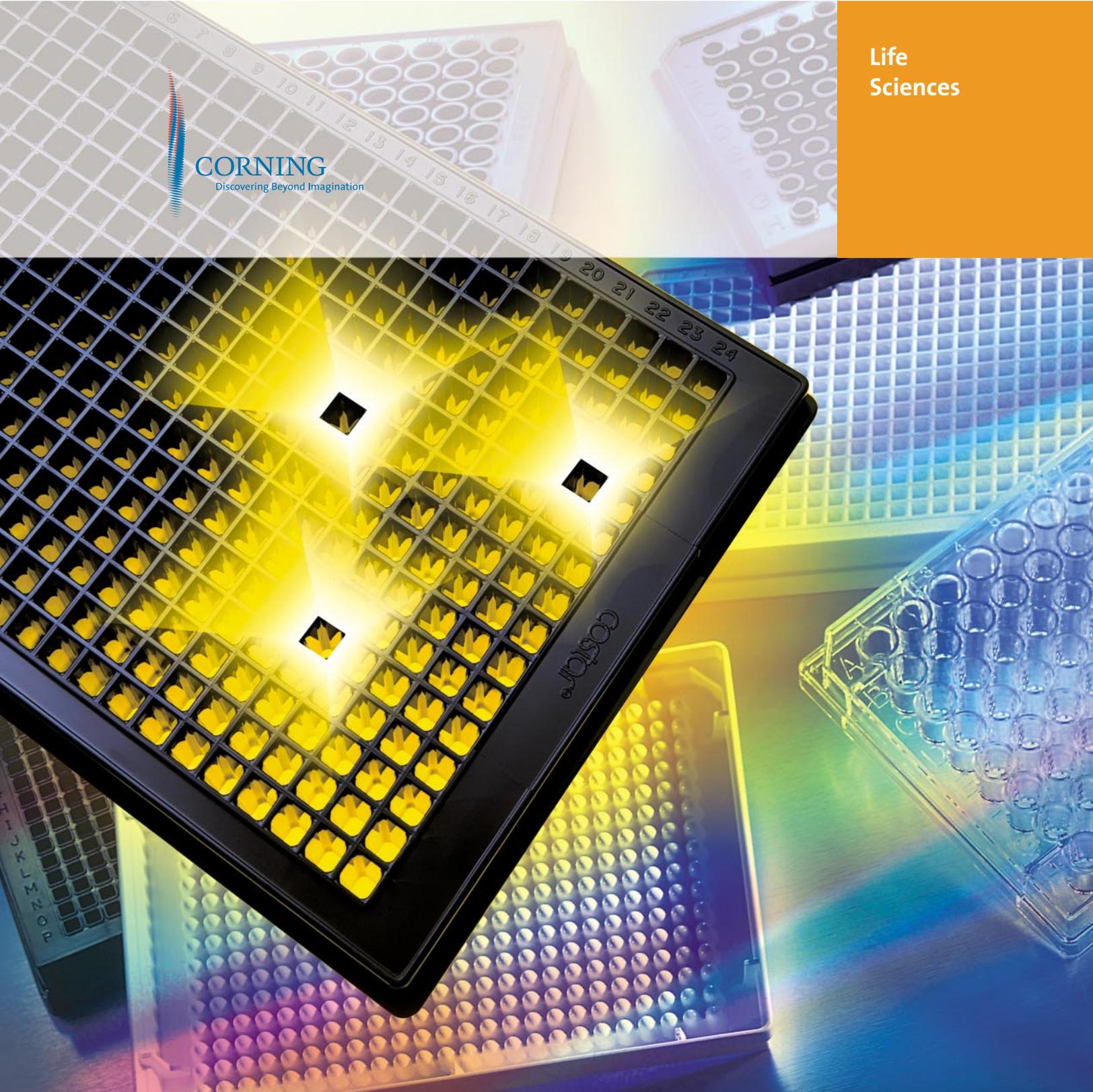


# Corning Microplate Selection Guide

For Assays and Drug Discovery



Life  
Sciences





## Introduction

Corning Life Sciences is pleased to present our new Microplate Selection Guide. In this guide, you will find a selection of Corning's newest and most requested products for assays and high-throughput screening.

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

- ▶ New Products
- ▶ Product Catalog
- ▶ Technical Information including:
  - Application Notes
  - Instruction Manuals
  - Product Bulletins
  - Product Selection Guides
- ▶ Microplate Equipment Compatibility Guide
- ▶ Product Literature
- ▶ Distributor Information

## 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

### DESIGNED FOR PERFORMANCE

Corning has been setting the standard for excellence in life science labware for over 85 years. With our comprehensive line of plasticware, including assay products, we continue to be an industry leader. Corning strives for the highest standards in product design and plastics molding.

Corning Life Sciences microplates and accessories are manufactured under strict process controls guaranteeing consistent product performance. Our manufacturing facility is located in Kennebunk, Maine, registered to the ISO 9001 2000 standards. ISO registration is recognized worldwide as a standard of excellence for quality systems.

Customers can request a Certificate of Compliance for any Corning® microplate. Also available are detailed product descriptions and drawings that highlight product dimensions and testing procedures. All are available by contacting your local Corning Life Sciences office. See the back cover of this guide for a listing.

### CORNING MICROPLATE EQUIPMENT COMPATIBILITY PROGRAM

The increasing use of automated laboratory equipment demands consumables that have been qualified for fit and function. Corning microplates are designed with automation compatibility in mind and meet industry standards. In addition, Corning has a comprehensive equipment compatibility program in which leading equipment manufacturers certify the compatibility of our microplates with their instruments.

For the most up-to-date information on equipment compatibility, Corning maintains a *Microplate Equipment Compatibility Guide* on our web site at [www.corning.com/lifesciences](http://www.corning.com/lifesciences). This on-line guide is searchable by instrument type, plate type, and by manufacturer name.

### LIFE SCIENCES EARLY ACCESS TO DEVELOPMENT – CORNING'S L.E.A.D. PROGRAM

Corning is committed to meeting the rapidly evolving needs of the life sciences laboratory. We are continually developing new and innovative 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.

## SELECTING THE BEST CORNING® MICROPLATE FOR YOUR APPLICATION

Corning offers a range of microplates in a variety of well designs and sizes, polymer materials and colors, and surface treatments. This guide includes 96, 384, and 1536 well microplates. Information on Corning plates in lower density formats (e.g., 24 and 48 well plates) can be found in our on-line product catalog at [www.corning.com/lifesciences](http://www.corning.com/lifesciences).

There are three simple steps for selecting the best Corning microplate for your application:

- 1 Choose the Corning microplate format and well design
- 2 Choose the Corning microplate material and color
- 3 Choose the Corning surface treatment

### 1 Choose the Corning Microplate Format and Well Design

Corning microplate dimensions meet industry standards, ensuring compatibility with all microplate equipment and automation. Our microplates feature an A-1 corner notch design. The A-1 corner notch allows for quick visual orientation of plates when setting up automation runs, thereby reducing chances for robotics problems and lost productivity.

Corning microplates are available in several well shapes, optimized to meet different application requirements.

- **Flat bottom** – for bottom reading plate readers and cell culture applications
- **Round bottom** – for improved mixing and washing
- **V-bottom** – for easier removal of total well contents
- **Easy Wash™ bottom** (round to narrowed flat well bottom) – for improved washing in immunoassays

In addition, Corning offers Half Area microplates for the 96 well format and Low Volume microplates for the 384 well format. These microplates are ideal for assays using reduced working volumes and can provide savings in reagent and compound use.

#### Well Shape Selection Chart

Well Shape	Microplate Format						
	96 Well	96 Well Stripwell™	Half Area 96 Well	384 Well	Low Volume 384 Well	1536 Well	2 $\mu$ L 1536 Well
Flat bottom	■	■	■	■	■	■	
Round bottom	■				■	■	■
V-bottom	■						
Easy Wash bottom	■						

Detailed information about well volume, working volumes, and plate dimensions for Corning 96, 384, and 1536 well microplates are provided throughout this guide.

### 2 Choose the Corning Microplate Material and Color

Corning uses different polymers for microplates to support various application requirements. Selection of the appropriate polymer material and color can improve assay performance. Additional technical information on key polymers can be found in the appendix at the end of this guide.

#### Material Selection Chart

Plate Material	Microplate Format						
	96 Well	96 Well Stripwell	Half Area 96 Well	384 Well	Low Volume 384 Well	1536 Well	2 $\mu$ L 1536 Well
Clear polystyrene	■	■	■	■			■
Solid black or white polystyrene	■	■	■	■	■	■	■
Clear bottom black or white polystyrene	■		■	■	■	■	
Polypropylene	■			■			
Solid black or white polypropylene	■			■*			
Flexible vinyl (PVC)	■						
UV	■		■	■			

\*Only available in black polypropylene

Corning® microplates are available in different materials:

- ▶ **Clear polystyrene microplates** are used for cell culture and colorimetric (absorbance) assays.
- ▶ **Black and white polystyrene microplates** can be used for fluorescent and luminescent assays. Solid black polystyrene plates are designed to reduce well-to-well crosstalk and background for fluorescent assays. Solid white polystyrene plates are designed to reduce well-to-well crosstalk, enhance luminescent signals and reduce background for luminescent assays. Both black and white plates are available with clear bottoms for use in cell-based assays and microscopy applications, and allow top or bottom reading capabilities.
- ▶ **Polypropylene microplates** are ideal for compound storage or assays that require high resistance to solvents including DMSO and ethanol. The Corning ClearPro™ 96 well microplate is also available and has greater clarity than standard polypropylene for easier visual inspection of samples.
- ▶ **Black and white polypropylene microplates** can be used for fluorescent and luminescent assays and reduce nonspecific binding problems observed with polystyrene plates. The polypropylene material is also highly resistant to many commonly used solvents.
- ▶ **Flexible vinyl (PVC) microplates** are economical, nonsterile general assay 96 well plates. Due to their flexible nature, these microplates are not compatible with automation.
- ▶ **UV microplates** allow UV absorbance readings with low background especially at 260 to 280 nm, and are ideal for determining protein or nucleic acid concentration.

### 3 Choose the Corning Surface Treatment

Corning offers polystyrene microplates with a variety of modified surfaces. These surfaces can support binding or covalent immobilization of cells, proteins, nucleic acids, and other biomolecules. Additional information on these surfaces can be found in the Technical Appendix at the end of this guide.

#### Surface Treatment Selection Chart

Surface Treatment	Microplate Format						
	96 Well	96 Well Stripwell™	Half Area 96 Well	384 Well	Low Volume 384 Well	1536 Well	2 µL 1536 Well
<i>For General Assay</i>							
Not Treated (medium binding)	■	■	■	■	■	■	■
High Binding	■	■	■	■	■		■
Nonbinding (NBS™)	■		■	■	■	■	
Sulfhydryl (Sulfhydryl-BIND™) Binding	■	■					
Carbohydrate (Carbo-BIND™) Binding	■	■					
Photo-reactive (Universal-BIND™) Binding	■	■					
Amine Binding		■					
<i>For Cell Culture</i>							
Tissue Culture (TC) Treated	■	■	■	■	■	■	■
Ultra Low Attachment	■						
Corning® CellBIND® Surface	■			■			
Poly-D-Lysine	■			■			

Corning offers various surface treatments for microplates:

- ▶ **Not treated (or medium binding) polystyrene surface** is hydrophobic in nature and binds biomolecules through passive interactions. It is suitable primarily for the immobilization of large molecules, such as antibodies, that have large hydrophobic regions that can interact with the surface.
- ▶ **High binding surface** is capable of binding medium (>10 kD) and large biomolecules that possess ionic groups and/or hydrophobic regions.
- ▶ **Nonbinding surface (NBS)** is a Corning proprietary treatment technology used on polystyrene microplates to create a nonionic hydrophilic surface (polyethylene oxide-like) that minimizes molecular interactions. Ideal for reducing protein and nucleic acid binding at low concentrations, and increasing assay signal to noise.

- ▶ **Corning® CellBIND® Surface** is a Corning proprietary treatment which provides improved consistency and even cell attachment.
- ▶ **Tissue culture treated (TC-Treated) surface** is used for the attachment and growth of anchorage-dependent cells.
- ▶ **Ultra Low Attachment surface** has a covalently bonded hydrogel designed to minimize cell attachment, protein absorption, enzyme activation and cellular activation. This surface is noncytotoxic, biologically inert and nondegradable.
- ▶ **Poly-D-lysine coated surface** can improve attachment of difficult-to-attach cells.
- ▶ **Sulfhydryl (Sulfhydryl-BIND™) binding surface** has covalently-linked maleimide groups that covalently couple to sulfhydryl groups via SH moieties. Ideal for assays requiring site-directed orientation of a biomolecule, especially antibodies.
- ▶ **Carbohydrate (Carbo-BIND™) binding surface** has hydrazide groups covalently coupled to carbohydrate groups. Ideal for assays requiring site-directed orientation of a biomolecule (oxidized antibodies, carbohydrates, and glycosylated proteins) while maintaining enzymatic or immunological activity.
- ▶ **Photo-reactive (Universal-BIND™) surface** covalently immobilizes biomolecules via abstractable hydrogens using UV illumination, resulting in a carbon-carbon bond. Although linkage is nonspecific and does not allow for site-directed orientation of a biomolecule, this surface may be useful for immobilization of double stranded DNA, antigens of unknown structure, and mixtures of biomolecules (e.g., cell lysates).
- ▶ **Amine surface** has positively charged amine groups ( $2 \times 10^{13}$  reactive sites/cm<sup>2</sup>) that can be used for covalent immobilization via bifunctional crosslinkers.

## BAR CODE CUSTOMIZATION

### 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.

### 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

### Dependable Durability

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

### Expert Advice

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

\*Information provided by CompuType, Inc.



Bar Coded Microplates

## 96 Well Microplates

Corning offers a complete line of 96 well microplates for laboratory miniaturization and automation. These microplates are available for different applications:

- ▶ 96 well assay microplates
  - General assays – Not treated, NBS™, covalent binding, high binding, flexible vinyl (PVC), and UV microplates
  - Cell-based assays – Tissue culture treated, Corning® CellBIND® Surface, poly-D-lysine, and Ultra Low Attachment polystyrene microplates
  - Immunoassays – EIA/RIA polystyrene plates
- ▶ 96 well polystyrene Stripwell™ microplates
- ▶ 96 well polypropylene storage microplates and cluster tubes

This selection guide does not include 96 well microplates for PCR and genomics. Please refer to the Corning Genomics Selection Guide for information on these products.

For additional microplate information, refer to *Selecting the Best Corning Microplate for Your Application* in the Overview section of this guide.

### 96 WELL ASSAY MICROPLATES

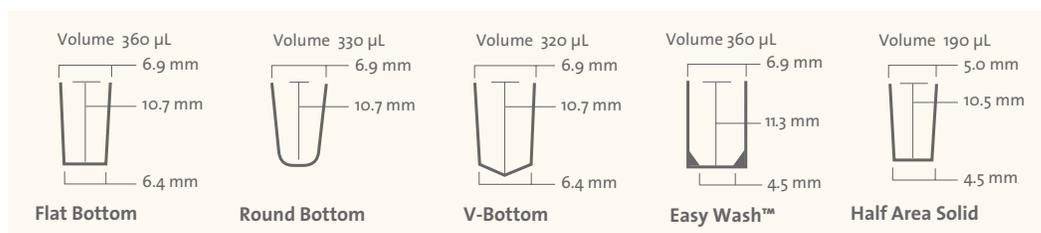
Corning offers a wide variety of assay microplates. They are organized into five groups:

- ▶ 96 Well Clear Polystyrene Microplates
- ▶ 96 Well Solid Black and White Polystyrene Microplates
- ▶ 96 Well Clear Bottom Black and White Polystyrene Microplates
- ▶ 96 Well UV Microplates
- ▶ 96 Well Clear Flexible Vinyl (PVC) Microplates

Corning 96 well polystyrene plates are offered in standard volume formats and in lower volume format (called Corning half area plates). Corning 96 well polystyrene microplates have plate dimensions (length x width x height) of 127.76 x 85.48 x 14.22 mm that meet proposed industry standards.

96 Well Plate Types	Well Bottom Shape	Total Well Volume (µL)	Recommended Working Volume (µL)
Standard 96 Well	Flat	360	75 to 200
Standard 96 Well	Round	330	75 to 200
Standard 96 Well	V	320	75 to 200
Standard 96 Well	Easy Wash™	360	75 to 200
Half area 96 Well, Solid	Flat	190	25 to 125
Half area 96 Well, Clear Bottom	Flat	205	25 to 125

### 96 Well Geometry and Dimensions



Corning® tissue culture treated microplates have the same surface treatment used on other Corning culture vessels. In addition to this traditional surface, Corning offers three additional surfaces: Corning® CellBIND® Surface treatment for improving consistency and even cell attachment, a poly-D-lysine coating for enhancing attachment of difficult-to-attach cell lines, and an Ultra Low Attachment surface for minimizing cell attachment.



96 Well Clear Microplates

## 96 Well Clear Polystyrene Microplates

- ▶ Standard 96 well plates have the following total well volumes: flat bottom – 360 µL; round bottom – 330 µL; V-bottom – 320 µL; recommended working volumes of 75 to 200 µL
- ▶ Clear solid half area microplate has well volume of 190 µL; working volume of 25 to 125 µL
- ▶ Cell culture plates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ Lids available where indicated (Information on lids and other microplate accessories can be found beginning on page 25.)

### 96 Well Clear Polystyrene Microplate Ordering Information

#### For General Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3367	Standard Plate	Round	Not Treated	Yes	1	50
3788	Standard Plate, with Lid	Round	Not Treated	Yes	20	100
3795	Standard Plate	Round	Not Treated	Yes	25	100
3798	Standard Plate	Round	Not Treated*	No	25	100
3896	Standard Plate	V	Not Treated	Yes	1	48
3897	Standard Plate	V	Not Treated	No	25	100
3898	Standard Plate	V	Not Treated*	No	25	100
3370	Standard Plate, with Lid	Flat	Not Treated	Yes	20	100
9017	Standard Plate	Flat	Not Treated	No	25	100
9018	Standard Plate	Flat	High Bind	No	25	100
3641	Standard Plate	Flat	NBS™	No	25	100
2507	Standard Plate	Flat	Carbo-BIND™	No	1	50
2509	Standard Plate	Flat	Sulfhydryl-BIND™	No	1	50
2503	Standard Plate	Flat	Universal-BIND™	No	1	50
3690	Half Area Plate	Flat	High Bind	No	25	100
3695	Half Area Plate	Flat	Not Treated	No	25	100

\*Processed to improve hydrophilicity for hemagglutination and similar assays.

#### For Cell-Based Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3360	Standard Plate, no Lid	Round	TC-Treated	Yes	25	100
3799	Standard Plate, with Lid	Round	TC-Treated	Yes	1	50
3894	Standard Plate, with Lid	V	TC-Treated	Yes	1	50
3628	Standard Plate, with Lid	Flat	TC-Treated	Yes	20	100
3596	Standard Plate, with Lid	Flat	TC-Treated	Yes	1	50
3997	Standard Plate, with Lid	Flat	TC-Treated	Yes	10	50
3598	Standard Plate, with Lid	Flat	TC-Treated	Yes	5	100
3599	Standard Plate, with Lid	Flat	TC-Treated	Yes	1	100
3585	Standard Plate, with Lid*	Flat	TC-Treated	Yes	5	50
3595	Standard Plate, with Lid*	Flat	TC-Treated	Yes	1	50
9102	8-Well Strip Plate, with Lid	Flat	TC-Treated	Yes	1	50
3665	Standard Plate, with Lid	Flat	Poly-D-Lysine	Yes**	20	100
<b>New</b> 3300	Standard Plate, with Lid	Flat	Corning CellBIND Surface	Yes	5	50
3474	Standard Plate, with Lid	Flat	Ultra Low Attachment	Yes	1	24
3696	Half Area Plate, with Lid	Flat	TC-Treated	Yes	1	50
3697	Half Area Plate, with Lid	Flat	TC-Treated	Yes	20	100

\*Special low evaporation lid

\*\*Aseptically manufactured

### Corning® CellBIND® Surface for Optimizing Cell-Based Assay Performance

- ▶ Available in 96 and 384 well black clear bottom microplates and 96 well clear solid microplates
- ▶ Surface treatment improves consistency and more even cell attachment, and may improve attachment of difficult-to-attach cell lines
- ▶ Not a coating, requires no special handling, and is stable at room temperature
- ▶ Sterilized by gamma radiation and certified nonpyrogenic

**96 Well Clear Polystyrene Microplate Ordering Information (Continued)**

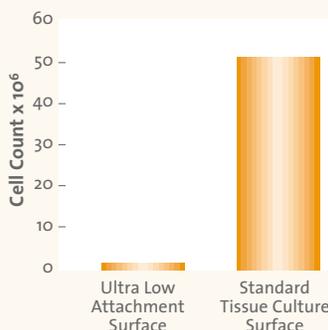
*For Immunoassays*



96 Well EIA/RIA Microplates

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3797	Standard Plate	Round	Not Treated	No	25	100
3366	Standard Plate	Round	High Bind	No	25	100
3368	Standard Plate	Easy Wash™	Not Treated	No	25	100
3369	Standard Plate	Easy Wash	High Bind	No	25	100
3591	Standard Plate	Flat	Not Treated	No	1	50
9017	Standard Plate	Flat	Not Treated	No	25	100
3361	Standard Plate, with Lid	Flat	High Bind	Yes	20	100
3590	Standard Plate	Flat	High Bind	No	1	100
9018	Standard Plate	Flat	High Bind	No	25	100

**Corning® Ultra Low Attachment Microplate** (Cat. No. 3474) has a covalently bonded hydrogel layer to minimize cell attachment, protein absorption, enzyme activation and cellular activation. The surface is noncytotoxic, biologically inert, and nondegradable.



**Comparison of Cell Attachment in Ultra Low vs. Standard Tissue Culture Treated Plates**

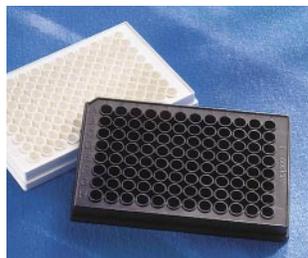
Vero cells plated at  $2.6 \times 10^6$  cells per well grown for 4 days at 37°C in a 5% CO<sub>2</sub> environment show a 99% reduction in cellular attachment vs. standard culture treated product.

**High Binding Plate Certification of Corning EIA/RIA Microplates**

Corning offers 96 well EIA/RIA plates and Stripwell™ microplates manufactured from a special medical grade polystyrene for uniform binding, high optical clarity, and low background absorption.

Certification Standards	High Binding	Medium Binding (Not Treated)
Well-to-well coefficient of variation (CV)	≤3%	≤5%
Average high and low wells from the mean	≤8%	≤15%
Background absorbance units from the mean	±0.005	±0.005

Corning high binding plates have a binding capacity of approximately 500 ng of mouse IgG/cm<sup>2</sup>. The nontreated plates have a binding capacity of approximately 250 ng of Mouse IgG/cm<sup>2</sup>. Corning tests its EIA/RIA plates on a lot-to-lot basis and the certification results for each lot are made available upon request by contacting your local Corning Life Sciences office. In addition, five ELISA Technical Bulletins are available at [www.corning.com/lifesciences](http://www.corning.com/lifesciences).



96 Well Black and White Polystyrene Microplates

## 96 Well Solid Black and White Polystyrene Microplates

- ▶ Designed to reduce well-to-well crosstalk
- ▶ White plates enhance luminescent signals and have low background luminescence and fluorescence
- ▶ Black plates have low background fluorescence and minimize light scattering
- ▶ Standard 96 well plates have the following total well volumes: flat bottom - 360  $\mu\text{L}$ ; round bottom - 330  $\mu\text{L}$ ; recommended working volumes of 75 to 200  $\mu\text{L}$
- ▶ Solid black and white half area microplates have well volumes of 190  $\mu\text{L}$ ; working volumes of 25 to 125  $\mu\text{L}$
- ▶ Tissue culture treated plates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ Lids available where indicated. (Information on lids and other microplate accessories can be found beginning on page 25.)

### 96 Well Solid Black and White Polystyrene Microplate Ordering Information

#### For General Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
<i>Black Polystyrene Microplates</i>						
3792	Standard Plate	Round	Not Treated	No	25	100
3915	Standard Plate	Flat	Not Treated	No	25	100
3925	Standard Plate	Flat	High Bind	No	25	100
3650	Standard Plate	Flat	NBS™	No	25	100
3694	Half Area Plate	Flat	Not Treated	No	25	100
3686	Half Area Plate	Flat	NBS	No	25	100
<i>White Polystyrene Microplates</i>						
3789	Standard Plate	Round	Not Treated	No	25	100
3605	Standard Plate	Round	NBS	No	25	100
3912	Standard Plate	Flat	Not Treated	No	25	100
3922	Standard Plate	Flat	High Bind	No	25	100
3600	Standard Plate	Flat	NBS	No	25	100
3693	Half Area Plate	Flat	Not Treated	No	25	100

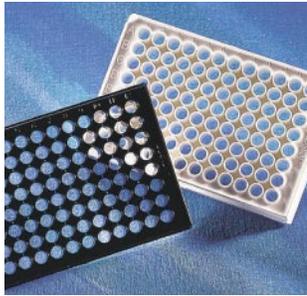
#### For Cell-Based Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
<i>Black Cell Culture Microplates</i>						
3916	Standard Plate, with Lid	Flat	TC-Treated	Yes	20	100
3875	Half Area Plate, with Lid	Flat	TC-Treated	Yes	20	100
<i>White Cell Culture Microplates</i>						
3917	Standard Plate, with Lid	Flat	TC-Treated	Yes	20	100
3362	Standard Plate, no Lid	Flat	TC-Treated	Yes	25	100
3688	Half Area Plate, with Lid	Flat	TC-Treated	Yes	20	100

#### NBS Binding Performance

NBS microplates have a nonionic hydrophilic well surface, and are ideal for minimizing protein binding in homogeneous assays.

Binding in ng/cm <sup>2</sup>	<sup>125</sup> I-IgG	<sup>125</sup> I-BSA	<sup>125</sup> I-Insulin	<sup>32</sup> P-oligo DNA	<sup>32</sup> P- $\lambda$ phage DNA
Polystyrene	400	450	310	22	6
Polypropylene	380	440	370	3	<2
NBS on Polystyrene	<2.5	<2.5	5	<2	<2



96 Well Clear Bottom Black and White Microplates

## 96 Well Clear Bottom Black and White Polystyrene Microplates

- ▶ Bottoms are 60% thinner than conventional polystyrene plates, resulting in lower background fluorescence and enabling readings down to 340 nm
- ▶ Opaque walls prevent well-to-well crosstalk
- ▶ Optically clear flat bottom permits direct microscopic viewing
- ▶ Standard 96 well plates have the following total well volume: flat bottom – 360  $\mu$ L; recommended working volume of 75 to 200  $\mu$ L
- ▶ Clear bottom half area microplate has well volume of 205  $\mu$ L; working volume of 25 to 125  $\mu$ L
- ▶ Cell culture plates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ Lids available where indicated. (Information on lids and other microplate accessories can be found beginning on page 25.)

### 96 Well Clear Bottom Black and White Polystyrene Microplate Ordering Information

#### For General Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ Cs
<i>Black Clear Bottom Polystyrene Microplates</i>						
3615	Special Optics Plate, with Lid	Flat	Not Treated	No	25	100
3631	Standard Plate	Flat	Not Treated	No	25	100
3601	Standard Plate	Flat	High Bind	No	25	100
3651	Standard Plate	Flat	NBS™	No	25	100
3880	Half Area Plate	Flat	Not Treated	No	25	100
3881	Half Area Plate	Flat	NBS	No	25	100
<i>White Clear Bottom Polystyrene Microplates</i>						
3604	Standard Plate	Flat	NBS	No	25	100
3632	Standard Plate	Flat	Not Treated	No	25	100
3883	Half Area Plate	Flat	Not Treated	No	25	100
3884	Half Area Plate	Flat	NBS	No	25	100

#### For Cell-Based Assays

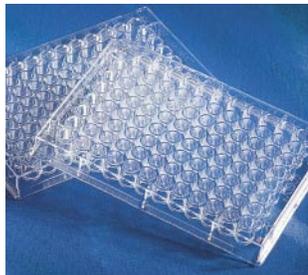
Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ Cs
<i>Black Clear Bottom Cell Culture Microplates</i>						
3603	Standard Plate, with Lid	Flat	TC-Treated	Yes	1	48
3904	Standard Plate, with Lid	Flat	TC-Treated	Yes	20	100
3614	Special Optics Plate, no Lid	Flat	TC-Treated	Yes	25	100
<b>New</b> 3340	Standard Plate, with Lid	Flat	Corning® CellBIND® Surface	Yes	5	50
3667	Standard Plate, with Lid	Flat	Poly-D-Lysine	Yes*	20	100
3372	Standard Plate, with Lid	Flat	Poly-D-Lysine	Yes	10	50
3887	Half Area Plate, no Lid	Flat	TC-Treated	Yes	25	100
3882	Half Area Plate, with Lid	Flat	TC-Treated	Yes	20	100
3682	Half Area Plate, with Lid	Flat	Poly-D-Lysine	Yes	10	50
<i>White Clear Bottom Cell Culture Microplates</i>						
3610	Standard Plate, with Lid	Flat	TC-Treated	Yes	1	48
3903	Standard Plate, with Lid	Flat	TC-Treated	Yes	20	100
3666	Standard Plate, with Lid	Flat	Poly-D-Lysine	Yes*	20	100
3886	Half Area Plate, no Lid	Flat	TC-Treated	Yes	25	100
3885	Half Area Plate, with Lid	Flat	TC-Treated	Yes	20	100

\*Aseptically manufactured

#### Tip for Improving Optical Performance in Fluorescent Assays

Corning® Special Optics 96 Well Microplates have black walls with ultra thin, clear bottoms for sharp, clear images and minimal background in fluorescent assays.





96 Well UV Microplate – Certified DNase- and RNase-free

### 96 Well UV Microplates

The Corning® 96 well UV microplate has a UV-transparent well bottom and is ideal for determining protein and/or nucleic acid concentrations.

- ▶ Certified DNase- and RNase-free
- ▶ UV-transparent bottom is molded directly to an acrylic base for greater strength and maximum leak resistance
- ▶ Total well volume: flat bottom – 360  $\mu\text{L}$ ; recommended working volume of 75 to 200  $\mu\text{L}$
- ▶ UV half area microplate has well volume of 205  $\mu\text{L}$ ; working volume of 25 to 125  $\mu\text{L}$
- ▶ Allows UV absorbance readings with low background, especially at 260 to 280 nm
- ▶ Lids are available separately. (Information on lids and other microplate accessories can be found beginning on page 25.)

#### 96 Well UV Microplate Ordering Information

Cat. No.	Plate Format	Well Bottom	Sterile	Qty/Pk	Qty/Cs
3635	Standard Plate	Flat	No	25	50
3679	Half Area Plate	Flat	No	25	50

### 96 Well Clear Flexible Vinyl (PVC) Microplates

- ▶ Untreated PVC microplates are economical plates for solution-based assays, serial dilutions, and general storage applications.
- ▶ Well volume of 250  $\mu\text{L}$  (260  $\mu\text{L}$  for V-bottom); working well volume of 50 to 150  $\mu\text{L}$
- ▶ Lids are not available.

#### 96 Well Clear Flexible PVC Microplate Ordering Information

Cat. No.	Plate Format	Well Bottom	Sterile	Qty/Pk	Qty/Cs
2897	Standard Plate	V	No	25	100
2797	Standard Plate	Round	No	25	100
2595	Standard Plate	Flat	No	25	100

#### **Tip for Reducing Reagent Use**

Corning 96 Well Half Area Microplates can save on valuable reagents by reducing the amount of reagent needed per well, while still retaining the ability to be read in standard plate readers. These microplates have a recommended working volume of 25  $\mu\text{L}$  to 125  $\mu\text{L}$  and are available untreated or with tissue culture, high bind, or NBS™ treatment.





Stripwell Microplates



Standard vs. Low Volume

**Stripwell Low Volume Microplates**

**Big Cost Savings!**

- ▶ Save 70% or more on antibody costs
- ▶ Save 50% or more on reagent costs

**Features**

- ▶ Total well volume: 190 µL
- ▶ Recommended working volume: 75 to 125 µL
- ▶ Same height/path length as a standard strip
- ▶ Standard 96 well center-to-center spacing

**Custom Stripwell Microplate Colors**



**96 WELL POLYSTYRENE STRIPWELL™ MICROPLATES**

Corning® Stripwell plates are designed for *in vitro* diagnostic assays. The flat bottom strips are designed to easily break apart and are pre-assembled in an “egg-crate” style strip holder that allows each individual well to be positioned back into the plate once broken.

- ▶ Stripwell plates have 96 well flat bottom polystyrene format
- ▶ Low volume and standard Stripwell microplates have well volumes of 190 µL and 360 µL, respectively
- ▶ 1 x 8 strips are designed to fit only one way into the strip holder, eliminating the chance of misorientation
- ▶ Accessories can be found beginning on page 25.

**Stripwell Microplates Ordering Information**

*Stripwell Low Volume Microplates*

Cat. No.	Color	Binding Property	Qty/Pk	Qty/Cs
2480	Clear	Medium	25	100
2481	Clear	High	25	100
2482	Black	Medium	25	100
2483	Black	High	25	100
2484	White	Medium	25	100
2485	White	High	25	100

*Standard Stripwell Microplates*

Cat. No.	Color	Binding Property	Qty/Pk	Qty/Cs
2592*	Clear	High	25	100
2593*	Clear	Medium	25	100
2580**	Clear	High	200	800
9102***	Clear	TC-Treated, Sterile	1	50
3913	White	Medium	25	100
3923	White	High	25	100
3914	Black	Medium	25	100
3924	Black	High	25	100

\*Product has a certified surface chemistry  
 \*\*Individual 1 x 8 Strips without frame, bulk packed  
 \*\*\*Microplates individually packaged with lid

*Surface Modified Stripwell Microplates, Clear*

Cat. No.	Description	Surface Chemistry	Well Volume	Qty/Pk	Qty/Cs
2388	Amine	Amine	360 µL	1	50
2504	Universal-BIND™ Surface	Universal	360 µL	1	50
2506	DNA-BIND™ Surface	N-oxy succinimide	360 µL	1	50
2508	Carbo-BIND™ Surface	Hydrazide	360 µL	1	50
2510	Sulphydryl-BIND™ Surface	Maleimide	360 µL	1	50

*Strip Accessories*

Cat. No.	Description	Sterile	Qty/Pk	Qty/Cs
2572	Strip Holder “egg crate”	No	5	20
2578	96 Well Strip Ejector	No	5	5

**Color Coding**

Corning offers customers the ability to color code their Stripwell microplates. Currently there are 14 colors available from which to choose on both our certified high and medium binding Stripwell plates. In addition to the clear strip, two other colors can be applied to the same plate. Color-coded Stripwell microplates are made to order and minimum order requirements do apply. If interested, please contact your local Corning representative.

## 96 WELL POLYPROPYLENE STORAGE MICROPLATES AND CLUSTER TUBES

### 96 Well Polypropylene Microplates and Storage Blocks

Corning polypropylene microplates offer both small volume and large volume (blocks) well formats to meet assay and storage requirements.

- ▶ Flat, round or V-shaped well bottom
- ▶ Feature uniform skirt heights for greater robotic gripping surface
- ▶ Solvent resistant polypropylene provides compatibility with many common organic solvents (e.g., DMSO, ethanol, methanol)
- ▶ Certified DNase- and RNase-free
- ▶ Available sterile or nonsterile
- ▶ Refer to the Microplate Accessories section for information about microplate accessory products including sealing tapes and mats.

### 96 Well Polypropylene Microplate Dimensions and Well Volumes

Well Shape	Total Well Volume (µL)	Well Depth (mm)	Well Diameter (mm)	Plate Dimensions (L x W x H) (mm)
96 Well Flat Bottom	360	10.67	6.86	127.76 x 85.48 x 14.22
96 Well Round Bottom	360	11.3	6.86	127.76 x 85.48 x 14.22
96 Well V-bottom	320	11.13	6.86	127.76 x 85.48 x 14.22
96 Well V-bottom, Expanded Volume	450	12.43	8.50	127.76 x 85.48 x 14.35
96 Well 0.5 mL Block	500	25.3	6.86	127.76 x 85.48 x 27.18
96 Well 1 mL Block	1000	39.9	6.86	127.76 x 85.09 x 41.66
96 Well 2 mL Block	2000	42.04	8.13 (width)	128.27 x 85.85 x 43.94



Corning ClearPro Microplate (Cat. No. 3371) has higher clarity than standard polypropylene plates and allows users to visually inspect their samples in each well.



96 Well Polypropylene Storage Blocks with Storage Mat

### 96 Well Polypropylene Microplate Ordering Information

Cat. No.	Plate Format	Color	Well Bottom	Sterile	Qty/Pk	Qty/Cs
3357	Standard Plate	Clear	V	Yes	25	100
3363	Standard Plate	Clear	V	No	25	100
3364	Standard Plate	Clear	Flat	No	25	100
3344	Expanded Volume Plate	Clear	V	Yes	10	50
3343	Expanded Volume Plate	Clear	V	No	10	50
3359	Standard Plate	Clear	Round	Yes	25	100
3365	Standard Plate	Clear	Round	No	25	100
3371	Corning® ClearPro™ Plate	Clear	Round	No	25	100
3356	Standard Plate	Black	Round	No	25	100
3355	Standard Plate	White	Round	No	25	100

### 96 Well Polypropylene Storage Block Ordering Information

Cat. No.	Plate Format	Well Volume	Well Bottom	Sterile	Qty/Pk	Qty/Cs
3956	0.5 mL Round Well Block	0.5 mL	V	Yes	10	50
3957	0.5 mL Round Well Block	0.5 mL	V	No	100	100
3958	1 mL Round Well Block	1 mL	Round	Yes	5	25
3959	1 mL Round Well Block	1 mL	Round	No	5	100
3960	2 mL Square Well Block	2 mL	V	Yes	5	25
3961	2 mL Square Well Block	2 mL	V	No	5	100



Cluster Tube Systems

### 96 Well Cluster Tubes

- ▶ Composed of 96 polypropylene tubes in a standard microplate format
- ▶ Feature 1.2 mL tubes that are available individually or in strips of eight tubes
- ▶ Polyethylene tube caps are available in 8-cap strips

#### 96 Well Cluster Tube Ordering Information

Cat. No.	Format	Sterile	Rack	Qty/Pk	Qty/Cs
4401	Individual	No	No	960/Bag	960
4408	8-Tube Strip	No	No	120/Bag	120
4410	Individual	No	Yes	96/Rack	960
4411	Individual	Yes	Yes	96/Rack	960
4412	8-Tube Strip	No	Yes	12/Rack	120
4413	8-Tube Strip	Yes	Yes	12/Rack	120
4418	8-Cap Strip	Yes	No	12/Bag	120

## 384 Well Microplates

Corning offers a variety of 384 well microplates for high throughput assays and storage. Microplates are grouped by application:

- ▶ 384 well assay microplates
  - General assays – Not treated, NBS™, high binding, and UV microplates
  - Cell-based assays – Tissue culture treated, Corning® CellBIND® Surface, and poly-D-lysine coated polystyrene microplates
- ▶ 384 well polypropylene storage microplates

This selection guide does not include 384 well microplates for PCR and genomics. Please refer to the Corning Genomics Selection Guide or web site ([www.corning.com/lifesciences](http://www.corning.com/lifesciences)) for further information on these products.

For additional microplate information, refer to *Selecting the Best Corning Microplate for Your Application* in the Overview section of this guide.

### 384 WELL ASSAY MICROPLATES

Corning offers a wide variety of assay microplates. They are organized into five groups:

- ▶ 384 Well Clear Polystyrene Microplates
- ▶ 384 Well Solid Black and White Polystyrene Microplates
- ▶ 384 Well Clear Bottom Black and White Polystyrene Microplates
- ▶ 384 Well UV Microplates

For assays performed in reduced volumes, Corning 384 well low volume polystyrene plates are available in solid round bottom and in black clear bottom formats.



#### Low Volume 384 Well Solid Round Bottom Microplates

Unique well design for optimal assay performance

- ▶ Raised well bottom for higher sensitivity
- ▶ Raised rim for decreased wicking and contamination
- ▶ Round bottom for better Z factor and minimized trapped air
- ▶ Conical well molded in the shape of a light cone for efficiency

384 well plate types	Well Bottom Shape	Total Well Volume (µL)	Recommended Working Volume (µL)
Standard 384 well	Flat	112	20 to 80
Low volume 384 well, solid	Round	35	5 to 20
Low volume 384 well, clear bottom	Flat	50	5 to 40

- ▶ Corning 384 well polystyrene microplates have plate dimensions (length x width x height) of 127.76 x 85.48 x 14.22 mm that meet proposed industry standards



#### 384 Well Geometry and Dimensions

Corning 384 well microplates for cell culture include tissue culture treated, Corning CellBIND Surface, and poly-D-lysine coated microplates. The tissue culture treated microplates have the same surface treatment used on other Corning cell culture vessels while the poly-D-lysine treatment improves attachment of anchorage-dependent cells. The new Corning CellBIND Surface treatment can provide improved consistency and even cell attachment.



384 Well Clear Microplates

### 384 Well Clear Polystyrene Microplates

- ▶ Total well volume of 112  $\mu$ L; working well volume of 20 to 80  $\mu$ L
- ▶ Cell culture plates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ The 384 well universal optics NBS™ plate is manufactured using an advanced polymer with high clarity and improved chemical resistant properties.
- ▶ Lids available as indicated. (Information on lids and other microplate accessories can be found beginning on page 25.)

#### 384 Well Clear Polystyrene Microplate Ordering Information

##### For General Assays

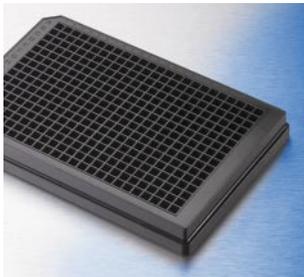
Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3702	Standard Plate	Flat	Not Treated	No	25	100
3680	Standard Plate, with Lid	Flat	Not Treated	Yes	20	100
3640	Standard Plate	Flat	NBS	No	25	100
3700	Standard Plate	Flat	High Bind	No	25	100
New 3723	Universal Optics Plate (Standard)	Flat	NBS	No	25	100

##### For Cell-Based Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3701	Clear Plate, with Lid	TC-Treated	Flat	Yes	20	100
3662	Clear Plate, with Lid	Poly-D-Lysine	Flat	Yes*	20	100

\*Aseptically manufactured.

### 384 Well Solid Black and White Polystyrene Microplates



384 Well Solid Black Microplates

- ▶ Designed to reduce well-to-well crosstalk during fluorescent and luminescent assays
- ▶ Standard 384 well plates have the following total well volume of 112  $\mu$ L; recommended working volumes of 20 to 80  $\mu$ L
- ▶ Solid, round bottom, low volume microplate has well volume of 35  $\mu$ L; working volume of 2 to 20  $\mu$ L
- ▶ Solid flat bottom, low volume microplate has well volume of 50  $\mu$ L, working volume of 5-45  $\mu$ L
- ▶ Tissue culture treated plates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ Low volume plate has well volume of 50  $\mu$ L; working volume of up to 40  $\mu$ L
- ▶ Lids are available separately. (Information on lids and other microplate accessories can be found beginning on page 25.)

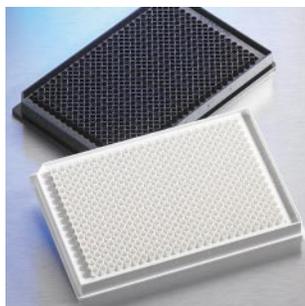
#### 384 Well Solid Black and White Polystyrene Microplate Ordering Information

##### For General Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
<i>Black Polystyrene Microplates</i>						
3710	Standard Plate	Flat	Not Treated	No	25	100
New 3573	Standard Plate, Low Flange	Flat	Not Treated	No	10	50
3654	Standard Plate	Flat	NBS	No	25	100
New 3575	Standard Plate, Low Flange	Flat	NBS	No	10	50
3708	Standard Plate	Flat	High Bind	No	25	100
3677	Low Volume Plate	Round	Not Treated	No	25	100
New 3821	Low Volume Plate	Flat	Not Treated	No	10	50
3676	Low Volume Plate	Round	NBS	No	25	100
New 3820	Low Volume Plate	Flat	NBS	No	10	50
3678	Low Volume Plate	Round	High Bind	No	25	100



384 Well Solid Low Flange Microplates



384 Well Low Volume Solid Microplates

*White Polystyrene Microplates*

	3705	Standard Plate	Flat	Not Treated	No	25	100
New	3572	Standard Plate, Low Flange	Flat	Not Treated	No	10	50
	3652	Standard Plate	Flat	NBS	No	25	100
New	3574	Standard Plate, Low Flange	Flat	NBS	No	10	50
	3703	Standard Plate	Flat	High Bind	No	25	100
	3674	Low Volume Plate	Round	Not Treated	No	25	100
	3673	Low Volume Plate	Round	NBS	No	25	100

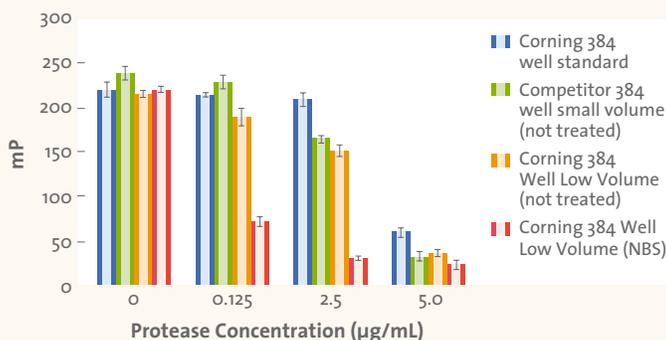
**384 Well Solid Black and White Polystyrene Microplate Ordering Information (Continued)**

*For Cell-Based Assays*

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
<i>Black Cell Culture Microplates</i>						
	3709	Solid Black Plate, with Lid	TC-Treated	Flat	Yes	20 100
New	3571	Solid Black Plate, with Lid	TC-Treated	Flat	Yes	10 50
New	3822	Low Volume Plate, with Lid	TC-Treated	Flat	Yes	10 50
<i>White Cell Culture Microplates</i>						
	3704	Solid White Plate, with Lid	TC-Treated	Flat	Yes	20 100
New	3570	Solid White Plate, with Lid	TC-Treated	Flat	Yes	10 50

**Benefits of NBS™ on Homogeneous Assays**

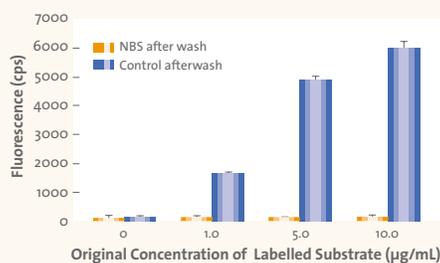
**Fluorescence-based Assay Performance with Corning® NBS™ Low Volume Microplates**



**Higher Sensitivity for Fluorescence Polarization Assays with 384 Well Corning NBS Low Volume Microplates (Cat. No. 3676)**

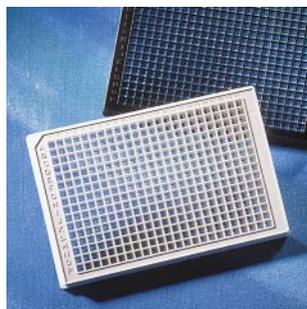
Data demonstrates *Streptomyces griseus* protease activity on BODIPY fluorescent labeled (FL) casein substrate. Protease activity is measured as a reduction in millipolarization (mP) units. A significant reduction in fluorescence polarization was observed at the lowest concentration of enzyme in a 10 µL volume.

**Reduced Nonspecific Protein Binding with Corning NBS Microplates**



**NBS Surface Significantly Reduces Nonspecific Binding of a BODIPY FL Casein Substrate to Corning Microplates**

Dilutions of BODIPY FL casein in digestion buffer were incubated for 30 min at room temperature in black Corning untreated and NBS microplates (Cat. No. 3654). Control wells contained digestion buffer only. Microplates were washed 3 times with PBS, pH 7.4, and 200 µL/well of digestion buffer alone was added to the wells. Fluorescence intensity was measured.



384 Well Clear Bottom Black and White Microplates

### 384 Well Clear Bottom Black and White Polystyrene Microplates

- ▶ Suited for fluorescent and luminescent assays using either top or bottom detection plate readers
- ▶ Standard well volume of 112  $\mu\text{L}$ ; recommended working volumes of 20 to 80  $\mu\text{L}$
- ▶ Clear bottom low volume plate has well volume of 50  $\mu\text{L}$ ; working volume of up to 40  $\mu\text{L}$
- ▶ Tissue culture treated plates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ Lids are available separately. (Information on lids and other microplate accessories can be found beginning on page 25.)

#### 384 Well Clear Bottom Black and White Microplate Ordering Information

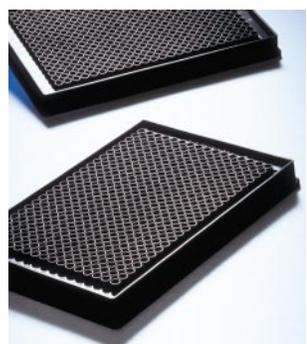
##### For General Assays

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
<i>Black Clear Bottom Microplates</i>						
3711	Standard Plate	Flat	Not Treated	No	25	100
New 3540	Low Volume	Flat	Not Treated	No	10	50
New 3544	Low Volume	Flat	NBS	No	10	50
3655	Standard Plate	Flat	NBS	No	25	100
<i>White Clear Bottom Microplates</i>						
3706	Standard Plate	Flat	Not Treated	No	25	100
3653	Standard Plate	Flat	NBS	No	25	100

##### For Cell-Based Assays (Continued)

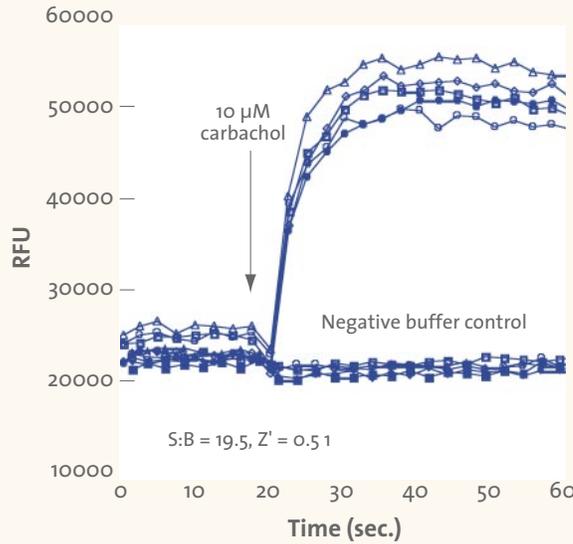
Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
<i>Black Clear Bottom Cell Culture Microplates</i>						
New 3542	Low Volume Black Plate with Clear Bottom, with Lid		TC-Treated	Flat	Yes	10 50
3712	Black Plate with Clear Bottom, with Lid		TC-Treated	Flat	Yes	20 100
New 3683	Black Plate with Clear Bottom, with Lid		Corning® CellBIND® Surface	Flat	Yes	10 50
3664	Black Plate with Clear Bottom, with Lid		Poly-D-Lysine	Flat	Yes*	20 100
3985	Black Optical Imaging Plate with Clear Bottom and Lid		TC-Treated	Flat	Yes	20 100
<i>White Clear Bottom Cell Culture Microplates</i>						
3707	White Plate with Clear Bottom, with Lid		TC-Treated	Flat	Yes	20 100
3663	White Plate with Clear Bottom, with Lid		Poly-D-Lysine	Flat	Yes*	20 100

\*Aseptically manufactured



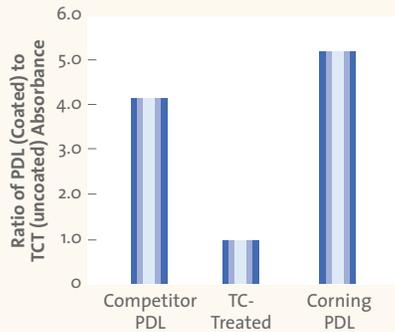
384 Well Low Volume Black Clear Bottom Microplates

**Miniaturization of Calcium Mobilization Assay in Corning 384 Well Low Volume Black Clear Bottom Tissue Culture Treated Microplate (Cat. No. 3542)**



The chromatograms shown here are the rapid increase of calcium signals in Transfected CHO-K1 cells upon the addition of carbachol (n=5 wells). Transfected CHO-K1 cells of M1WT2 (ATCC, CRL-1984) were seeded at 5,000 cells per well in 10  $\mu$ L medium and then grown in standard CO<sub>2</sub> incubator overnight (37°C). After the addition of 10  $\mu$ L calcium dye solution per well, the plates were incubated in 37°C for 30 min. After equilibrating to RT for 30 min, plates were loaded to Flexstation reader (Molecular Devices, Inc.). Five  $\mu$ L of 50  $\mu$ M carbachol solution (final concentration 10  $\mu$ M) was transferred to induce the response (or 5  $\mu$ L of plain buffer for the negative controls). The calcium signal was monitored for 60 sec. Assay was performed with Calcium 3 kit (Molecular Devices, Inc.).

**Performance of Corning® 384 Well Poly-D-Lysine Microplate (Cat. No. 3664)**



**Corning 384 Well Poly-D-Lysine (PDL) Microplates** have over 60% more cell attachment capacity than those of a leading competitor. Comparison of cell attachment capacity with Corning PDL coated plates to competitor's PDL coated plates and uncoated TC-treated plates. BHK-21 cells (1 x 10<sup>4</sup> cells/well) were incubated in 25  $\mu$ L of DMEM F-12 media in 8 replicate wells for 1 hour (37°C, 5% CO<sub>2</sub>) on 384 well black/clear bottom microplates.

Data provided by Sigma-Aldrich Corporation. Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.

### 384 Well UV Microplate

- Offers certified performance at 260 to 280 nm
- Provides consistently low background and well to well uniformity
- Performance approaches that of quartz cuvettes. Certified DNase- and RNase-free

#### 384 Well UV Microplate Ordering Information

Cat. No.	Plate Format	Well Bottom	Sterile	Qty/Pk	Qty/Cs
3675	Standard Plate	Flat	No	5	25

### 384 WELL POLYPROPYLENE STORAGE MICROPLATES

#### 384 Well Polypropylene Storage Microplates

Corning polypropylene microplates offer both small volume and large volume (blocks) well formats to meet assay and storage requirements.

#### 384 Well Polypropylene Microplate Dimensions and Well Volumes

Well Shape	Total Well Volume (µL)	Well Depth (mm)	Well Diameter (mm)	Plate Dimensions (L x W x H) (mm)
384 Well Low Volume Low Profile Plate	20	6.30	3.30	127.76 x 85.48 x 10.00
384 Well Round Bottom Plate	95	11.56	3.63	127.76 x 85.48 x 14.22
384 Well Round Bottom Block	180	25.11	3.63	127.76 x 85.48 x 27.81
384 Well V-Bottom Block	240	22.31	3.30*	127.76 x 85.48 x 24.73

\*Width of square well.

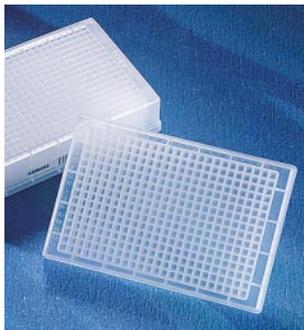
- Resistant to many common organic solvents (e.g., DMSO, ethanol, methanol)
- Black polypropylene microplate (Cat. No. 3658) is ideal for fluorescent assays requiring solvent resistance
- Certified DNase- and RNase-free
- Refer to the Microplate Accessories section for information about microplate accessory products including sealing tapes and mats.

#### 384 Well Polypropylene Microplate Ordering Information

Cat. No.	Plate Format	Well Bottom	Well Volume (µL)	Sterile	Qty/Pk	Qty/Cs
3658	Standard Plate, Black	Round	95	No	25	100
3656	Standard Plate, Clear	Round	95	Yes	25	100
3657	Standard Plate, Clear	Round	95	No	25	100
 3672	Low Volume, Low Profile, Clear	Conical	20	No	10	50

#### 384 Well Polypropylene Storage Block Ordering Information

3964	384 Well Block, Clear	Round	180	Yes	5	25
3965	384 Well Block, Clear	Round	180	No	5	100
 3342	384 Well Block, Clear	V	240	Yes	5	50
 3347	384 Well Block, Clear	V	240	No	5	50



384 Well Polypropylene Storage Microplates

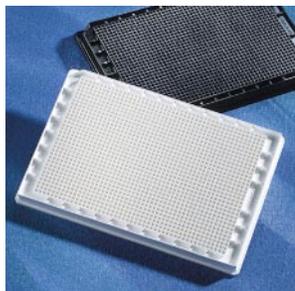
## 1536 Well Microplates

Corning® 1536 well microplates are our highest density microplates available for high throughput screening. The microplates conform to standard microplate footprint and dimensions. These microplates are offered in solid black and white polystyrene plates, with round or flat bottoms, and in black clear bottom formats.

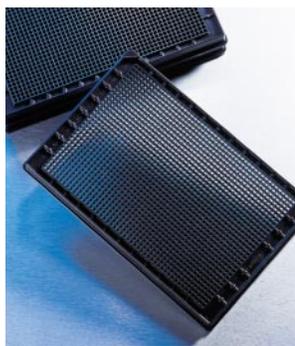
Corning also offers a ultra-thin 1536 well microplate with a total well volume of 2  $\mu$ L. This uniquely designed plate represents leading edge technology in assay miniaturization, with the length and width dimensions and microplate footprint meeting industry standards.

### 1536 Well Standard Polystyrene Microplates

- ▶ Total well volume of 10  $\mu$ L for round well plates and 12.8  $\mu$ L for flat bottom plates
- ▶ Recommended working volume of up to 8  $\mu$ L
- ▶ Round well bottoms for reduced air entrapment and improved CVs and Z factor
- ▶ Raised well bottoms for higher sensitivity
- ▶ Flood reservoir on four sides to reduce instrument contamination
- ▶ Lids are available separately. Corning lid Cat. No. 3098 is compatible with these plates. (Information on lids and other microplate accessories can be found beginning on page 25.)



1536 Well Solid Round Bottom Microplates

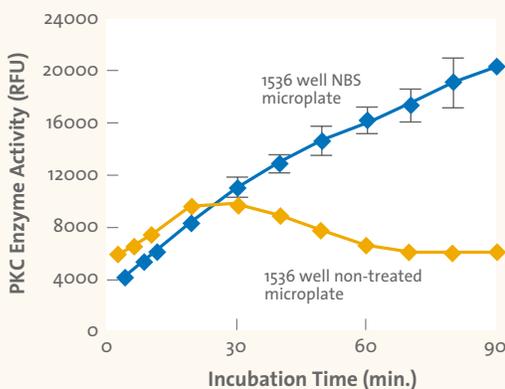


1536 Well Black Clear Bottom Microplates

### 1536 Well Polystyrene Microplate Ordering Information

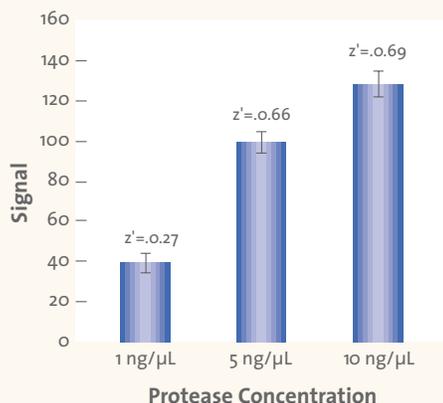
Cat. No.	Plate Format	Color	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ /Cs
<i>Solid Black and White Microplates</i>							
3937	Standard Plate	White	Round	Not Treated	No	10	50
3936	Standard Plate	Black	Round	Not Treated	No	10	50
New 3724	Standard Plate	Black	Flat	Not Treated	No	10	50
New 3726	Standard Plate, with Lid	Black	Flat	TC-Treated	Yes	10	50
New 3728	Standard Plate	Black	Flat	NBS™ Surface	No	10	50
New 3725	Standard Plate	White	Flat	Not Treated	No	10	50
New 3727	Standard Plate, with Lid	White	Flat	TC-Treated	Yes	10	50
New 3729	Standard Plate	White	Flat	NBS Surface	No	10	50
<i>Black Clear Bottom Microplates</i>							
3891	Clear Bottom	Black	Flat	Not Treated	No	10	50
3893	Clear Bottom, with Lid	Black	Flat	TC-Treated	Yes	10	50
New 3895	Clear Bottom	Black	Flat	NBS Surface	No	10	50

### Improved Kinase Performance with Corning 1536 Well Solid Black NBS Microplate (Cat. No. 3728)

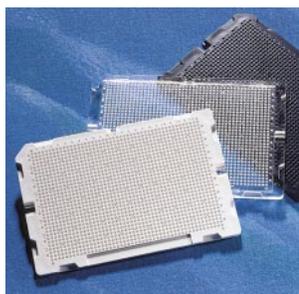


The fluorescence of the fluorogenic substrate is quenched in this assay. Upon phosphorylation, the quenching mechanism is released, resulting in a significant increase in fluorescence intensity (FI), and therefore, kinase activity can be monitored continuously. The total reaction volume was 8  $\mu$ L and contained 20 mM Tris-HCl (pH 7.6), 5 mM MgCl<sub>2</sub>, 5 mM DTT, 10% Lipid Activator, 6  $\mu$ M fluorogenic substrate, 10  $\mu$ M ATP and 50 pg/mL PKC  $\beta$ -II. Signals were measured by Acquest™ reader (Molecular Devices, Inc.). The PKC assay was developed by Applied Biosystems, Inc.

### Performance of Corning 1536 Well 10 $\mu$ L Round Well Microplate (Cat. No. 3936)



**Fluorescent Polarization Assay on Corning 1536 10  $\mu$ L Assay Microplate**  
10 ng/ $\mu$ L, 5 ng/ $\mu$ L and 1 ng/ $\mu$ L of *Streptomyces griseus* protease were incubated with 2.0 ng/ $\mu$ L of BODIPY FL casein substrate in 5  $\mu$ L volumes for 10 minutes at room temperature. (Corning 1536 Well 10  $\mu$ L black microplate, untreated, Cat. No. 3936).



1536 Well 2  $\mu$ L Polystyrene Microplates

### 1536 Well 2 $\mu$ L Polystyrene Microplates

- ▶ A variety of assays, including enzyme assays, receptor-ligand assays, and cell-based assays have been effectively performed in these plates.
- ▶ Recommended working volume of up to 1.5  $\mu$ L
- ▶ The plates are demarcated in a 8 x 12 array with each square containing 16 wells
- ▶ Eight extra wells on both the left and right sides of the plate that can be used to run controls
- ▶ Series of notches that allow stacked plates to be easily separated from one another
- ▶ Lids are available separately, Cat. No. 3849. (Information on lids and other microplate accessories can be found beginning on page 25.)

### 1536 Well 2 $\mu$ L Polystyrene Microplate Ordering Information

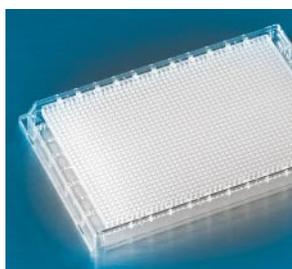
Cat. No.	Plate Format	Color	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3851	Low Volume Plate	Black	Flat	Not Treated	No	20	100
3854	Low Volume Plate	Black	Flat	TC-Treated	Yes	20	100
3850	Low Volume Plate	Clear	Flat	Not Treated	No	20	100
3853	Low Volume Plate	Clear	Flat	TC-Treated	Yes	20	100
3858	Low Volume Plate	Clear	Flat	High Bind	No	20	100
3852	Low Volume Plate	White	Flat	Not Treated	No	20	100
3855	Low Volume Plate	White	Flat	TC-Treated	Yes	20	100
3857	Low Volume Plate	White	Flat	High Bind	No	20	100

### 1536 Well Echo™ Qualified Microplate

- ▶ Corning-Labcyte joint development delivers optimal acoustic performance on the Labcyte Echo 550 Compound Reformatter
- ▶ Plates lot tested and certified to meet performance specifications
- ▶ Enhanced flatness provides low intra- and inter-plate CVs
- ▶ Low flange base is designed for bar code customization and robotic handling

### Corning 1536 Well Echo Qualified COC Microplate Ordering Information

Cat No.	Description	Surface	Sterile	Qty/Pk	Qty/Cs
3730	1536 Well Clear COC Plate	Not Treated	No	10	50



1536 Well Echo Microplate

## Protein Crystallization Microplates



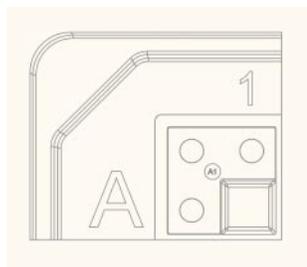
- ▶ Corning® 96 and 384 well crystallization microplates are optimized for high throughput protein crystal growth and screening
- ▶ Designed for sitting drop applications
- ▶ Meet 96 and 384 well microplate standards for automation

### Next Generation CrystalEX™ Microplates for 96 Well High Throughput Sitting Drop Protein Crystallization

- ▶ Conforms to SBS specifications for full compatibility in automated crystal screening
- ▶ Multiple formats and versatility for custom options to maximize crystal formation, identification and analysis, and harvesting
  - Choose from five unique protein well shapes
  - Available in two materials, including a special zero polarization polymer (PZero)
  - Options include 1, 3, or 5 protein wells per reservoir well
- ▶ PZero polymer is superior for zero background polarization and nonbirefringence
- ▶ COC polymer offers strong chemical compatibility and good optical clarity
- ▶ Reservoir numbers are embossed on each individual well for easy identification

### Next Generation CrystalEX Microplate Designs

One reservoir well is flanked by either one, three, or five protein wells, with SBS-standard spacing between the centers of adjacent well clusters.



Alphanumeric markers in each well cluster for easy identification under the microscope.



1 Protein Well  
1 Reservoir

3 Protein Wells  
1 Reservoir

5 Protein Wells  
1 Reservoir

Five different protein well shapes are available:



Round Bottom

Conical Flat Bottom

Flat Bottom

2 µL Conical Flat –  
Crystal Cup\*

1 µL Conical Flat –  
Crystal Cup\*

\*The crystal cup facilitates collection and centering of the protein crystals after incubation.

### Corning Next Generation CrystalEX Microplates Ordering Information

Cat. No.	Protein Well Size	Protein Well Shape	No. of Protein Wells	Material	Treated	Qty/ Pk	Qty/ Cs
3556	4 µL	Round	1	COC	No	10	50
3551	4 µL	Conical flat	1	COC	Yes*	10	50
3840	2 µL	Conical flat	3	COC	No	10	50
3552	2 µL	Round	3	PZero	No	10	50
3553	2 µL	Conical flat	3	PZero	No	10	50
3554	2 µL	Flat	3	PZero	No	10	50
3555	2 µL	Conical flat – crystal cup	3	PZero	No	10	50
3550	1 µL	Conical flat – crystal cup	3	PZero	No	10	50
3557	1 µL	Conical flat – crystal cup	5	PZero	No	10	50

\*Surface processed for hydrophilicity.



96 and 384 Well Protein Crystallization Microplates

### 96 Well CrystalEX™ Crystallization Microplates

- ▶ Features 96 large reservoir (reagent) wells and 96 corresponding protein wells
- ▶ Conical bottom protein wells allow for improved centering of the protein drop
- ▶ Compatible with manual pipettors and automation
- ▶ Novel merged well design provides efficient vapor space for protein crystallization

### 384 Well CrystalEX Crystallization Microplates

- ▶ Meets industry standards for 384 well microplate footprint and well locations
  - Ideal for fully automated crystal screening
- ▶ Features 192 reservoir wells and 192 corresponding protein wells
- ▶ Flat bottom protein wells are optimized for imaging of crystals
- ▶ Reservoir and protein wells are positioned to be compatible with multi-head dispensing equipment (up to 96 well heads)

### 96 and 384 Well CrystalEX Crystallization Microplate Ordering Information

Cat. No.	Plate Format	Reservoir Well Volume (µL)	Protein Well Volume (µL)	Sterile	Qty/Pk	Qty/Cs
3773	96 Well Plate, Conical Bottom	210	10	No	10	50
3785*	96 Well Plate, Conical Flat Bottom, Treated	210	7	No	10	50
3775	384 Well Plate, Flat Bottom	100	3.4	No	10	50

\*Surface processed for hydrophilicity



96 Well Crystallization Microplate with Universal Optical Sealing Tape

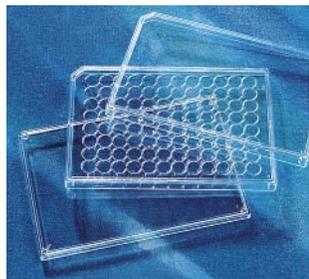
### Universal Optical Sealing Tape for Next Generation CrystalEX and CrystalEX Microplates

- ▶ High optical quality, pressure-sensitive tape ensures tight sealing to minimize evaporation
- ▶ Ideal for microscopic observation of crystals
- ▶ Suitable for use between -70°C and 100°C
- ▶ Compatible with commonly used aqueous solutions and organic solvents

### Accessory for Next Generation CrystalEX and CrystalEX Microplates

Cat. No.	Description	Qty/Pk	Qty/Cs
6575	Universal Optical Sealing Tape	100	100

## Microplate Accessories



Lids

### Lids

- ▶ All lids are made of rigid polystyrene except where indicated
- ▶ All lids have a corner notch on the A1 corner (except where indicated) to correspond to the corner notches found on all Corning® microplates
- ▶ The Universal Lid without a corner notch (Cat. No. 3098) does not need to be oriented in any particular direction to be placed on Corning plates. The lid also has a shorter skirt than standard lids
- ▶ The black Universal Lid (Cat. No. 3935) is suitable for fluorescent and other light-sensitive assays
- ▶ The DMSO-resistant cyclic-olefin lid (Cat. No. 3085) is tinted amber in color for light-sensitive assays and is 100% DMSO-resistant

### Microplate Lid Ordering Information

Cat. No.	Description	Plate Compatibility	Sterile	Qty/ Pk	Qty/ Cs
3930	Low Evaporation Lid with Corner Notch and Condensation Rings	96 well microplates only (not 2 mL block)	Yes	1	100
3931	Low Evaporation Lid with Corner Notch and Condensation Rings	96 well microplates only (not 2 mL block)	Yes	25	50
3098	Universal Lid without Corner Notch	All microplates	Yes	25	100
3099	Universal Lid with Corner Notch	All microplates	Yes	25	50
3935	Black Universal Lid with Corner Notch	All microplates	Yes	25	50
3085	DMSO-resistant Cyclic-olefin Lid without Corner Notch	All microplates	No	25	50
3849	1536 Well 2 $\mu$ L Lid	2 $\mu$ L 1536 Well Microplates only	Yes	20	100

### Optimizing Sealing Conditions on Corning Polypropylene Microplates

Corning offers an application note (Corning Literature No. ALSP-AN-011) describing effective sealing with the ABgene® ALPS-100 automated plate sealer.



Corning Storage Mat Applicator

### Storage Mats and Accessories

- ▶ Multiple formats are offered for specific and precise fit on 96 and 384 well plates and blocks
- ▶ Storage Mats Cat. Nos. 3080 and 3083 are manufactured from DMSO-resistant EVA (ethyl vinyl acetate) polymer
- ▶ Certified DNase- and RNase-free
- ▶ Can be applied manually or with Storage Mat Applicator

### Storage Mats and Accessories Ordering Information

Cat. No.	Description	Sterile	Qty/Pk	Qty/Cs
3080	Round Well Storage Mat for 96 Well Plates and Blocks	No	25	100
3083	Square Well Storage Mat for Corning 2 mL Square Blocks	No	1	50
3346	Storage Mat for Expanded Volume 96 Well Microplates	No	10	50
3341	Storage Mat for 384 Well V-Bottom Blocks	No	10	50
3081	Storage Mat Applicator	N/A	1	1



96 and 384 Well Robolids

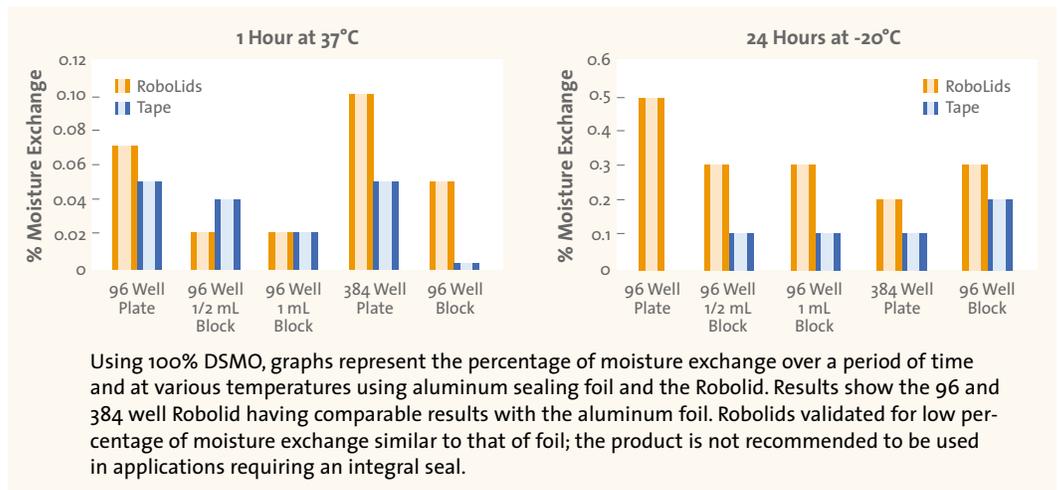
### Robolids

- ▶ Combines the sealing ability of a storage mat with the rigidity of a plastic lid
- ▶ Designed for repeated application and removal by automation and to prevent short-term evaporation
- ▶ Silicone sealing plugs for organic solvent resistance and low extractables
- ▶ Can be used manually or with automation

#### Robolid Ordering Information

Cat. No.	Description	Sterile	Qty/ Pk	Qty/Cs
3090	96 Well Robolid with Corner Notch	No	25	50
3089	384 Well Robolid with Corner Notch	No	25	50

#### Moisture Exchange with Corning® Robolids



### Sealing Tapes

- ▶ Easy application and removal for short- and long-term storage
- ▶ Provide tight seal to minimize evaporation and condensation
- ▶ Acetate Sealing Tape (Cat. No. 3095) is suitable for use between -16°C and 38°C, is transparent, and is not pierceable
- ▶ Aluminum Sealing Tape (Cat. No. 6569, 6570) is suitable for use between -80°C and 150°C, is not transparent, and is pierceable
- ▶ Breathable Sealing Tape (Cat. No. 3345) allows gas exchange across the surface
- ▶ Universal Optical Sealing Tape (Cat. No. 6575) is suitable for use between -70°C and 100°C, and is transparent



Sealing Mats and Tapes

#### Sealing Tape Ordering Information

Cat. No.	Description	Sterile	Qty/Pk	Qty/Cs
3095	Acetate Sealing Tape for all Microplates	No	100	100
6570	Aluminum Sealing Tape for 96 Well Microplates	No	100	100
6569	Aluminum Sealing Tape for 384 Well Microplates	No	100	100
<span style="background-color: orange; color: white; padding: 2px;">New</span> 3345	Breathable Sealing Tape	Yes	50	500
6575	Universal Optical Sealing Tape	No	100	100

## Technical Appendix

### Properties of Some Thermoplastics

		Polystyrene	Polyvinylchloride	Polypropylene	Cyclic Olefin Copolymer
<b>Physical Characteristics</b>	Basic Properties	Biologically inert, rigid, excellent optical qualities	Biologically inert, and flexible	Biologically inert, high chemical resistance, exceptional toughness	Biologically inert, high chemical resistance, rigid, excellent optical qualities
	Clarity	Clear	Clear	Translucent	Clear
	Autoclave Compatibility	No	Yes	Withstand several cycles	No
	Heat Distortion Point	147-175°F 64-80°C		275°F 135°C	135°C
<b>Effects of Laboratory Reagents</b>	Burning Rate	Slow	Slow	Slow	Slow
	Weak Acids	None	None	None	None
	Strong Acids	Oxidizing acids attack	Oxidizing acids attack	Oxidizing acids attack	Oxidizing acids attack
	Weak Alkalis	None		None	None
	Strong Alkalis	None		None	None
	Organic Solvents	Soluble in aromatic chlorinated hydrocarbons		Resistant below 80°C	Resistant to polar organic solvents

Portions of this table courtesy of Modern Plastics Encyclopedia. Most data are from tests by A.S.T.M. methods. Tables show averages or ranges. Many properties vary with manufacturer, formulation, testing laboratory, and specific operating conditions.

### Corning Surface Technologies Properties and Applications

Surface	Applications/Assays	Binding Interaction	Sample Properties	Performance Criteria
<b>Untreated Polystyrene</b>	<ul style="list-style-type: none"> <li>General assays</li> <li>Immunoassays (EIA/RIA)</li> </ul>	Hydrophobic	High molecular weight (>20 kD). Large or abundant hydrophobic regions.	Well to well CV ≤5%. Average high and low wells from the mean ≤15%.
<b>NBS™</b>	<ul style="list-style-type: none"> <li>Homogeneous assays (e.g., luminescent and fluorescent assays)</li> <li>Enhances signal to noise ratio</li> </ul>	Non-ionic hydrophilic	Ability to reduce significantly (<2 ng/cm <sup>2</sup> ) protein and nucleic acid binding to polymers, maintain enzyme activity, and inhibit adhesion of a number of cell lines.	At least 90% reduction of nonspecific binding of protein compared to untreated polystyrene.
<b>High Binding</b>	<ul style="list-style-type: none"> <li>General assays</li> <li>Immunoassays (EIA/RIA)</li> </ul>	Hydrophobic and ionic	Medium to high molecular weight. Positively charged. +/- hydrophobic regions.	Well to well CV ≤3%. Average high and low wells from the mean ≤8%.
<b>Tissue Culture</b>	<ul style="list-style-type: none"> <li>Cell culture</li> </ul>	Hydrophilic and ionic	Negative charged (carboxyl groups) for cell attachment.	
<b>Poly-D-Lysine</b>	<ul style="list-style-type: none"> <li>Cell-based assays</li> <li>Enhancing cell attachment, growth, and differentiation</li> <li>Numerous cell lines have been cultured on PDL coated surfaces including HEK-293, NIH3T3, L929, 3T3, and PC12</li> </ul>	Hydrophilic and ionic	Coated with PDL (70 to 150 kDa). Uniform net positive charge.	
<b>Corning® CellBIND® Surface</b>	<ul style="list-style-type: none"> <li>Cell-based assays</li> <li>Improved consistency and even cell attachment</li> </ul>	Hydrophilic and ionic	Negative charged for cell attachment	

## Selected Corning Technical Literature

All literature is available in PDF file format at [www.corning.com/lifesciences](http://www.corning.com/lifesciences).

### Assay Microplates

#### *Binding Comparison of Polymer Surfaces: Introducing Non-Binding Surface Microplates*

Corning® 96-well NBS™ microplates are ideal for homogeneous assays in high throughput screening. Studies of protein and nucleic acid binding to the NBS, when compared to polystyrene and polypropylene surfaces, demonstrate significant reduction in nonspecific binding.

#### *Chemiluminescent HRP-Based Assay Using Corning White Microplate*

A comparison of the performance of white microplates from several microplate manufacturers to that of Corning 96 well white microplate using a model HRP based luminescent assay system.

#### *Corning Non-Binding Surface Microplates for Fluorescent HTS Assays*

This 4-page technical note evaluates the efficacy of the Corning NBS microplate for use in a homogeneous fluorescence polarization protease assay.

#### *Corning Non-Binding Surface Treatment to Reduce Non-Specific Binding To Microplates*

This 2-page technical note evaluates Corning NBS microplates for Scintillation Proximity Assays.

#### *Corning 384 Well Low Volume Microplate Performance in Miniaturized Assays*

This technical note describes the performance of Low Volume microplates using a homogeneous fluorescence polarization assay at low volumes.

#### *Design and Performance of the Corning 2 µL 1536 Well Plate*

This 2-page technical note describes the design features and performance criteria for Corning 2 µL 1536 well microplates.

#### *Fluorescent Polarization Kinase Assay Miniaturization in Corning 96 Well Half Area and 384 Well Microplates*

This 4-page technical note examines assay miniaturization in Corning 96 well, 96 well Half Area, and 384 well microplates using fluorescence polarization tyrosine kinase assays.

### Cell Culture Microplates

#### *Helpful Hints to Manage Edge Effects of Cultured Cells for High Throughput Screening*

This technical note is a compendium of techniques, collected from Corning Cell Culture facilities and customers, to reduce the occurrence of irregular patterns of cell adhesion or “edge effect” in microplates.

#### *Poly-D-Lysine Coated Microplates*

This 2-page application report describes binding and performance characteristics, and provides operating protocols for Corning’s poly-D-lysine microplates.

### Immunoassay Microplates

Corning offers five ELISA Technical Bulletins:

- ▶ Immobilization Principles — Selecting the Surface
- ▶ Optimizing the Immobilization of Protein and other Biomolecules
- ▶ Effective Blocking Procedures
- ▶ Optimizing the Separation Step on 96 Well Plates
- ▶ Selecting the Detection System – Colorimetric, Fluorescent, Luminescent

### Storage Applications

#### *Corning ClearPro™ 96 Well Polypropylene Microplates*

This 4-page technical note describes the heat sealing and storage performance characteristics for Corning ClearPro microplates.

#### *New Storage Mat Applicator System Meets Customers’ Strict Storage Requirements*

This 2-page application note describes the performance characteristics of the Corning Storage Mat Applicator and the Corning products with which it is compatible.

#### *Recommendations for Heat Sealing Corning Polypropylene Storage Products Using the ABgene® Automated Laboratory Plate Sealer*

This 3-page application note describes the critical parameters for sealing Corning microplates with the ABgene Automated Laboratory Plate Sealer.

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**Красноярск**  
+7 (923) 303-0152  
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[kazan@dia-m.ru](mailto:kazan@dia-m.ru)

**Ростов-на-Дону**  
+7 (863) 303-5500  
[rnd@dia-m.ru](mailto:rnd@dia-m.ru)

**Екатеринбург**  
+7 (912) 658-7606  
[ekb@dia-m.ru](mailto:ekb@dia-m.ru)

**Кемерово**  
+7 (923) 158-6753  
[kemerovo@dia-m.ru](mailto:kemerovo@dia-m.ru)

**Армения**  
+7 (094) 01-0173  
[armenia@dia-m.ru](mailto:armenia@dia-m.ru)

