed for a liquid-tight seal. The vent caps allow free gas exchange while offering a liquid-tight, contamination-free seal.

Cat. No.	Capacity (mL)	Graduations (mL)	Neck Diameter (mm)	Cap Style	Sterile	Qty/Pk	Qty/Cs
430421	125	25	26	Plug Seal	Y	1	50
431143	125	25	26	Vent Cap	Y	1	50
430183	250	25	31	Plug Seal	Y	1	50
431144	250	25	31	Vent Cap	Y	1	50
430422	500	50	43	Plug Seal	Y	1	25
431145	500	50	43	Vent Cap	Y	1	25
431146	1000	50	43	Plug Seal	Y	1	25
431147	1000	50	43	Vent Cap	Y	1	25

Purification

FiltrEX™ 96 and 384 Well Filter Plates

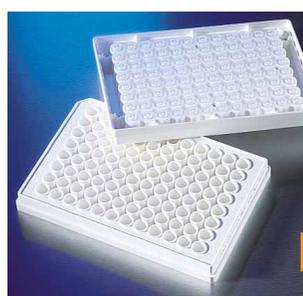
Corning® FiltrEX filter plates meet the industry standards for plate dimensions. The rigid side walls make the plate ideal for automation and the wide skirt accepts bar codes. Individual filter disks are encapsulated in the plate by a patented* process that ensures 100% integrity of each well. The design of the nozzle prevents sample cross-contamination and wicking. Glass fiber filter plates can be used for a variety of applications, such as plasmid isolation, DNA purification, PCR† clean-up or receptor/ligand binding assays. They are a cost-saving alternative to expensive DNA prep kits. Use the low-binding hydrophilic PVDF membrane for lysate clarification, protein kinase assays, or bead- or resin-based separation assays. Visit the Technical Information Center at our web site for additional application information.



384 FiltrEX Filter Plates

384 Well FiltrEX Filter Plates

Cat. No.	Membrane	Pigment	Sterile	Well Volume (µL)	Qty/Pk	Qty/Cs
3531	0.45 µm PVDF	White	No	180	5	25
3533	0.66 mm Glass Fiber	White	No	180	5	25



96 FiltrEX Filter Plates

96 Well FiltrEX Filter Plates

Cat. No.	Description	Sterile	Well Volume (µL)	Qty/Pk	Qty/Cs
3504	0.2 µm PVDF Membrane, Hydrophilic	No	350	10	50
3505	0.2 µm PVDF Membrane, Hydrophilic	Yes	350	10	50
3510	0.25 mm Glass Fiber Filter	No	350	10	50
3511	0.66 mm Glass Fiber Filter	No	350	10	50
3514	Fluid Guard for FiltrEX 96 Well Filter Plates	No	–	100	100

Please contact us for customized membranes.

*U.S. Patent No. 6,391,241

†PCR is covered by patents owned by Hoffman-LaRoche Inc., Nutley, NJ. Use of the PCR process requires a license.

Volume Adapter and Applicator

A volume adapter allows larger volumes (up to 1 mL) to be applied to the 96 well filter plates. The applicator easily assembles and disassembles the filter plate and adapter, and ensures a perfect, leak-free fit.



Volume Adapter

Cat. No.	Description	Qty/Pk	Qty/Cs
3584	Volume Adapter, Nonsterile	10	50
3507	Applicator	1	1

Collection Microplates

FiltrEX 96 and 384 well filter plates meet industry standards for plate dimensions and can be used with a broad range of collection plates. Polystyrene and polypropylene plates are available with a variety of well geometries. Commonly used collection plates are listed below. For information about other compatible collection plates, please contact us.

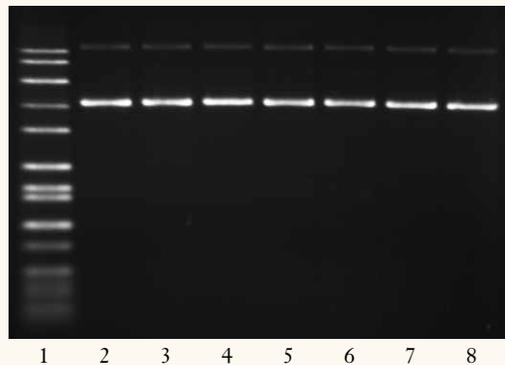
Cat. No.	Description	Well Volume (µL)	Qty/Pk	Qty/Cs
3371	96 Well, Round Bottom Polypropylene ClearPro™ Plate	360	25	100
3795	96 Well, Round Bottom Polystyrene Plate	360	25	100
3897	96 Well, V-Bottom Polystyrene Plate	320	25	100
3657	384 Well, Square Well, Round Bottom Polypropylene Plate	95	25	100
3965	384 Well, Square Well, Round Bottom Polypropylene Block	180	5	100
3702	384 Well, Flat Bottom Polystyrene Plate	125	25	100

FiltrEX™ 96 and 384 Well Filter Plate Construction



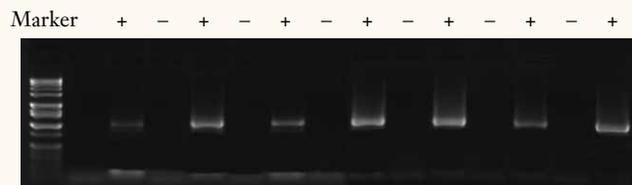
The proprietary nozzle design and individual, integrally-sealed filter disks prevent filtrate cross contamination and wicking. The rigid construction and wide skirt allow for robotic handling and bar coding.

FiltrEX Filter Plate Performance

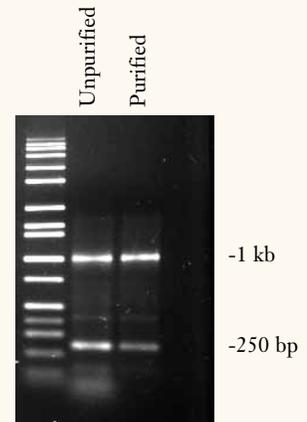


Agarose gel electrophoresis of Plasmid DNA prepared using Corning® FiltrEX 384 well filter plates.

Plasmid DNA samples isolated with glass fiber filter plates were separated in a 1% agarose gel in 1X TAE buffer. Lane 1 contains 10 µL of Hi-Lo™ markers (total DNA = 1 µg). Lanes 2-8 contain plasmid preparations isolated using 7 different wells of the filter plate. Plasmid DNA was recovered in approximately 55 µL total volume. Two microliters (2 µL) of recovered plasmid were loaded in each lane of the gel.



Integrally sealed wells eliminate sample cross contamination. Alternating wells of negative control (-) or plasmid DNA (+) filtered through FiltrEX 384 well Filter Plates were analyzed for cross-contamination by PCR. PCR products were not detected in the negative control wells, indicating the absence of contaminating DNA.



PCR Clean-Up

PCR products were purified using a FiltrEX 384 well glass fiber filter plate. Primer dimers were efficiently removed with good recovery of the PCR products.



Spin-X Centrifuge Tube Filters

Spin-X® Centrifuge Tube Filters

Spin-X centrifuge tube filters consist of a membrane-containing filter unit within a centrifuge tube. They filter by centrifugation for bacteria removal, particle removal, HPLC sample preparation, removal of cells from media and DNA removal from agarose or acrylamide gels. Maximum RCF** is 16,000 x g.

Cat. No.	Membrane	Well Volume (working μL)	Pore Size (μm)	Tube Size (mL)	Qty/Cs
8160	CA	500	0.22	2.0	96
8161*	CA	500	0.22	2.0	100
8162	CA	500	0.45	2.0	96
8163*	CA	500	0.45	2.0	100
8169*	NY	500	0.22	2.0	200
8170*	NY	500	0.45	2.0	200

CA = Cellulose Acetate, NY = Nylon

*Indicates that the product is nonsterile and certified nonpyrogenic.

**RCF = Relative Centrifugal Force.

Spin-X Tube Purification of DNA from Agarose Gels

Introduction

Purification of DNA from an agarose gel with the Spin-X tube is quick and efficient, unlike the electroelution, dialysis, and “freeze-squeeze” methods. The Spin-X method consists of two simple steps: excision of the band from the gel and centrifugation in the Spin-X tube. Yields range from 30 to 80%.

Protocol*

1. Electrophorese DNA in an agarose gel containing ethidium bromide.
2. After electrophoresis, illuminate the gel under long wavelength UV light, then, using a sharp instrument, carefully excise the band of interest (30-15,000 bp).
3. Place the gel slice into the filter cup of the Spin-X tube (Cat. No's. 8160, 8161, 8162, 8163) and mix with 100 to 200 μL of distilled water or Tris-EDTA.
4. Spin the tube at about 13,000 x g for 5 to 20 minutes at room temperature.
5. Collect the DNA from the microcentrifuge tube; the agarose gel will be retained on the Spin-X membrane. If needed, ethanol precipitate the DNA to remove any EDTA present.

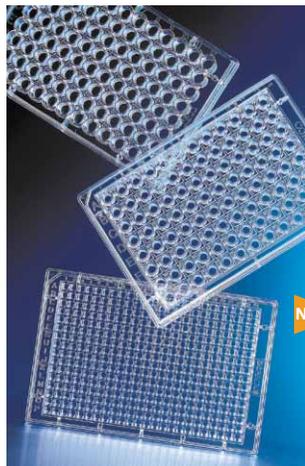
Note: DNA yield may increase with the incorporation of one or all of the following steps:

1. Macerate the gel slice prior to placement in the Spin-X tube.
2. Prior to centrifugation in step #4, freeze the gel slice at -70°C in a separate tube, then allow to thaw.
3. After the initial centrifugation, add an additional 200 μL of buffer to the Spin-X tube and centrifuge again.
4. Spin for a longer period of time.

*Schwarz, Herbert and Whitton, J. Lindsay, 1992. A Rapid, Inexpensive Method for Eluting DNA from Agarose or Acrylamide Gel Slices Without Using Toxic or Chaotropic Materials. Vol. 13, No. 2, Biotechniques.

Quantitation and Detection

96 and 384 Well UV Microplates

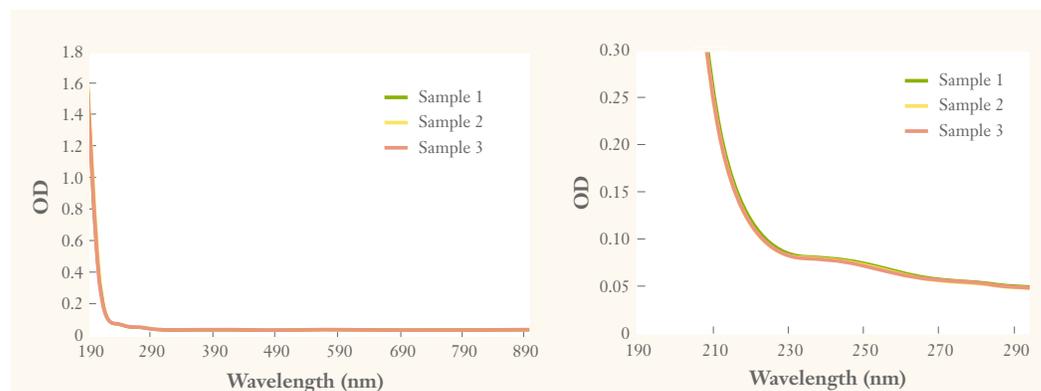


96 Well Half Area, 96 and 384 Well UV Microplates

These plates have a unique UV-transparent bottom; ideal for determining protein and/or nucleic acid concentrations. The UV-transparent bottom is molded to the top without adhesives for greater strength and maximum leak resistance. Plates are certified for low background and consistent performance at 260 and 280 nm. Their broad linear detection range allows reliable detection of high and low concentrations of biomolecules.

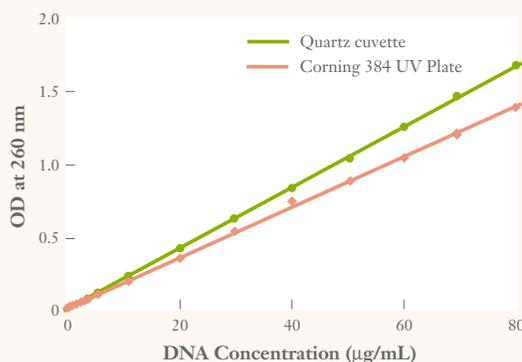
Cat. No.	Format	Bottom	Well Volume (µL)	Qty/Pk	Qty/Cs
3635	96 Well	Flat	370	25	50
3675	384 Well	Flat	125	5	25
3679	96 Well Half Area	Flat	205	25	50

384 Well UV Microplate Performance



Background absorbance of three samples of the Corning 384 well UV plate bottom material.

This material features consistently low absorbance over a broad wavelength range, including well into the UV. The three samples showed negligible background absorbance across the entire visible spectrum (left panel) and very low background in the UV range (right panel).



Comparison of DNA detection with the Corning 384 well UV plate to individual samples read in a quartz cuvette.

For each indicated DNA concentration, triplicate 100 µL samples were read in a quartz cuvette with a Beckman DU® spectrophotometer. Six samples (90 µL) were read in a Corning 384 well UV plate at each concentration with a Tecan ULTRA™ reader. These sample volumes were chosen in order to maintain a 1 cm path length (smaller volume samples can be read in the UV plate). The Corning UV plate demonstrates a broad linear range enabling the reliable detection of high and low concentrations as well as good sample to sample consistency (CV's of <2% at 50 µg/mL DNA).

DNA-BIND™ Assay Microplates

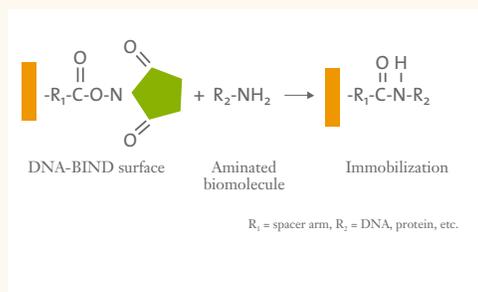
DNA-BIND surface covalently couples to amine groups, providing a convenient method to immobilize aminated single-stranded DNA by either the 5' or 3' end for hybridization, amplification, or other DNA-based assays. 96 well plates and 1 x 8 Stripwell™ plates come without lids. Protocols and application information are available on our web site: www.corning.com/lifesciences.



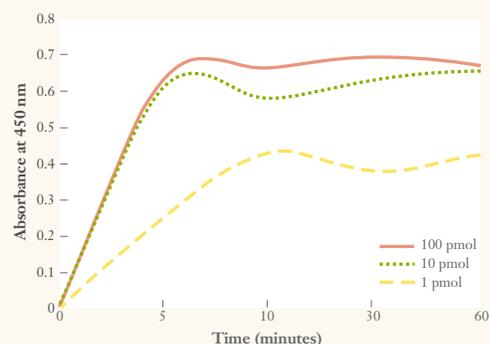
DNA-BIND Assay Microplates

Cat. No.	Format	Well Shape	Qty/Pk	Qty/Cs
2497	1 x 8 Stripwell Plate, White	Flat	1	50
2505	96 Well Plate, Clear	Flat	1	50
2506	1 x 8 Stripwell Plate, Clear	Flat	1	50

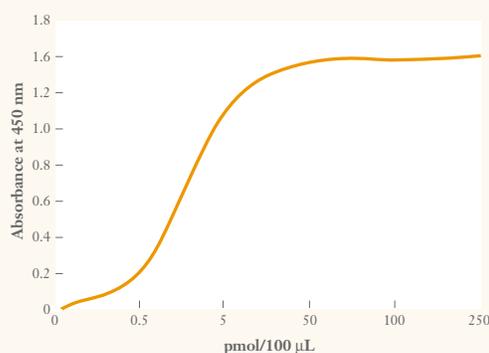
DNA-BIND Surface Performance



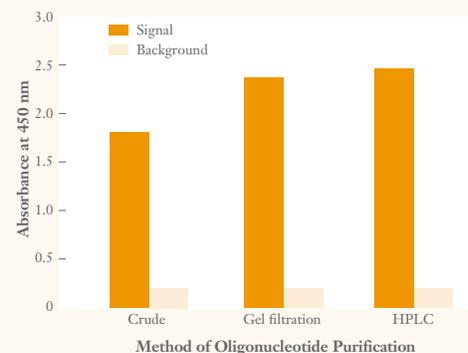
Reaction of N-oxysuccinimide with an aminated biomolecule



Kinetics of oligonucleotide coupling



Detection of hybridization at increasing oligonucleotide concentrations



Effect of post-synthetic purification method on signal strength and background

DNA Amplification

Thermowell® GOLD PCR† Reaction Vessels from Corning

Thermowell GOLD PCR reaction vessels exemplify Corning’s commitment to innovation: to develop superior quality, reliable, and versatile products to complement today’s dynamic changes in technology. The wide variety of options offered by Thermowell GOLD provides researchers the choices necessary for complete compatibility with laboratory equipment. Look to Thermowell GOLD for PCR, sequencing, and real-time PCR.

Thermowell GOLD 384 Well Polypropylene PCR Microplates and Accessories

Thermowell GOLD 384 well PCR microplates feature exceptional dimensional stability following thermocycling, and are fully compatible with automation, commonly used thermal cyclers, and Applied Biosystems® sequencing adapters (see compatibility table).



Thermowell GOLD 384 Well PCR Microplates

Cat. No.	Description	Qty/Pk	Qty/Cs
3757	384 Well Polypropylene PCR Microplate, clear	10	50
3756	384 Well Polypropylene PCR Microplate, black	10	50
3699 ^a	Silicone Rubber Sealing Mat – 384 Well Microplates	1	25
6569	Aluminum Sealing Tape-384 Well Microplates	100	100
6575	Universal Optical Sealing Tape	100	100

^aThermowell Sealing Mats, available for 384 Well PCR Plates, are easy to apply and remove, fully autoclavable and reusable (at least five times). These silicone rubber mats offer a cost effective alternative to other sealing methods and provide 100% sealing when used in conjunction with clamp or screw-down heated lid thermal cyclers.

Thermowell GOLD and Thermowell 96 Well Polypropylene PCR Microplates and Accessories

Thermowell GOLD 96 well PCR microplates are offered in five formats to ensure maximum flexibility and a perfect match for your applications. The original Thermowell 96 well PCR microplates are universal fit and can be cut into 3 x 8 well segments.



Thermowell GOLD 96 Well Polypropylene PCR Microplates

Cat. No.	Description	Qty/Pk	Qty/Cs
6551	96 Well Microplate, Clear – Thermowell	25	25
3752	96 Well Microplate, Full Skirt, Clear – Thermowell GOLD	10	50
3751	96 Well Microplate, Full Skirt, Black – Thermowell GOLD	10	50
3753	96 Well Microplate, Half Skirt, Clear – Thermowell GOLD	10	50
3755	96 Well Microplate, Half Skirt, Black – Thermowell GOLD	10	50
3754 ^b	96 Well Microplate, Elevated Skirt, Clear – Thermowell GOLD	10	50

^bFully compatible with ABI 3700 and 3730.

Polycarbonate PCR Microplates

Cat. No.	Format	Model Name	Well Volume (µL)	Qty/Pk	Qty/Cs
6509	96 Well	Model P	200	1	25
6511	96 Well	Model M	200	1	25

Thermal Cycler Compatibility Guide for Polycarbonate PCR Microplates

Cat. No.	Name	Compatible Thermal Cyclers
6509	Model P	Applied Biosystems GeneAmp® PCR System 9600 ^c , Barnstead Thermolyne Amplitron II®, Techne® Cyclogene, and Gene E with 96 x 0.2 mL block
6511	Model M	MJ Research PTC-100-96V, PTC-200 DNA Engine™, Biometra Uno - Thermoblocker™, Coy Corporation Temp Cycler II, Corbett Research FTS-960, Hybaid OmniGene with Microblock, Quatro BioSystems T-C-40

^cRequires the use of the Spacer Block and Frame (Cat. No. 6527).

[†]PCR is covered by patents owned by Hoffman-LaRoche Inc., Nutley, NJ. Use of the PCR process requires a license.

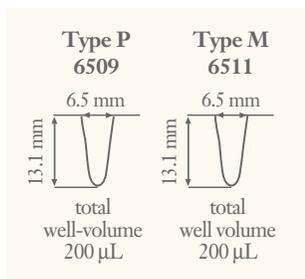


Plate Well Dimensions



Sealing Tape, Sealing Mats, and Cap Strips for PCR

PCR Sealing Tape and Sealing Mats

Sealing tapes prevent evaporation and enable oil-free operation when used with thermal cyclers with heated lids. The universal optical sealing tape can be used in detection coupled with PCR systems (real-time PCR).

Cat. No.	Description	Qty/Pk	Qty/Cs
6524	Polyethylene Sealing Tape-96 Well Microplates	100	100
6569	Aluminum Sealing Tape-384 Well Microplates	100	100
6570	Aluminum Sealing Tape-96 Well Microplates	100	100
6575	Universal Optical Sealing Tape for Real Time PCR	100	100
6555	Thermowell™ Sealing Mat-96 Well Microplates	1	25
3699	Thermowell Sealing Mat-384 Well Microplates	1	25
3087	Silicone Rubber Septa Mat	10	50



Thermowell GOLD PCR Tubes

Thermowell GOLD and Thermowell PCR Tubes

Individual PCR tubes are made of thin wall polypropylene and designed for precise fit in heat blocks to optimize heat transfer. Tubes are tested and certified to be free of DNase and RNase, are autoclavable at 121°C and withstand centrifugation to 10,000 x g.

Cat. No.	Volume (mL)	Cap Style	Color	Qty/Pk	Qty/Cs
<i>Individual Polypropylene PCR Tubes – Thermowell GOLD</i>					
3745	0.2	Flat	Clear	500	1,000
3744	0.2	Flat	Assorted	500	1,000
3747	0.2	Dome	Clear	500	1,000
3746	0.2	Dome	Assorted	500	1,000
3750	0.5	Flat	Clear	500	1,000
3749	0.5	Flat	Assorted	500	1,000
<i>Individual Polypropylene PCR Tubes – Thermowell</i>					
6530	0.5	Flat	Clear	250	1,000
6531	0.2	Dome	Clear	96	960
6571	0.2	Flat	Clear	96	960



Thermowell GOLD 8 Well PCR Tube Strips

Thermowell® GOLD 8 Well PCR Tube Strips

Tube strips consist of eight 0.2 mL thin wall polypropylene tubes connected together. Dual connectors between adjacent tubes eliminate inadvertent breakage during sample handling. Tube strips are designed for precise fit in thermal cyclers to optimize heat transfer. Thermowell GOLD cap strips are sold separately from Thermowell GOLD tube strips. Original Thermowell tube strips and cap strips are packaged together. Tube strips are tested and certified to be free of DNase/RNase contamination and are autoclavable at 121°C.

Cat. No.	Description	Qty/Pk	Qty/Cs
3741	0.2 mL 1 x 8 Tube Strips, Clear – Thermowell GOLD	125	1,250
3740	0.2 mL 1 x 8 Tube Strips, Assorted Colors - Thermowell GOLD	125	1,250
6542	0.2 mL 1 x 8 Tube Strips, Clear – Thermowell	60	300
6547*	0.2 mL 1 x 8 Tube Strips, Assorted – Thermowell	60*	300
3743	1 x 8 Cap Strips, Domed, Clear – Thermowell GOLD	125	1,250
3748	1 x 8 Cap Strips, Domed, Assorted Colors – Thermowell GOLD	125	1,250
3742	1 x 8 Optically Clear Flat Cap Strips, for RT-PCR** – Thermowell GOLD	125	1,250

*60 of each color per bag; 1 bag of each color per case.

**Optically Clear Flat Cap Strips are designed for real-time PCR. Suitable for use with Thermowell GOLD 0.2 mL 1 x 8 PCR tube strips and 96 well microplates.

See page 11 for Compatibility Guide and Volume Reference table.

Compatibility Guide for Thermocyclers, Sequencers, and Real Time PCR



		Thermowell GOLD Microplates		
				
		96 Well Half Skirt	96 Well Full Skirt	384 Well
Thermal Cyclers				
Applied BioSystems®	GeneAmp® 9600 GeneAmp 9700	■		■
Biometra®	Uno® Uno II® T1 Thermocycler® Tgradient® Trobot®	■	■	■
Bio-Rad®	iCycler™	■		■
Eppendorf	MasterCycler®	■	■	
Ericomp	SingleBlock® TwinBlock® Deltacycler I®	■		
Flexi	Gene Genius		■	■
ThermoHybaid	PCR Sprint® PCR Express® MultiBlock System Touchdown® Omnigene® Omn-E®	■	■	■
MJ Research™	PTC 200 DNA Engine™ PTC 225 DNA Tetrad® PTC 100®	■	■	■
MWG™	Primus 96® Primus 384®	■	■	■
Stratagene®	Robocycler®		■	■
TaKaRa	TP 240® TP 3000®	■	■	
Techne®	Touchgene X®	■	■	■
RT-PCR Thermal Cyclers				
Applied BioSystems	ABI PRISM® 7000 ABI PRISM 7700 ABI PRISM 7900 HT	■	■	■
Bio-Rad	iCycler®		■	
Stratagene®	Mx 4000®		■	
Sequencers				
Applied BioSystems	ABI PRISM 3100 ABI PRISM 3700 ABI PRISM 3730	■		■
Amersham Biosciences	MegaBACE™ 500 MegaBACE 1000 Mark II MegaBACE 4000		■	■
MJ Research™	BaseStation® Transgenomic		■	

Thermowell GOLD PCR Microplates Volume Reference Table

Format	Total Volume	Working Volume
384 Well PCR Microplates	55 µL	50 µL
96 Well PCR Microplates, Full Skirt	240 µL	200 µL
96 Well PCR Microplates, Half Skirt	340 µL	300 µL
96 Well PCR Microplates, Elevated Skirt	340 µL	300 µL

Bar Code Customization



Dependable Durability

Bar codes have been quality tested for optimal readability, chemical resistance and temperature variation.

What is a Bar Code*?

The same kind of bar codes you see in stores and supermarkets can be very useful to your lab. Consisting of a series of black bars and light spaces representing letters and/or numerals, a bar code is an easy-to-use vehicle for data collection. The specific arrangement of these bars and spaces follows strict rules known as a “symbology.”

How Does a Bar Code Work?

Bar codes reflect spots of light into a scanner in varying amounts. These differences in reflection are translated into electrical signals by a light detector inside the scanner. The signals are converted into binary ones and zeros, which are used in various combinations to stand for specific numbers and letters.

Common Characteristics of a Bar Code

The Quiet Zones

The areas immediately adjacent to the beginning and the end of the bar code symbol. These zones define the parameters of the code. As a rule of thumb, zones should be 0.25" or larger to prevent misreads.

Start and Stop Characters

Found at the beginning and end of the bar code symbol. They tell the scanner from which direction information is being received.

Interpretation Line

Appears above or beneath a bar code where human readable information appears.

Corning, Beyond the Common Bar Code

- ▶ 2.75" x 0.25" label size
- ▶ Linear (1-D) bar codes: Code 128, Code 3 of 9, Interleaved 2 of 5
- ▶ 10 Mil Narrow Bar Element (X-dimension = 0.010")
- ▶ Multiple bar code labels on a single plate
- ▶ Label placement on any side of a Corning microplate
- ▶ Customer sequence is electronically stored and can be maintained even if plates or projects change.

Custom Designed Bar Codes

Corning will assist in designing and implementing a bar code label to meet your exact specifications. We will provide bar code label test samples at the front end of a project, to confirm decodability and ensure flawless performance in your end-use process. Our other customization features include:

- ▶ Flexible bar code and corresponding human readable layout/orientation on the bar code label, for compatibility with the internal bar code scanner inside your automated instruments
- ▶ Color coding
- ▶ Superior print quality and resolution
- ▶ Flexible bar code label positioning
- ▶ Resistant to most commonly used organic solvents

Expert Advice

Most Corning genomics products are suitable for bar code customization. Contact Corning Life Sciences or your local representative for more information.

*Information provided by Computype, Inc.

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