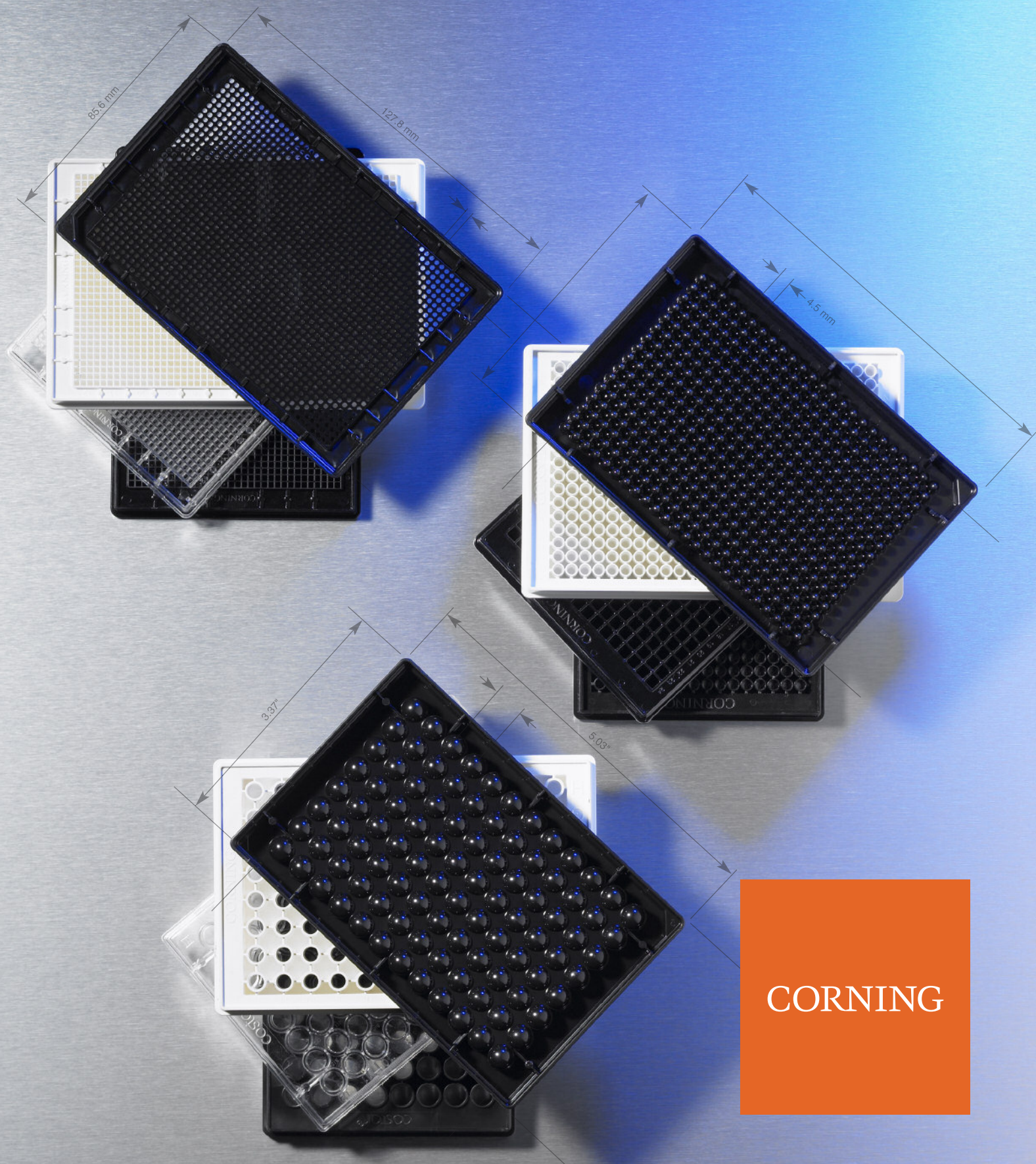


Corning® Microplate Selection Guide

For Assays and Drug Discovery



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** 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

For additional product information, please visit **www.corning.com/lifesciences**, or call 1.800.492.1110. Customers outside the United States, please call 1.978.442.2200 or contact your local support office. See back cover.

Ordering Information

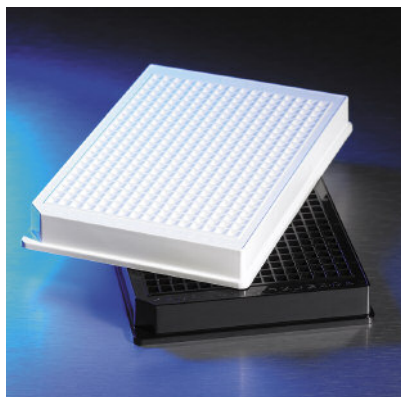
Corning products are available through any authorized Corning support office or distributor. Please see our web site for a complete listing.

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.

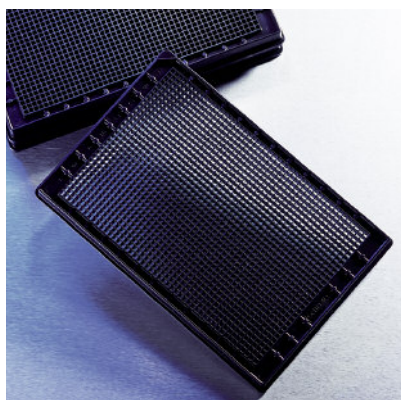
The Corning logo consists of a solid orange square. Inside the square, the word "CORNING" is written in a white, sans-serif, all-caps font, centered horizontally and vertically.

CORNING

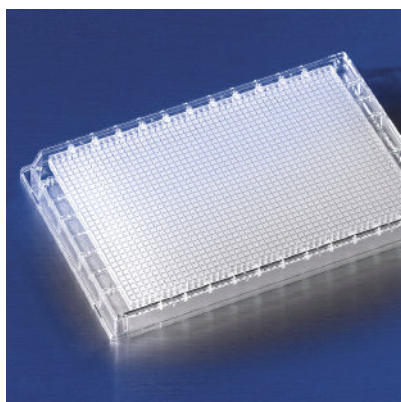
Microplates



384 Well Low Flange Microplate, page 14



1536 Well Black Clear Bottom Microplates, page 17



1536 Well Echo™ Qualified Microplates, page 18

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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 2008 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.

THE EQUIPMENT COMPATIBILITY PROGRAM

Quality and Compatibility, Only from Corning.

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.

Corning microplates offer compatibility with a wide range of laboratory instrumentation, including microplate readers, microplate washers, liquid handling instruments, automation accessories, and robotic systems. To make it easy to identify the Corning microplates that perform well with your instruments, we've assembled an Equipment Reference Guide with the help of manufacturers from throughout the industry. The Guide is available at www.corning.com/lifesciences. To ensure the accuracy of this reference guide, we invited leading manufacturers to test our microplates on their instruments using extensive criteria for fit and function. For example, a microplate reader manufacturer would have tested a Corning microplate for proper fit in the microplate carrier, suitable optical performance, and compatibility with all of the instrument's accessories, including microplate stackers and bar code readers. If the microplate met all criteria, the manufacturer then signed a form certifying that the microplate was tested for fit and function and found compatible with their instrument and all relevant accessories. So you have their assurance as well as ours that the Corning microplates you choose will perform as needed. Please use this Equipment Reference Guide with confidence.

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 microplates 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.

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 microplates 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 microplate 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
Flat bottom	■	■	■	■	■	■
Round bottom	■				■	■
V-bottom	■					
Easy Wash bottom	■					

Detailed information about well volume, working volumes, and microplate 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

Microplate Material	Microplate Format					
	96 Well	96 Well Stripwell	Half Area 96 Well	384 Well	Low Volume 384 Well	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 microplates 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 microplates 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 microplates. The polypropylene material is also highly resistant to many commonly used solvents.
- ▶ **Flexible vinyl (PVC) microplates** are economical, nonsterile general assay 96 well microplates. 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
<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 Surface	■					
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.
- ▶ **Sulphydryl (Sulphydryl-BIND™) binding surface** has covalently-linked maleimide groups that covalently couple to sulphydryl 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 (2×10^{13} reactive sites/cm²) that can be used for covalent immobilization via bifunctional crosslinkers.

BAR CODE CUSTOMIZATION

New

Generic Bar Codes

Corning now offers a line of generic bar coded microplates to better meet the demands of your screening needs (see list of available microplates on back)

- ▶ No lead time: microplates are in stock and ready to ship
- ▶ Surface identification: The surface treatment of the microplate is identified in the human readable portion of the bar code:
 - NT = Not Treated
 - TC = Tissue Culture Treated
 - CB = Corning CellBIND® Surface
 - NB = Nonbinding Surface
- ▶ Labels applied to all 4 sides of the microplate to ensure usability regardless of scanner location
- ▶ Each microplate is specially treated to reduce the impact of static build-up
- ▶ Code 128 bar code format ensures compatibility with most bar code scanning and software systems



Generic Bar Code Microplate

Custom Designed Bar Codes

Corning will assist in designing and implementing a bar code label to meet your exact specifications. We can 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:

- ▶ 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.

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 microplates (medium and high binding)
- 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 (page 3).

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 microplates are offered in standard volume formats and in lower volume format (called Corning Half Area microplates). 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 Microplates
Color Key

Round bottom

V-bottom

Flat bottom

Flat bottom Easy Wash

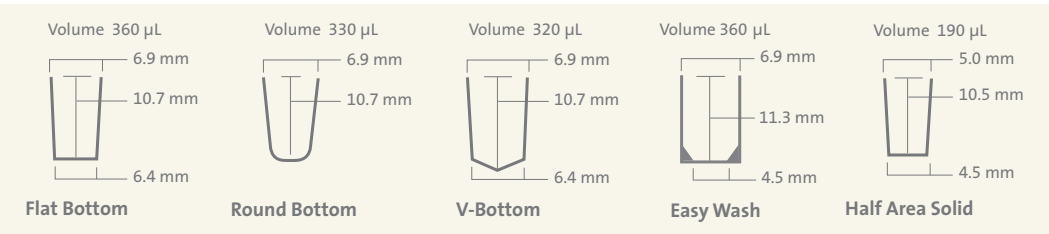
Flat bottom Half Area

V-bottom expanded volume

Conical bottom

96 Well Plate Types	Well Bottom Shape	Total Well Volume (μL)	Recommended Working Volume (μL)
Standard	Flat	360	75 to 200
Standard	Round	330	75 to 200
Standard	V	320	75 to 200
Standard	Easy Wash™	360	75 to 200
Half Area, solid	Flat	190	25 to 125
Half Area, 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 EIA/RIA Microplates

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 Microplates

- ▶ Cell culture microplates 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 21.)

96 Well Clear Polystyrene Microplate Ordering Information

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ Cs
3360	Standard	Round	TC-treated	Yes	25	100
3366	Standard	Round	High Bind	No	25	100
3367	Standard	Round	Not treated	Yes	1	50
3788	Standard, with lid	Round	Not treated	Yes	20	100
3795	Standard	Round	Not treated	Yes	25	100
3798	Standard	Round	Not treated*	No	25	100
3797	Standard	Round	Not treated	No	25	100
3799	Standard, with lid	Round	TC-treated	Yes	1	50
3894	Standard, with lid	V	TC-treated	Yes	1	50
3896	Standard	V	Not treated	Yes	1	48
3897	Standard	V	Not treated	No	25	100
3898	Standard	V	Not treated*	No	25	100
2503	Standard	Flat	Universal-BIND™	No	1	50
2507	Standard	Flat	Carbo-BIND™	No	1	50
2509	Standard	Flat	Sulfhydryl-BIND™	No	1	50
3300	Standard, with lid	Flat	Corning® CellBIND® Surface	Yes	5	50
3361	Standard, with lid	Flat	High Bind	Yes	20	100
3370	Standard, with lid	Flat	Not treated	Yes	20	100
3474	Standard, with lid	Flat	Ultra-Low Attachment Surface	Yes	1	24
3585	Standard, with lid**	Flat	TC-treated	Yes	5	50
3590	Standard	Flat	High Bind	No	1	100
3591	Standard	Flat	Not treated	No	1	50
3595	Standard, with lid**	Flat	TC-treated	Yes	1	50
3596	Standard, with lid	Flat	TC-treated	Yes	1	50
3598	Standard, with lid	Flat	TC-treated	Yes	5	100
3599	Standard, with lid	Flat	TC-treated	Yes	1	100
3628	Standard, with lid	Flat	TC-treated	Yes	20	100
3641	Standard	Flat	NBS™	No	25	100
3841	Standard, with lid	Flat	Poly-D-Lysine	Yes***	20	100
3997	Standard, with lid	Flat	TC-treated	Yes	10	50
9017	Standard	Flat	Not treated	No	25	100
9018	Standard	Flat	High Bind	No	25	100
3690	Half Area	Flat	High Bind	No	25	100
3695	Half Area	Flat	Not treated	No	25	100
3696	Half Area, with lid	Flat	TC-treated	Yes	1	50
3697	Half Area, with lid	Flat	TC-treated	Yes	20	100
3368	Standard	Easy Wash™	Not treated	No	25	100
3369	Standard	Easy Wash	High Bind	No	25	100

*Processed to improve hydrophilicity for hemagglutination and similar assays.

**Special low evaporation lid

***Aseptically manufactured



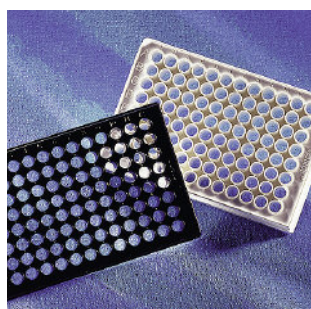
96 Well Black and White Polystyrene Microplates

96 Well Solid Black and White Polystyrene Microplates

- Designed to reduce well-to-well crosstalk
- White microplates enhance luminescent signals and have low background luminescence and fluorescence
- Black microplates have low background fluorescence and minimize light scattering

96 Well Solid Black and White Polystyrene Microplate Ordering Information

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3605	Standard	White	Round	NBS	No	25	100
3789	Standard	White	Round	Not treated	No	25	100
3792	Standard	Black	Round	Not treated	No	25	100
3362	Standard	White	Flat	TC-treated	Yes	25	100
3600	Standard	White	Flat	NBS™	No	25	100
3650	Standard	Black	Flat	NBS	No	25	100
3912	Standard	White	Flat	Not treated	No	25	100
3915	Standard	Black	Flat	Not treated	No	25	100
3916	Standard, with lid	Black	Flat	TC-treated	Yes	20	100
3917	Standard, with lid	White	Flat	TC-treated	Yes	20	100
3922	Standard	White	Flat	High Bind	No	25	100
3925	Standard	Black	Flat	High Bind	No	25	100
3990	Standard	White	Flat	NBS	No	5	25
3991	Standard	Black	Flat	NBS	No	5	25
3642	Half Area	White	Flat	NBS	No	25	100
3686	Half Area	Black	Flat	NBS	No	25	100
3688	Half Area, with lid	White	Flat	TC-treated	Yes	20	100
3693	Half Area	White	Flat	Not treated	No	25	100
3694	Half Area	Black	Flat	Not treated	No	25	100
3875	Half Area, with lid	Black	Flat	TC-treated	Yes	20	100
3992	Half Area	White	Flat	NBS	No	5	25
3993	Half Area	Black	Flat	NBS	No	5	25



96 Well Clear Bottom Black and White Microplates

96 Well Clear Bottom Black and White Polystyrene Microplates

- Bottoms are 60% thinner than conventional polystyrene microplates, 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

96 Well Clear Bottom Black and White Polystyrene Microplate Ordering Information

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3340	Standard, with lid	Black	Flat	Corning® CellBIND® Surface	Yes	5	50
3372	Standard, with lid	Black	Flat	Poly-D-Lysine	Yes	10	50
3601	Standard	Black	Flat	High Bind	No	25	100
3603	Standard, with lid	Black	Flat	TC-treated	Yes	1	48
3604	Standard	White	Flat	NBS	No	25	100
3610	Standard, with lid	White	Flat	TC-treated	Yes	1	48
3614	Special Optics	Black	Flat	TC-treated	Yes	25	100
3615	Special Optics, with lid	Black	Flat	Not treated	No	25	100
3631	Standard	Black	Flat	Not treated	No	25	100
3632	Standard	White	Flat	Not treated	No	25	100
3651	Standard	Black	Flat	NBS	No	25	100
3843	Standard, with lid	White	Flat	Poly-D-Lysine	Yes*	20	100
3842	Standard, with lid	Black	Flat	Poly-D-Lysine	Yes*	20	100

96 Well Clear Bottom Black and White Polystyrene Microplate Ordering Information (Continued)

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3903	Standard, with lid	White	Flat	TC-treated	Yes	20	100
3904	Standard, with lid	Black	Flat	TC-treated	Yes	20	100
3995	Standard	White	Flat	NBS™	No	5	25
3998	Standard, with lid	Black	Flat	Poly-D-Lysine	Yes	5	25
3721	Half Area	Black	Flat	TC-treated	Yes	5	25
3880	Half Area	Black	Flat	Not treated	No	25	100
3881	Half Area	Black	Flat	NBS	No	25	100
3882	Half Area, with lid	Black	Flat	TC-treated	Yes	20	100
3883	Half Area	White	Flat	Not treated	No	25	100
3884	Half Area	White	Flat	NBS	No	25	100
3885	Half Area, with lid	White	Flat	TC-treated	Yes	20	100
3886	Half Area	White	Flat	TC-treated	Yes	25	100
3887	Half Area	Black	Flat	TC-treated	Yes	25	100
3994	Half Area	White	Flat	NBS	No	5	25

*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 µL; recommended working volume of 75 to 200 µL
- UV half area microplate has well volume of 205 µL; working volume of 25 to 125 µL
- 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 21.)

96 Well UV Microplate Ordering Information

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

Tip for Reducing Reagent Use

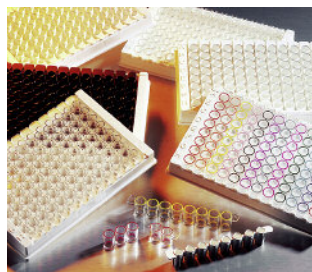
Corning 96 Well Half Area Microplates can save on valuable reagents by reducing the amount of reagent needed per well, while still retaining the ability to be read in standard microplate readers. These microplates have a recommended working volume of 25 µL to 125 µL and are available untreated or with tissue culture, High Bind, or NBS treatment.

96 Well Clear Flexible Vinyl (PVC) Microplates

- Untreated PVC microplates are economical microplates for solution-based assays, serial dilutions, and general storage applications.
- Well volume of 250 µL (260 µL for V-bottom); working well volume of 50 to 150 µL
- Lids are not available.

96 Well Clear Flexible PVC Microplate Ordering Information

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



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 μ L
- ▶ Recommended working volume: 75 to 125 μ L
- ▶ 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 microplates 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 microplate once broken.

- ▶ Stripwell microplates have 96 well flat bottom polystyrene format
- ▶ Low volume and standard Stripwell microplates have well volumes of 190 μ L and 360 μ L, 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 21.

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 μ L	1	50
2504	Universal-BIND™ Surface	Universal	360 μ L	1	50
2506	DNA-BIND™ Surface	N-oxy succinimide	360 μ L	1	50
2508	Carbo-BIND™ Surface	Hydrazide	360 μ L	1	50
2510	Sulfhydryl-BIND™ Surface	Maleimide	360 μ L	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 microplates. In addition to the clear strip, two other colors can be applied to the same microplate. 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

96 Well Polypropylene Microplate Ordering Information

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

*Upgraded features include: superior clear polypropylene, lowered perimeter ridge for improved sealing, and added rigidity and dimensional stability for improved automated handling.



96 Well Polypropylene Storage Blocks with Storage Mat

96 Well Polypropylene Storage Block Ordering Information

Cat. No.	Plate Format	Well Volume	Well Bottom	Sterile	Qty/Pk	Qty/Cs
3958	1 mL round well block	1 mL	Round	Yes	5	25
3959	1 mL round well block	1 mL	Round	No	5	100
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
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) 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 (page 3).

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 microplates are available in solid round bottom and in black clear bottom formats.



Low Volume 384 Well Solid Round Bottom Microplates

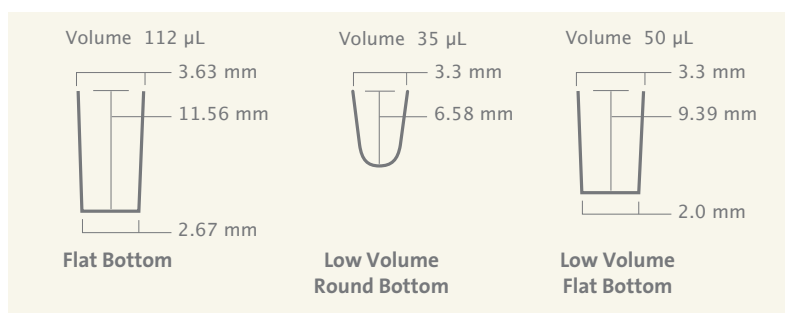
Unique well design for optimal assay performance

- ▶ 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 Microplate Types	Well Bottom Shape	Total Well Volume (μL)	Recommended Working Volume (μL)
Standard	Flat	112	20 to 80
Low Volume, solid	Round	35	5 to 20
Low Volume, clear bottom	Flat	50	5 to 40

- ▶ Corning 384 well polystyrene microplates have microplate 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 Microplates Color Key

	Round bottom
	V-Bottom
	Flat bottom
	Conical bottom

384 Well Clear Polystyrene Microplates

- ▶ Total well volume of 112 μ L; working well volume of 20 to 80 μ L
- ▶ Cell culture microplates are sterilized by gamma radiation and certified nonpyrogenic
- ▶ The 384 well Universal Optics NBS™ microplate 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 21.)

384 Well Clear Polystyrene Microplate Ordering Information

Cat. No.	Plate Format	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ Qty/Cs
3640	Standard	Flat	NBS	No	25	100
3640BC	Standard, with bar code labels	Flat	NBS	No	25	100
3844	Clear, with lid	Flat	Poly-D-Lysine	Yes*	20	100
3680	Standard, with lid	Flat	Not treated	Yes	20	100
3700	Standard	Flat	High Bind	No	25	100
3701	Clear, with lid	Flat	TC-treated	Yes	20	100
3702	Standard	Flat	Not treated	No	25	100
3702BC	Standard, with bar code labels	Flat	Not treated	No	25	100
3723	Universal Optics (standard)	Flat	NBS	No	25	100

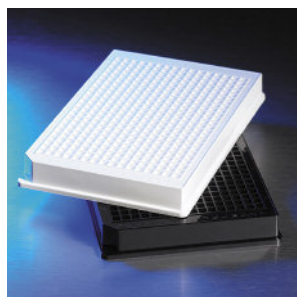
*Aseptically manufactured.

384 Well Solid Black and White Polystyrene Microplates

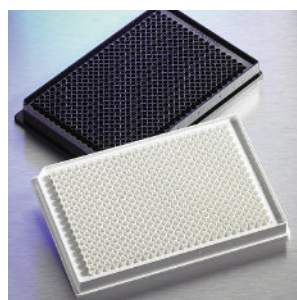
- ▶ Designed to reduce well-to-well crosstalk during fluorescent and luminescent assays

384 Well Solid Black and White Polystyrene Microplate Ordering Information

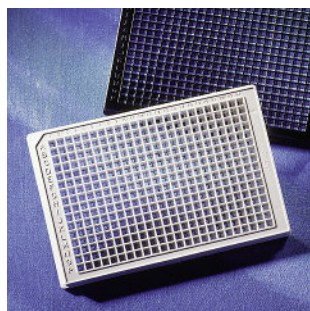
Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ Cs
3673	Low Volume	White	Round	NBS	No	25	100
3674	Low Volume	White	Round	Not treated	No	25	100
3676	Low Volume	Black	Round	NBS	No	25	100
3677	Low Volume	Black	Round	Not treated	No	25	100
3678	Low Volume	Black	Round	High Bind	No	25	100
3570	Solid white, with lid	White	Flat	TC-treated	Yes	10	50
3571	Solid black, with lid	Black	Flat	TC-treated	Yes	10	50
3572	Standard, low flange	White	Flat	Not treated	No	10	50
3573	Standard, low flange	Black	Flat	Not treated	No	10	50
3574	Standard, low flange	White	Flat	NBS	No	10	50
3574BC	Standard, low flange, with bar code labels	White	Flat	NBS	No	10	50
3575	Standard, low flange	Black	Flat	NBS	No	10	50
3575BC	Standard, low flange, with bar code labels	Black	Flat	NBS	No	10	50
3820	Low Volume	Black	Flat	NBS	No	10	50
3821	Low Volume	Black	Flat	Not treated	No	10	50
3821BC	Low Volume, with bar code labels	Black	Flat	Not treated	No	10	50
3822	Low Volume, with lid	Black	Flat	TC-treated	Yes	10	50
3824	Low Volume	White	Flat	NBS	No	10	50
3824BC	Low Volume, with bar code labels	White	Flat	NBS	No	10	50
3826	Low Volume, with lid	White	Flat	TC-treated	Yes	10	50
3826BC	Low Volume, with lid and bar code labels	White	Flat	TC-treated	Yes	10	50



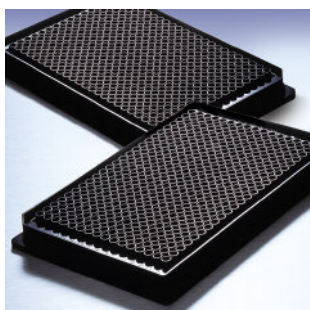
384 Well Solid Low Flange Microplates



384 Well Low Volume Solid Microplates



384 Well Clear Bottom Black and White Microplates



384 Well Low Volume Black Clear Bottom Microplates

384 Well Clear Bottom Black and White Polystyrene Microplates

- Suited for fluorescent and luminescent assays using either top or bottom detection microplate readers

384 Well Clear Bottom Black and White Microplate Ordering Information

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/Pk	Qty/Cs
3540	Low Volume	Black	Flat	Not treated	No	10	50
3542	Low Volume, clear bottom, with lid	Black	Flat	TC-treated	Yes	10	50
3544	Low Volume	Black	Flat	NBS	No	10	50
3643	Low Volume	Black	Flat	Poly-D-Lysine	Yes	10	50
3653	Standard	White	Flat	NBS	No	25	100
3846	Clear bottom, with lid	White	Flat	Poly-D-Lysine	Yes*	20	100
3845	Clear bottom, with lid	Black,	Flat	Poly-D-Lysine	Yes*	20	100
3655	Standard	Black	Flat	NBS	No	25	100
3683	Clear bottom, with lid	Black	Flat	CellBIND® Corning® Surface	Yes	10	50
3706	Standard	White	Flat	Not treated	No	25	100
3707	Clear bottom, with lid	White	Flat	TC-treated	Yes	20	100
3711	Standard	Black	Flat	Not treated	No	25	100
3712	Clear bottom, with lid	Black	Flat	TC-treated	Yes	20	100
3985	Optical Imaging, with clear bottom and lid	Black	Flat	TC-treated	Yes	20	100
3985BC	Optical Imaging, with clear bottom, lid and bar code labels	Black	Flat	TC-treated	Yes	20	100

*Aseptically manufactured

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	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 Storage Microplates

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)
Low Volume, low profile	20	6.30	3.30	127.76 x 85.48 x 10.00
Round bottom	95	11.56	3.63	127.76 x 85.48 x 14.22
Round bottom block	180	25.11	3.63	127.76 x 85.48 x 27.81
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
3656	Standard, clear	Round	95	Yes	25	100
3657	Standard, clear	Round	95	No	25	100
3658	Standard, black	Round	95	No	25	100
3672	Low Volume, low profile, clear	Conical	20	No	10	50

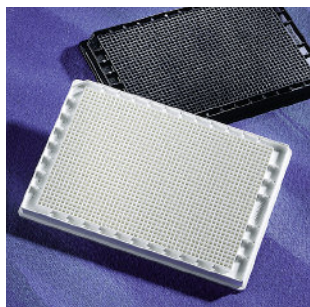
384 Well Polypropylene Storage Block Ordering Information

Cat. No.	Plate Format	Well Bottom	Well Volume (μL)	Sterile	Qty/ Pk	Qty/ Cs
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

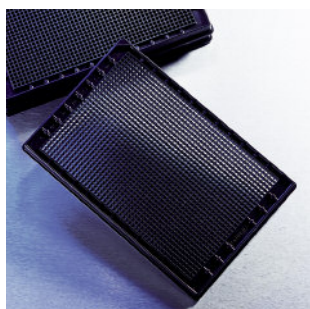
1536 Well Microplates

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 microplates, 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 µL. This uniquely designed microplate represents leading edge technology in assay miniaturization, with the length and width dimensions and microplate footprint meeting industry standards.



1536 Well Solid Round Bottom Microplates



1536 Well Black Clear Bottom Microplates

1536 Well Microplates Color Key

	Round bottom
	Flat bottom

1536 Well Standard Polystyrene Microplates

- ▶ Total well volume of 10 µL for round well microplates and 12.8 µL for flat bottom microplates
- ▶ Recommended working volume of up to 8 µL
- ▶ 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 microplates. (Information on lids and other microplate accessories can be found beginning on page 21.)

1536 Well Polystyrene Microplate Ordering Information

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ /Cs
3936	Standard	Black	Round	Not treated	No	10	50
3937	Standard	White	Round	Not treated	No	10	50
3724	Standard	Black	Flat	Not treated	No	10	50
3724BC	Standard, with bar code labels	Black	Flat	Not treated	No	10	50
3725	Standard	White	Flat	Not treated	No	10	50
3725BC	Standard, with bar code labels	White	Flat	Not treated	No	10	50
3726	Standard, with lid	Black	Flat	TC-treated	Yes	10	50
3726BC	Standard, with lid and bar code labels	Black	Flat	TC-treated	Yes	10	50
3727	Standard, with lid	White	Flat	TC-treated	Yes	10	50
3727BC	Standard, with lid and bar code labels	White	Flat	TC-treated	Yes	10	50
3728	Standard	Black	Flat	NBS™ Surface	No	10	50
3728BC	Standard, with lid and bar code labels	Black	Flat	NBS Surface	No	10	50
3729	Standard	White	Flat	NBS Surface	No	10	50
3729BC	Standard, with bar code labels	White	Flat	NBS Surface	No	10	50
3731	Standard	White	Flat	Corning CellBIND® Surface	Yes	10	50
3731BC	Standard, with bar code labels	White	Flat	Corning CellBIND Surface	Yes	10	50
7246	High base, solid, without logo or lettering	Black	Flat	Not treated	No	10	50
7247	High base, solid, without logo or lettering	White	Flat	Not treated	No	10	50
7248	High base, solid, without logo or lettering	Black	Flat	TC-treated	Yes	10	50
7249	High base, solid, without logo or lettering	White	Flat	TC-treated	Yes	10	50
3891	Clear bottom	Black	Flat	Not treated	No	10	50

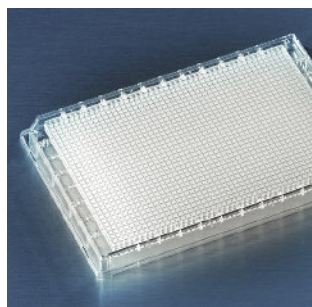
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1536 Well Polystyrene Microplate Ordering Information (Continued)

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ /Cs
3891BC	Clear bottom, with bar code labels	Black	Flat	Not treated	No	10	50
3893	Clear bottom, with lid	Black	Flat	TC-treated	Yes	10	50
3893BC	Clear bottom, with lid and bar code labels	Black	Flat	TC-treated	Yes	10	50
3895	Clear bottom	Black	Flat	NBS Surface	No	10	50

1536 Well Low Base Polystyrene Microplate Ordering Information

Cat. No.	Plate Format	Plate Color	Well Bottom	Surface Treatment	Sterile	Qty/ Pk	Qty/ /Cs
3835	Low base, clear bottom, without logo or lettering	Black	Flat	Not treated	No	20	100
3836	Low base, clear bottom, without logo or lettering	Black	Flat	TC-treated	Yes	20	100
3833	Low base, clear bottom, without logo or lettering	Black	Flat	Corning® CellBIND® Surface	Yes	20	100
3831	Clear bottom	Black	Flat	Not treated	No	10	50
3838	Clear bottom	Black	Flat	TC-treated	Yes	10	50
3838BC	Low base, clear bottom with lid and bar code labels	Black	Flat	TC-treated	Yes	10	50
3832	Clear bottom	Black	Flat	Corning CellBIND Surface	Yes	10	50
3832BC	Low base, clear bottom with lid and bar code labels	Black	Flat	Corning CellBIND Surface	Yes	10	50



1536 Well Echo Microplate

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	Well Bottom	Surface	Sterile	Qty/Pk	Qty/Cs
3730	1536 Well Clear COC	Flat	Not treated	No	10	50

COC = Cyclic olefin copolymer

Protein Crystallization Microplates



96 Well CrystalEX Microplates

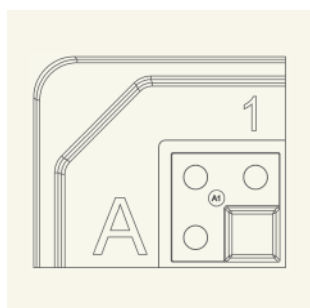
- ▶ Corning® 96 and 384 well crystallization microplates are optimized for high-throughput protein crystal growth and screening
- ▶ Designed for sitting drop applications
- ▶ Meet 96 and 384 well microplate standards for automation

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

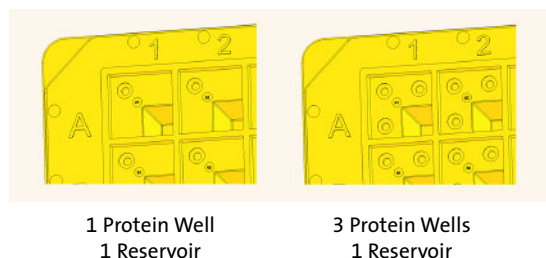
- ▶ Conforms to ANSI/SBS specifications for full compatibility in automated crystal screening
- ▶ Multiple formats and versatility for custom options to maximize crystal formation, identification and analysis, and harvesting
 - Choose from four unique protein well shapes
 - Options include 1 or 3 protein wells per reservoir well
- ▶ Cyclic olefin copolymer offers strong chemical compatibility and good optical clarity
- ▶ Reservoir numbers are embossed on each individual well for easy identification

Next Generation CrystalEX Microplate Designs

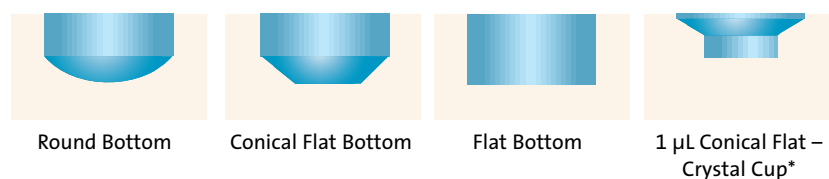
One reservoir well is flanked by either one or three protein wells, with ANSI/SBS-standard spacing between the centers of adjacent well clusters.



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



Four different protein well shapes are available:

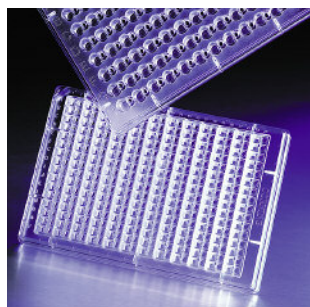


*The crystal cup facilitates collection and centering of the protein crystals after incubation.

Corning Next Generation CrystalEX Microplates Ordering Information

Cat. No.	Protein Well Size	Protein Well Shape	No. of Protein Wells	Treated	Qty/ Pk	Qty/ Cs
3556	4 µL	Round	1	No	10	50
3551	4 µL	Conical flat	1	Yes*	10	50
3552	2 µL	Round	3	No	10	50
3553	2 µL	Conical flat	3	No	10	50
3550	1 µL	Conical flat – crystal cup	3	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

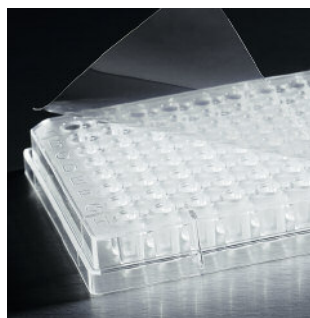
384 Well CrystalEX Crystallization Microplates

- 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	Well Bottom	Reservoir Well Volume (μL)	Protein Well Volume (μL)	Sterile	Qty/Pk	Qty/Cs
3773	96 well	Conical	210	10	No	10	50
3785*	96 well, treated	Conical, flat	210	7	No	10	50
3775	384 well	Flat	100	3.4	No	10	50

*Surface processed for hydrophilicity



96 Well Crystallization Microplate with Universal Optical Sealing Tape

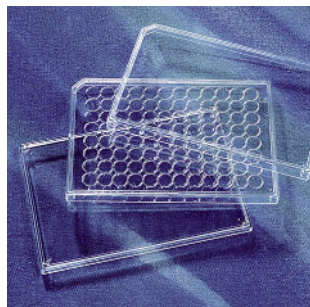
Universal Optical Sealing Tape for Next Generation CrystalEX and CrystalEX Microplates

- 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

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 microplate sealer.



Corning Storage Mat Applicator

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 microplates. 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

Storage Mats and Accessories

- ▶ Multiple formats are offered for specific and precise fit on 96 and 384 well microplates 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 microplates 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

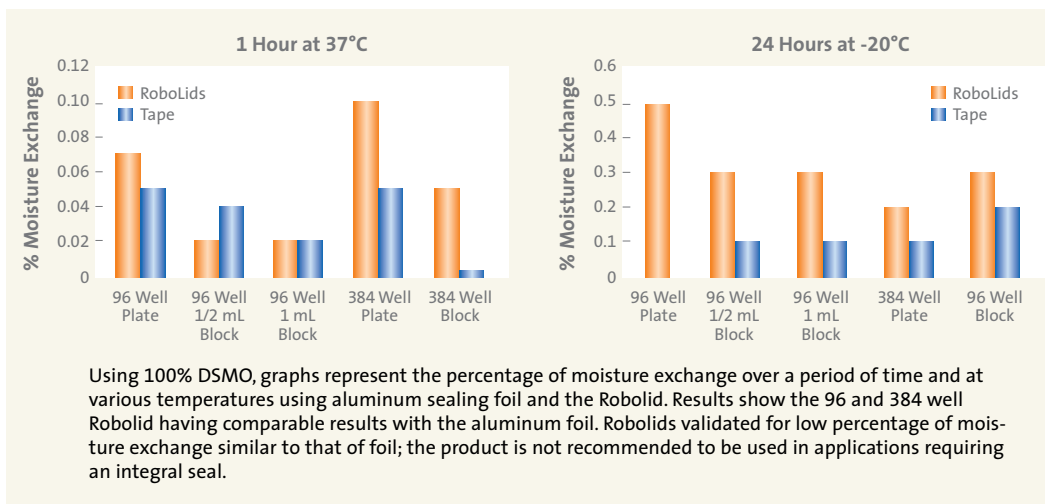
Robolids

- 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

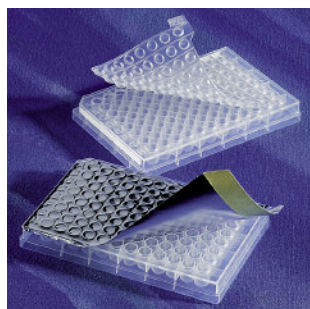
Robolid Ordering Information

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



Sealing Mats and 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 Tape Ordering Information

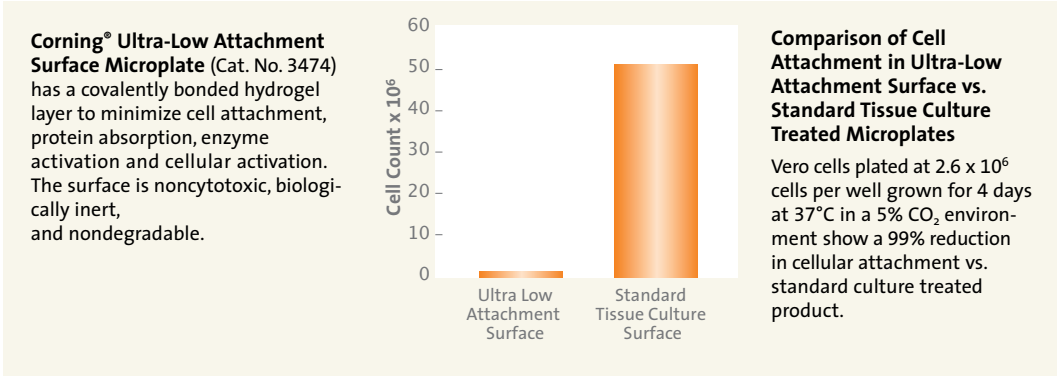
Cat. No.	Description	Sterile	Qty/Pk	Qty/Cs
3095	Acetate sealing tape for all microplates	No	100	100
6524	Polyethylene sealing tape	No	100	100
6570	Aluminum sealing tape for 96 well microplates	No	100	100
6569	Aluminum sealing tape for 384 well microplates	No	100	100
3345	Breathable sealing tape	Yes	50	500
6575	Universal Optical sealing tape	No	100	100

Technical Appendix

Corning® Assay Surface Properties and Applications

Corning Surface	Applications	Binding Interaction	Sample Properties	Performance Criteria
FOR BIOCHEMICAL ASSAYS				
NBS™ coated polystyrene surface	<ul style="list-style-type: none"> SPA assays Homogeneous assays 	None – Inhibits hydrophobic and ionic interactions	Significantly reduces (<2 ng/cm ²) protein and nucleic acid binding	95% reduction of nonspecific binding of protein compared to untreated polystyrene
Medium Binding (Untreated) modified polystyrene surface	<ul style="list-style-type: none"> Homogeneous and heterogeneous assays 	Hydrophobic	Large biomolecules >20kD with large or abundant hydrophobic regions	96w clear: Well to well CV ≤ 5% 96w black: Well to well CV ≤ 15% (HT) Well to well CV ≤ 3% (HO) 96w white: Well to well CV ≤ 8% (HT) Well to well CV ≤ 5% (HO) 384w clear: Well to well CV ≤ 10% (HT) 384w black and white: Well to well CV ≤ 15% (HT) Well to well CV ≤ 5% (HO)
High Binding modified polystyrene surface	<ul style="list-style-type: none"> ELISA and other heterogeneous assays 	Hydrophobic and ionic (negatively charged)	Improves binding of medium to large biomolecules (>10kD) that are positively charged with or without hydrophobic regions	96w clear: Well to well CV ≤ 3% 96w black: Well to well CV ≤ 8% 96w white: Well to well CV ≤ 10% 384w clear: Well to well CV ≤ 10% 384w black and white: Well to well CV ≤ 15%
Aminated-modified polystyrene surface	<ul style="list-style-type: none"> Used with bifunctional crosslinkers (i.e., glutaraldehyde, carbodiimide) to covalently couple to functional groups (primary amines, thiols, and carboxyls) on biomolecules 	Hydrophilic and ionic (positively charged); allows covalent immobilization	Small negatively charged biomolecules OR biomolecules possessing an appropriate functional amine, carboxyl or thiol group	CV ≤ 5% Percent Covalent Coupling ≥ 95%
DNA-BIND® modified polystyrene surface	<ul style="list-style-type: none"> Immobilization of aminated DNA for use in nucleic acid hybridization assays and solid-phase PCR Immobilization of peptides and other small primary amine containing molecules 	Allows covalent immobilization to amine groups via binding to NOS groups	Small to medium biomolecules, especially DNA, possessing an available amine group	CV ≤ 15%
Sulfhydryl-BIND™ modified polystyrene surface	<ul style="list-style-type: none"> Assays requiring site-directed orientation of a particular biomolecule, especially antibodies 	Allows covalent immobilization via SH moieties on maleimide groups	Biomolecules possessing an accessible sulfhydryl group or reducible disulfide bond	CV ≤ 15% Activated/NonActivated ≥ 2.0 Activated = reduced disulfide bonds
Carbo-BIND™ modified polystyrene surface	<ul style="list-style-type: none"> Assays requiring site-directed orientation of a particular biomolecule (oxidized antibodies, carbohydrates and glycosylated proteins) while maintaining enzymatic or immunological activity 	Allows covalent immobilization via binding to hydroxide groups	Biomolecules possessing carbohydrate moieties available for periodate activation	CV ≤ 15% Activated/Non-activated ≥ 3.0 Activated = periodate activation
Universal-BIND™ modified polystyrene surface	<ul style="list-style-type: none"> Immobilization of double-stranded DNA Immobilization of antigens of unknown structure (available functional groups unidentified) Immobilization of samples containing a mixture of biomolecules, such as cell lysate samples Immobilization of other nonprotein-aceous molecules, such as glycolipids 	Allows covalent immobilization via UV cross-linking to abstractable hydrogen	Biomolecules with abstractable hydrogen	CV ≤ 15% Activated/Non-Activated ≥ 2.0 Activated – by UV
FOR CELL-BASED ASSAYS				
Standard Tissue Culture Surface	<ul style="list-style-type: none"> Assays using standard attachment dependent cell lines 	Hydrophilic and ionic interactions (negatively charged)	Allows cell attachment and binding	≥95% confluency (attachment dependent cell line)
Corning® CellBIND® Surface	<ul style="list-style-type: none"> Assays for difficult to attach cells Help cells stay attached during washing steps 	Hydrophilic and ionic interactions (negatively charged)	Enhances cell attachment uniformity and binding to polystyrene	96 Well Plates: CV ≤10%; Wells with cells/wells without cells – 2X signal from MTS assay 384 Well Plates: CV ≤20%; Wells with cells/wells without cells – 2X signal from MTS assay
Poly-D-lysine-Coated Surface	<ul style="list-style-type: none"> Assays for difficult to attach cells Help cells stay attached during washing steps 	Hydrophilic and ionic interactions (positively charged)	Enhances cell attachment and binding	96 Well: CV ≤15%; PDL/TCT ≤2.0 serum free HEK cells 384 Well: CV ≤ 20%; PDL/TCT ≥1.5 serum free HEK cells
Ultra-Low Attachment Surface	<ul style="list-style-type: none"> Assays where preventing cell attachment is required Hybridoma production and clonal isolation by limiting dilution 	Nonionic hydrogel layer reduces or eliminates ionic and hydrophobic binding	Prevents or reduces cell attachment and binding	≥95% cell attachment inhibition

Technical Appendix (CONTINUED)

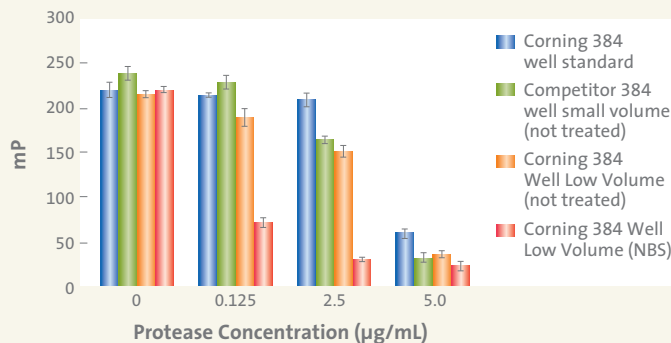


High Binding Plate Certification of Corning EIA/RIA Microplates		
Corning offers 96 well EIA/RIA microplates and Stripwell™ microplates manufactured from a special medical grade polystyrene for uniform binding, high optical clarity, and low background absorption.		
Certification Standards	High Binding	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 microplates have a binding capacity of approximately 500 ng of mouse IgG/cm ² . The non-treated microplates have a binding capacity of approximately 250 ng of Mouse IgG/cm ² . Corning tests its EIA/RIA microplates 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 .		

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 ²	¹²⁵ I-IgG	¹²⁵ I-BSA	¹²⁵ I-Insulin	³² P-oligo DNA	³² P- phage DNA
Polystyrene	400	450	310	22	6
Polypropylene	380	440	370	3	<2
NBS on Polystyrene	<2.5	<2.5	5	<2	<2

Benefits of NBS™ Chemistry on Homogeneous Assays

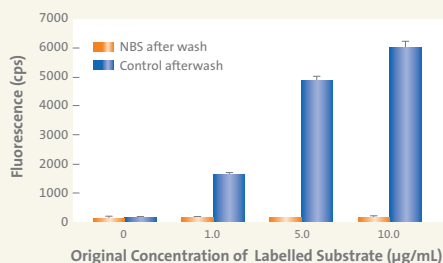
Fluorescence-based Assay Performance with Corning® NBS Low Volume Microplates



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.

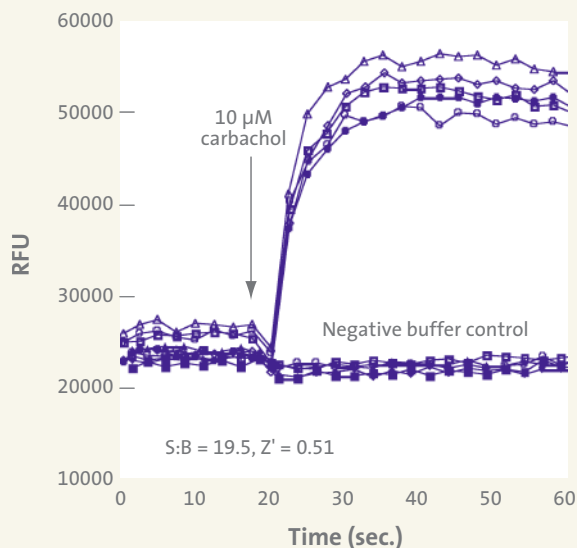
Reduced Nonspecific Protein Binding with Corning NBS Microplates



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.

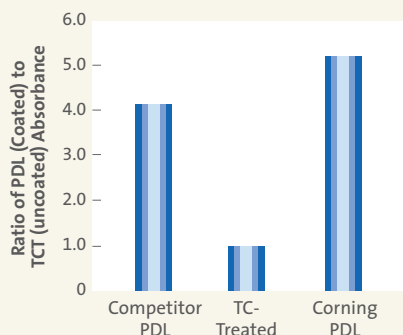
Miniaturization of Calcium Mobilization Assay in Corning 384 Well Low Volume Black Clear Bottom Tissue Culture Treated Microplate (Cat. No. 3542)



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 µL medium and then grown in standard CO₂ incubator overnight (37°C). After the addition of 10 µL calcium dye solution per well, the microplates were incubated in 37°C for 30 min. After equilibrating to RT for 30 min, microplates were loaded to Flexstation reader (Molecular Devices, Inc.). Five µL of 50 µM carbachol solution (final concentration 10 µM) was transferred to induce the response (or 5 µL 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.).

Technical Appendix (CONTINUED)

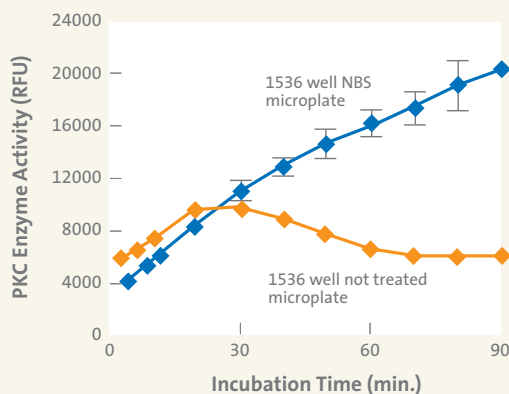
Performance of Corning® 384 Well Poly-D-Lysine Microplate (Cat. No. 3845)



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 microplates to competitor's PDL coated microplates and uncoated TC-treated plates. BHK-21 cells (1×10^4 cells/well) were incubated in 25 μ L of DMEM F-12 media in 8 replicate wells for 1 hour (37°C, 5% CO₂) on 384 well black/ clear bottom microplates.

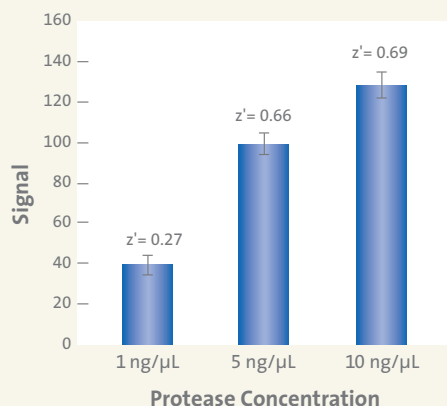
Data provided by Sigma-Aldrich Corporation. Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.

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 μ L and contained 20 mM Tris-HCl (pH 7.6), 5 mM MgCl₂, 5 mM DTT, 10% Lipid Activator, 6 μ M fluorogenic substrate, 10 μ M ATP and 50 pg/mL PKC β -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 μ L Round Well Microplate (Cat. No. 3936)



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

Selected Corning Technical Literature

All literature is available in PDF file format at www.corning.com/lifesciences.

Assay Microplates

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 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 (ALSP-AN-014)

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

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.

Comparative Analysis of Corning Microplates using the PerkinElmer® EnVision® Multilabel Microplate Reader SnAPPShot (CLS-AN-131)

The following compares and contrasts various 96 and 384 well microplate formats in fluorescent and luminescent biochemical assays using the PerkinElmer EnVision multilabel microplate reader.

Impact of Microplate Choice on HTRF® Assay Performance SnAPPShot (CLS-AN-096)

This SnAPPShot compares and contrasts the importance of microplate color and geometry in determining HTRF assay performance.

Corning NBS 384 Well Low Volume Microplates Perform Well in Fluorescence Polarization Based Assays SnAPPShot (CLS-AN-056)

This brief 2-page technical report shows that NBS microplates do not interfere with the binding affinity of neurotensin receptors and perform well in FP based receptor-ligand binding assays.

Performance Advantage of Corning NBS Microplates in Homogeneous Biochemical Assays SnAPPShot (CLS-AN-055)

This brief 2-page technical report shows that NBS microplates provide the widest signal dynamic range and most stable fluorescence signals for this HTS assay versus not treated microplates.

Bar Code Basics Technical Bulletin (CLS-AN-021)

This 3-page bulletin is a reference tool for customers that provides the anatomy of a bar code and terminology pertaining to the bar code structure.

Cell Culture Microplates

Helpful Hints to Manage Edge Effects of Cultured Cells for High-Throughput Screening (CLS-AN-038W)

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 (ALSP-AN-015)

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

Corning® CellBIND® Surface: An Improved Surface for Enhanced Cell Attachment Technical Report (CLS-AN-057)

The Corning CellBIND Surface is a plasma surface treatment for tissue culture vessels. This optimized tissue culture surface treatment increases the oxygen content of the polymer surface resulting in improved hydrophilicity and wettability, which is known to improve cell spreading and attachment.

Miniaturization of a Calcium Mobilization Assay in 384 Well Format SnAPPShot (CLS-AN-068)

In this study, we show a calcium mobilization assay that has been miniaturized to 25 to 40 µL using a new 384 well low volume (LV) black clear bottom (BCB) microplate from Corning. The results demonstrate that the quality of the data and assay performance on this LV microplate are comparable to that obtained from 384 well normal volume (NV) microplates.

Miniaturization of a Luciferase Reporter Gene Assay Show Enhanced Assay Performance With Considerable Cost Savings SnAPPShot (CLS-AN-093)

This short application note describes cost savings and cell-based assay improvement made possible by moving from a normal to a low volume 384 well format.

Considerations When Using Frozen Cells for High-Throughput Cell-Based Assays SnAPPShot (CLS-AN-117)

This SnAPPShot discusses the advantages and disadvantages of using batch-frozen versus continuously cultured cells in multiple assay formats.

Instrument and Microplate Considerations to Improve Image Capture and Data Generation During High Content Screens Application Note (CLS-AN-081)

Optimization of several parameters is essential during the development of a robust and informative high content screen, particularly when considering the complexity involved in cell-based assays. This 8-page report evaluates the impacts of instrument settings and microplate characteristics on assay robustness and data validity and provides a guide for significantly improving results when conducting a high content screen.

CORNING 96 WELL MICROPLATE SELECTION CHART

		AVAILABLE SURFACES													
	Page Number	Not Treated	High Bind	Medium Bind	NBS™	Carbo-BIND™	Sulphydryl-BIND™	Universal-BIND™	DNA-BIND®	Amine	TC-Treated	Corning® CellBIND® Surface	Ultra-Low Attachment Surface	Poly-D-Lysine	UV Transparent
96 Well Clear Polystyrene Microplates															
Round Bottom	7	■	■								■				
V-Bottom	7	■									■				
Flat Bottom	7	■	■		■	■	■	■			■	■	■	■	
Flat Bottom Half Area	7	■	■								■				
Flat Bottom Easy Wash	7	■	■												
96 Well Solid Black Polystyrene Microplates															
Round Bottom	8	■													
Flat Bottom	8	■	■		■						■				
Flat Bottom Half Area	8	■			■						■				
96 Well Black Clear Bottom Polystyrene Microplates															
Flat Bottom	8-9	■	■		■						■	■		■	
Flat Bottom Half Area	9	■			■						■			■	
96 Well Solid White Polystyrene Microplates															
Round Bottom	8	■			■										
Flat Bottom	8	■	■		■						■				
Flat Bottom Half Area	8	■			■						■				
96 Well White Clear Bottom Polystyrene Microplates															
Flat Bottom	8-9	■			■						■			■	
Flat Bottom Half Area	9	■			■						■				
96 Well Stripwell Polystyrene Microplates															
Flat Bottom	10		■	■		■	■	■	■	■	■				
Flat Bottom - Low Volume	10		■	■											
96 Well UV Microplates															
Flat Bottom	9														■
Flat Bottom Half Area	9														■
96 Well Clear Flexible Polyvinyl (PVC) Microplates															
V-Bottom	9	■													
Round Bottom	9	■													
Flat Bottom	9	■													
96 Well Polypropylene Microplates															
V-Bottom	11	■													
V-Bottom – Expanded Volume	11	■													
Round Bottom	11	■													
Flat Bottom	11	■													
96 Well Polypropylene Storage Blocks															
V-Bottom	11	■													
Round Bottom	11	■													

CORNING 384 AND 1536 WELL MICROPLATE SELECTION CHART

		AVAILABLE SURFACES								
Page Number		Not Treated	High Bind	Medium Bind	NBS™	TC-Treated	Corning® CellBIND® Surface	Ultra-Low Attachment Surface	Poly-D-Lysine	UV Transparent
384 Well Clear Polystyrene Microplates										
Flat Bottom	14	■	■		■	■			■	
384 Well Solid Black Polystyrene Microplates										
Flat Bottom	14	■			■	■				
Round Bottom, Low Volume	14	■	■	■	■					
Flat Bottom, Low Volume	14	■			■	■				
384 Well Black Clear Bottom Polystyrene Microplates										
Flat Bottom	15	■			■	■	■		■	
Flat Bottom, Low Volume	15	■			■	■				
384 Well Solid White Polystyrene Microplates										
Flat Bottom	14	■			■	■				
Round Bottom, Low Volume	14	■		■	■					
Flat Bottom, Low Volume	14				■	■				
384 Well White Clear Bottom Polystyrene Microplates										
Flat Bottom	15	■			■	■			■	
384 Well UV Microplates										
Flat Bottom	15									■
384 Well Polypropylene Microplate										
Round Bottom	16	■								
Conical Bottom	16	■								
384 Well Polypropylene Storage Block										
Round Bottom	16	■								
V-Bottom	16	■								
1536 Well Clear COC Echo Qualified Microplates										
Flat Bottom	18	■								
1536 Well Solid Black Polystyrene Microplates										
Flat Bottom	17	■			■	■				
Round Bottom	17	■								
1536 Well Black Clear Bottom Polystyrene Microplates										
Flat Bottom	18	■			■	■	■			
1536 Well Solid White Polystyrene Microplates										
Flat Bottom	17	■			■	■	■			
Round Bottom	17	■								

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