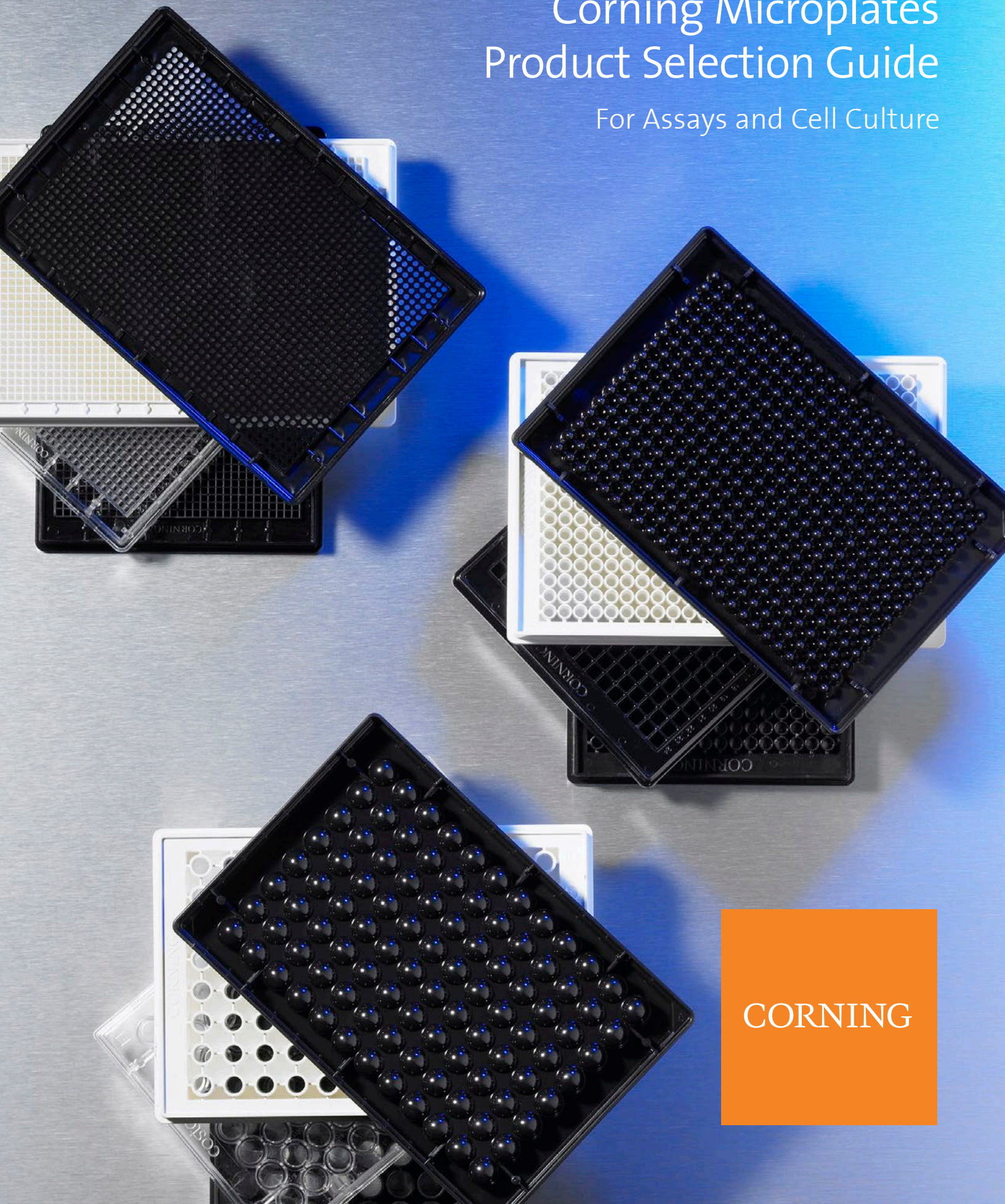
# Corning Microplates Product Selection Guide

## For Assays and Cell Culture



CORNING

# 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, go to **www.corning.com/lifesciences**.

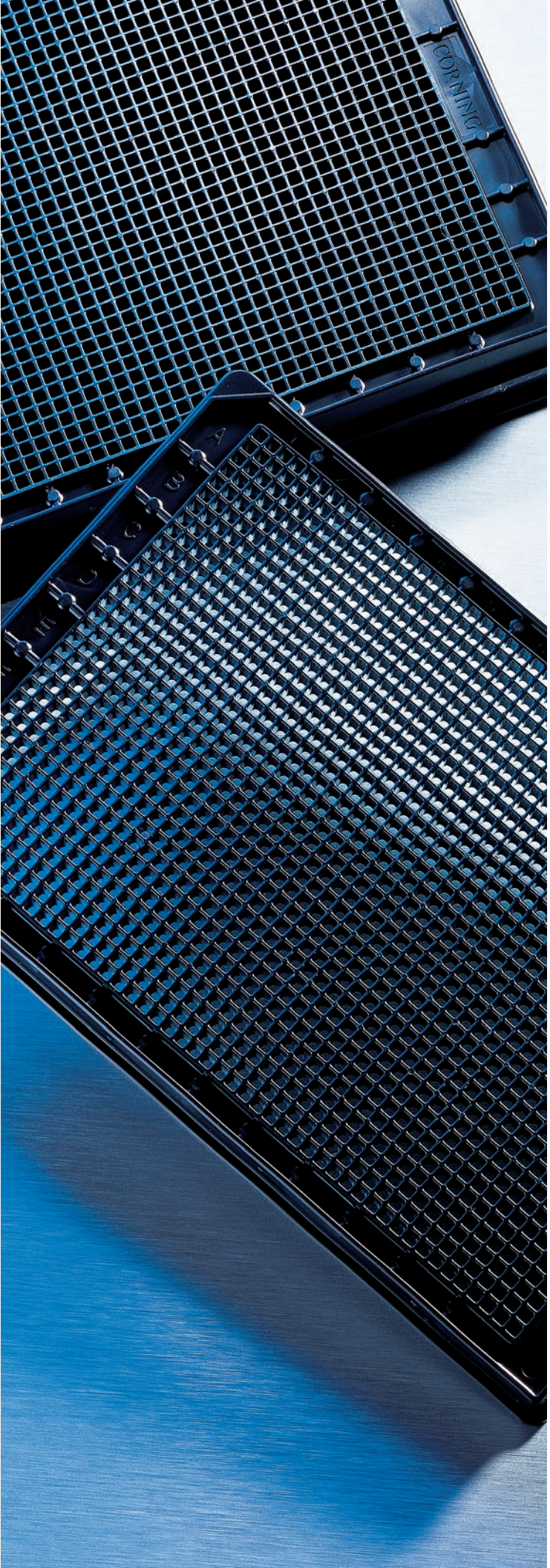
For additional product information, please visit www.corning.com/lifesciences, or call 1.800.492.1110. Customers outside the United States, please call 1.978.442.2200 or contact the local support office listed on the back cover.

# Ordering Information

Corning products are available through any authorized Corning support office or distributor. Please see our website 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.

**Abbreviations Used**

PDL – Poly-D-Lysine
PLL – Poly-L-Lysine
PLO – Poly-L-Ornithine
NBS – Nonbinding Surface
TC – Tissue Culture
NT – Not Treated
ELISA – Enzyme-linked Immunosorbent Assay
HB – High Bind
MB – Medium Bind




# Corning Microplates for Assays and Cell Culture

# Overview

## Designed for Performance

Corning has been setting the standard for excellence in life sciences 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® microplates and accessories are manufactured under strict process controls guaranteeing consistent product performance. Our manufacturing facilities are in compliance with cGMP standards and are ISO 9001 registered.

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 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.

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 have assembled an Equipment Compatibility 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 intended. Please use this Equipment Compatibility Guide with confidence.

# Corning® 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, nonbinding surface, 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 Corning Stripwell™ microplates
- 96-well polypropylene storage microplates and cluster tubes

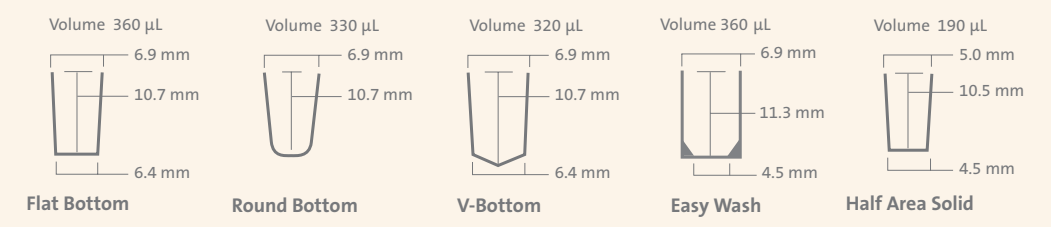
For information on 96-well microplates for PCR and genomics, see the **Corning Genomics Product Selection Guide** (CLS-MP-009).

Corning offers a wide variety of 96-well assay microplates. They are organized into five groups:

- Clear polystyrene microplates
- Solid black and white polystyrene microplates
- Clear bottom black and white polystyrene microplates
- UV microplates
- Clear flexible vinyl (PVC) microplates

Corning 96-well polystyrene microplates are offered in standard volume formats and in lower volume format (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 standard ANSI/SBS footprint dimensions for microplates.

| 96-well Plate Types | Well Bottom | 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.

For microplate selection process and additional information, see the **Corning® and Falcon® Microplates Selection Guide** (CLS-C-DL-MP-014).

## Corning® 96-well Clear Polystyrene Microplates

- Sterile
- Nonpyrogenic
- Lids are available where indicated.

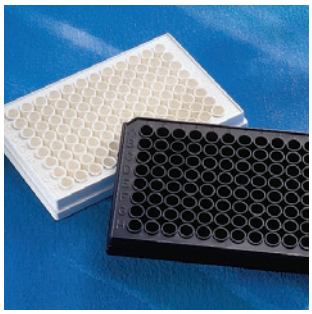
Refer to the Microplate Accessories section for information about microplate accessory products, including sealing tapes and mats.

| Cat. No. | Format | Well Bottom | Surface Treatment | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|---|
| 3360 | Standard | Round | TC-treated | Yes | 25 | 100 |
| 3366 | Standard | Round | High binding | 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 |
| 7007 | Standard, with lid | Round | Ultra-Low Attachment | Yes | 1 | 24 |
| 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 |
| 2507 | Standard | Flat | Carbo-BIND | No | 1 | 50 |
| 2509 | Standard | Flat | Sulfhydryl-BIND | No | 1 | 50 |
| 3300 | Standard, with lid | Flat | Corning CellBIND | Yes | 5 | 50 |
| 3361 | Standard, with lid | Flat | High binding | Yes | 20 | 100 |
| 3370 | Standard, with lid | Flat | Not treated | Yes | 20 | 100 |
| 3474 | Standard, with lid | Flat | Ultra-Low Attachment | Yes | 1 | 24 |
| 3585 | Standard, with lid** | Flat | TC-treated | Yes | 5 | 50 |
| 3590 | Standard | Flat | High binding | 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 | Nonbinding | 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 binding | No | 25 | 100 |
| 3690 | Half Area | Flat | High binding | 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 binding | No | 25 | 100 |

* Processed to improve hydrophilicity for hemagglutination and similar assays.
** Special low evaporation lid.
*** Aseptically manufactured.

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

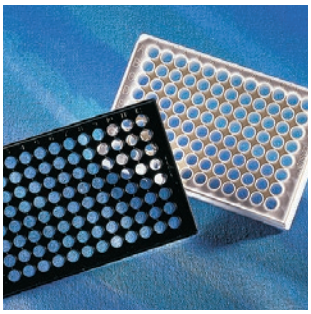
- Available in 96- and 384-well black clear bottom microplates and 96-well clear solid microplates
- Surface treatment provides consistent cell attachment and may improve attachment of difficult-to-attach cell lines.
- Not a coating; requires no special handling, and is stable at room temperature
- Sterile
- Nonpyrogenic



## Corning® 96-well Solid Black and White Polystyrene Microplates

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

| Cat. No. | Format | Color | Well Bottom | Surface Treatment | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|---|---|
| 3605 | Standard | White | Round | Nonbinding | No | 25 | 100 |
| 3789 | Standard | White | Round | Not treated | No | 25 | 100 |
| 3792 | Standard | Black | Round | Not treated | No | 25 | 100 |
| 4590 | Standard | Black | Round | Carbo-Bind | No | 1 | 50 |
| 4591 | Standard | Black | Round | Ultra-Low Attachment | Yes | 1 | 24 |
| 3362 | Standard | White | Flat | TC-treated | Yes | 25 | 100 |
| 3600 | Standard | White | Flat | Nonbinding | No | 25 | 100 |
| 3650 | Standard | Black | Flat | Nonbinding | 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 binding | No | 25 | 100 |
| 3925 | Standard | Black | Flat | High binding | No | 25 | 100 |
| 3990 | Standard | White | Flat | Nonbinding | No | 5 | 25 |
| 3991 | Standard | Black | Flat | Nonbinding | No | 5 | 25 |
| 3642 | Half area | White | Flat | Nonbinding | No | 25 | 100 |
| 3686 | Half area | Black | Flat | Nonbinding | 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 | Nonbinding | No | 5 | 25 |
| 3993 | Half area | Black | Flat | Nonbinding | No | 5 | 25 |



## 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.

## Corning® 96-well Clear Bottom Black and White Polystyrene Microplates

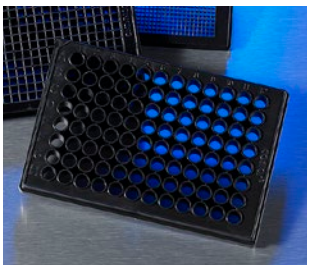
- Bottoms are 60% thinner than conventional polystyrene microplates, resulting in lower background fluorescence and enabling readings down to 340 nm.
- Opaque walls prevent well-to-well cross-talk.
- Optically clear flat bottom permits direct microscopic viewing.

| Cat. No. | Format | Color | Well Bottom | Surface Treatment | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|---|---|
| 3340 | Standard, with lid | Black | Flat | Corning CellBIND® | Yes | 5 | 50 |
| 3372 | Standard, with lid | Black | Flat | Poly-D-Lysine | Yes | 10 | 50 |
| 3601 | Standard | Black | Flat | High binding | No | 25 | 100 |
| 3603 | Standard, with lid | Black | Flat | TC-treated | Yes | 1 | 48 |
| 3604 | Standard | White | Flat | Nonbinding | 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 | 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 | Nonbinding | No | 25 | 100 |
| 3720 | Special Optics | Black | Flat | TC-treated | Yes | 5 | 25 |
| 3843 | Standard, with lid | White | Flat | Poly-D-Lysine | Yes* | 20 | 100 |
| 3842 | Standard, with lid | Black | Flat | Poly-D-Lysine | Yes* | 20 | 100 |
| 3903 | Standard, with lid | White | Flat | TC-treated | Yes | 20 | 100 |
| 3904 | Standard, with lid | Black | Flat | TC-treated | Yes | 20 | 100 |
| 4594 | Standard | Black | Flat | Fibronectin | No | 20 | 100 |
| 3995 | Standard | White | Flat | Nonbinding | No | 5 | 25 |
| 3809 | Standard | White | Flat | Corning CellBIND | Yes | 20 | 100 |
| 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 | Nonbinding | 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 | Nonbinding | 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 | Nonbinding | No | 5 | 25 |

*Aseptically manufactured.

For other surface-treated microplates, see the **Extracellular Matrices, Biologically Coated Surfaces, and Permeable Support Inserts Product Selection Guide** (CLS-DL-AC-012).

## Corning® 96-well Multi-coated Microplates



- Corning 96-well multi-coated microplate allows you access to six different surface treatments on a single plate.
- Useful when determining the correct surface for your assay requirements
- Single surface microplates can then be used for the full screen or experiment.
- Surfaces include Poly-D-Lysine, collagen type I, gelatin, fibronectin, and tissue culture-treated.

| Cat. No. | Description | Lid | Qty/Cs |
|---|---|---|---|
| 3823 | 96-well, black with clear bottom, multi-coated microplate | Yes | 10 |

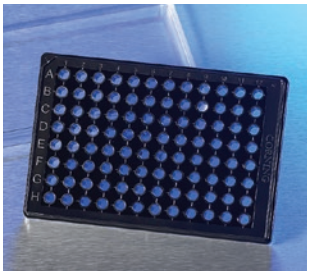
## Corning 96-well Spheroid Microplates

With their novel and proprietary design, these microplates are ideal for generating and analyzing 3D multicellular spheroids in the same microplate. The Ultra-Low Attachment surface enables uniform and reproducible 3D multicellular spheroid formation. The black opaque microplate body shields each optically clear, round bottom well from well-to-well cross-talk.

- Optically clear round bottom with black opaque microplate body
- Covalent attachment of Ultra-Low Attachment surface to reduce cellular adhesion to well surface
- Novel well geometry aids in the generation of uniform, single spheroids across all wells, which enables automated visualization.
- Unique design shields each well to minimize well-to-well cross-talk.
- You can culture and assay spheroids in the same microplate, without the need for transfer to a new microplate.

| Cat. No. | Description | Qty/Pk | Qty/Cs |
|---|---|---|---|
| 4520 | 96-well spheroid microplate, black, clear bottom, round, Ultra-Low Attachment surface, sterile | 10 | 50 |
| 4515 | 96-well spheroid microplate, black, clear bottom, round, Ultra-Low Attachment surface, sterile | 5 | 5 |

## Corning 96-well High Content Screening Microplates with Film Bottom

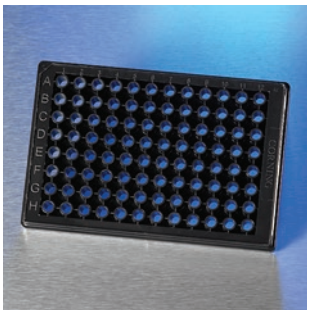


With an ultra-clear film, a 127 µm film thickness, and an unprecedented flatness (whole plate and intra-well), these microplates are ideal for high resolution cellular imaging applications. The microplate and film are manufactured from cyclic olefin copolymer (COC), which has excellent optical properties, chemical resistance, and mechanical stability.

- COC material allows for broad chemical resistance (including DMSO) and high mechanical stability.
- Ultra-clear film with 127 µm thickness is well suited for imaging micropscopy.
- Inter- and intra-well film bottom flatness within 50 µm and 10 µm, respectively, optimized for high content applications
- Low auto-fluorescence and birefringence

| Cat. No. | Description | Qty/Pk | Qty/Cs |
|---|---|---|---|
| 4680 | Half area, film bottom, black, clear bottom, flat, with lid, TC-treated, sterile | 4 | 16 |

## Corning® 96-well High Content Screening Microplates with Glass Bottom



High optical quality, glass bottom, black microplates are ideal for performing high content cell-based assays using imaging systems. The glass bottom provides a flat and optically clear surface that reduces autofocus time, increases throughput, and is ideal for cell growth.

- High optical quality and scratch resistant glass
- Glass bottom thickness of 200 µm is well suited for imaging microscopy.
- Bottom flatness <50 µm to ensure planarity for imaging devices
- Low background fluorescence and minimal cross-talk provides the highest possible optical quality for cell-based assays.
- Half area 96-well microplate reduces reagent consumption.

| Cat. No. | Description | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|
| 4580 | 96-well half area glass bottom microplate, uncoated, with lid | Yes | 1 | 10 |
| 4582 | 96-well half area, glass bottom microplate, Collagen coated, with lid | No | 1 | 10 |
| 4584 | 96-well half area, glass bottom microplate, Fibronection coated, with lid | No | 1 | 10 |
| 4586 | 96-well half area, glass bottom microplate, Poly-D-Lysine coated, with lid | No | 1 | 10 |

## Corning 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.

- RNase-/DNase-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 µL to 200 µL
- UV half area microplate has well volume of 205 µL; working volume of 25 µL to 125 µL.
- Allows UV absorbance readings with low background, especially at 260 nm to 280 nm
- Lids are available separately.

Refer to the Microplate Accessories section for information about microplate accessory products, including sealing tapes and mats.

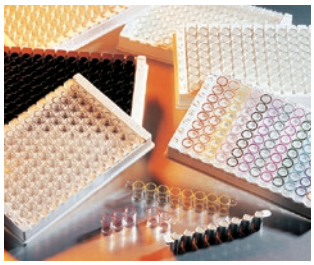
| Cat. No. | Format | Well Bottom | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|
| 3635 | Standard | Flat | No | 25 | 50 |
| 3679 | Half area | Flat | No | 25 | 50 |

## Corning 96-well Clear Flexible Vinyl (PVC) Microplates

- Not treated 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 µL to 150 µL
- Lids are not available.

| Cat. No. | 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 |

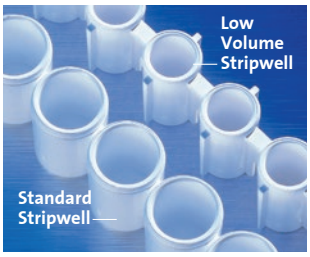
## Corning® 96-well Polystyrene Stripwell™ Microplates



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 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.

Refer to the Microplate Accessories section for information about microplate accessory products, including sealing tapes and mats.




### Low Volume Stripwell 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 Colors

- White
- Dark blue
- Light green
- Light blue
- Teal
- Dark green
- Yellow
- Purple
- Red
- Orange
- Pink
- Black
- Brown
- Grey

### Low Volume Stripwell 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 medium or high bind 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 (µL) | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|
| 2506 | DNA-BIND® surface | N-oxysuccinimide | 360 | 1 | 50 |
| 2508 | Carbo-BIND surface | Hydrazide | 360 | 1 | 50 |
| 2510 | Sulfhydryl-BIND surface | Maleimide | 360 | 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 Account Manager.

## Corning® 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
- Features uniform skirt heights for greater robotic gripping surface
- Solvent resistant polypropylene provides compatibility with many common organic solvents (e.g., DMSO, ethanol, methanol)
- RNase-/DNase-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

| Format/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 | 128.27 x 85.85 x 43.94 |

### 96-well Polypropylene Microplate

| Cat. No. | 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 |

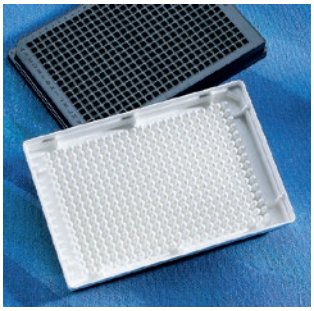
*Upgraded features include virgin clear polypropylene, lowered perimeter ridge for improved sealing, and added rigidity and dimensional stability for improved automated handling.

### 96-well Polypropylene Storage Block

| Cat. No. | Format | Well Volume (mL) | Well Bottom | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|---|
| 3958 | 1 mL round well block | 1 | Round | Yes | 5 | 25 |
| 3959 | 1 mL round well block | 1 | Round | No | 5 | 100 |
| 3956 | 0.5 mL round well block | 0.5 | V | Yes | 10 | 50 |
| 3957 | 0.5 mL round well block | 0.5 | V | No | 10 | 100 |
| 3960 | 2 mL square well block | 2 | V | Yes | 5 | 25 |
| 3961 | 2 mL square well block | 2 | V | No | 5 | 100 |

For other surface-treated microplates, see the **Extracellular Matrices, Biologically Coated Surfaces, and Permeable Support Inserts Product Selection Guide** (CLS-DL-AC-012).

# Corning® 384-well Microplates



**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

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, nonbinding surface, high binding, and UV microplates
  - Cell-based assays – Tissue culture-treated, Corning® CellBIND® surface, Ultra-Low Attachment surface, and Poly-D-Lysine coated polystyrene microplates
- 384-well polypropylene storage microplates

For information on 384-well microplates for PCR and genomics, see the **Corning Genomics Product Selection Guide** (CLS-MP-009).

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

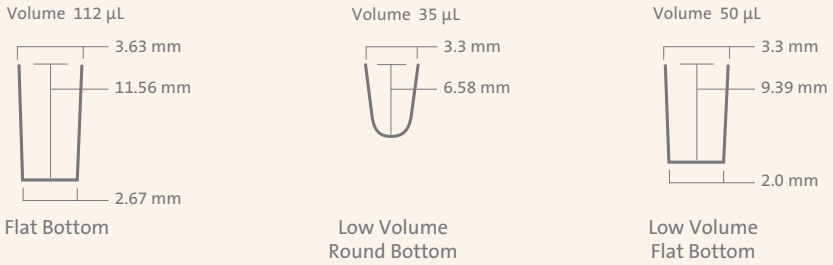
- Clear polystyrene microplates
- Solid black and white polystyrene microplates
- Black and white clear bottom polystyrene microplates
- UV microplates

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.

| 384-well Microplate Types | Well Bottom | 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 |

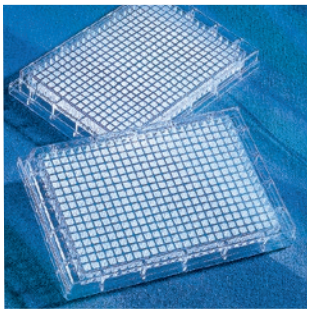
Corning 384-well polystyrene microplates have microplate dimensions (length x width x height) of 127.76 mm x 85.48 mm x 14.22 mm that meet proposed industry standards.

### 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 Corning CellBIND surface treatment can provide improved consistency and even cell attachment.

For microplate selection process and additional information, see the **Corning® and Falcon® Microplates Selection Guide** (CLS-C-DL-MP-014).



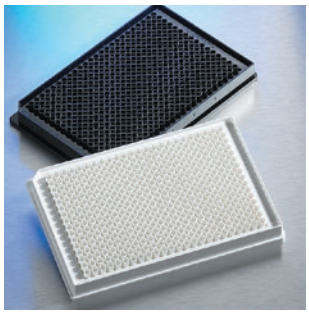
## Corning® 384-well Clear Polystyrene Microplates

- Total well volume of 112 µL; working well volume of 20 µL to 80 µL
- Cell culture microplates are sterile and nonpyrogenic.
- The 384-well Universal Optics nonbinding surface (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 K19).

| Cat. No. | Format | Well Bottom | Surface Treatment | Sterile | Qty/ Pk | Qty/ Cs |
|---|---|---|---|---|---|---|
| 3640 | Standard | Flat | Nonbinding | No | 25 | 100 |
| 3640BC | Standard, with bar code labels | Flat | Nonbinding | No | 25 | 100 |
| 3844 | Standard, with lid | Flat | Poly-D-Lysine | Yes* | 20 | 100 |
| 3847 | Standard, with lid | Flat | Fibronectin | No | 20 | 100 |
| 3680 | Standard, with lid | Flat | Not treated | Yes | 20 | 100 |
| 3700 | Standard | Flat | High Bind | No | 25 | 100 |
| 3701 | Standard, 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 | Nonbinding | No | 25 | 100 |

*Aseptically manufactured.

384-well solid low flange microplates



384-well low volume solid microplates

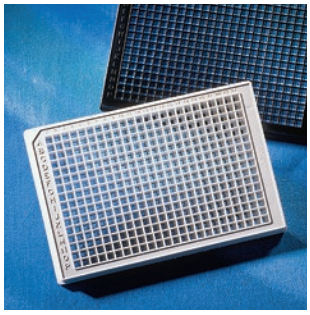
## Corning 384-well Solid Black and White Polystyrene Microplates

Designed to reduce well-to-well cross-talk during fluorescent and luminescent assays.

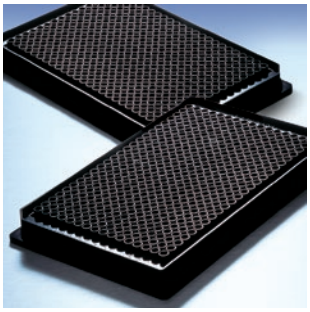
| Cat. No. | Format | Color | Well Bottom | Surface Treatment | Sterile | Qty/ Pk | Qty/ Cs |
|---|---|---|---|---|---|---|---|
| 3570 | Solid white, with lid | White | Flat | TC-treated | Yes | 10 | 50 |
| 3571 | Solid black, with lid | Black | Flat | TC-treated | Yes | 10 | 50 |
| 3572 | Standard, 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 | Nonbinding | No | 10 | 50 |
| 3574BC | Standard, low flange, with bar code labels | White | Flat | Nonbinding | No | 10 | 50 |
| 3575 | Standard, low flange | Black | Flat | Nonbinding | No | 10 | 50 |
| 3575BC | Standard, low flange, with bar code labels | Black | Flat | Nonbinding | No | 10 | 50 |
| 3820 | Low volume | Black | Flat | Nonbinding | 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 | Nonbinding | No | 10 | 50 |
| 3824BC | Low volume, with bar code labels | White | Flat | Nonbinding | No | 10 | 50 |
| 3826 | Low volume, with lid | White | Flat | TC-treated | Yes | 10 | 50 |
| 3826BC | Low volume, with lid, bar code labels | White | Flat | TC-treated | Yes | 10 | 50 |

## Corning® 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 microplates

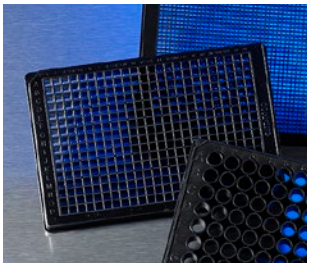


384-well low volume black clear bottom microplates

| Cat. No. | Format | 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 | Nonbinding | No | 10 | 50 |
| 3643 | Low volume | Black | Flat | Poly-D-Lysine | Yes | 10 | 50 |
| 3653 | Standard | White | Flat | Nonbinding | 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 | Nonbinding | No | 25 | 100 |
| 3683 | Clear bottom, with lid | Black | Flat | Corning CellBIND® | 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 |
| 3827 | Clear bottom, with lid | Black | Flat | Ultra-Low Attachment | Yes | 20 | 100 |
| 3848 | Clear bottom, with lid | Black | Flat | Fibronectin | No | 20 | 100 |
| 3819 | Clear bottom, with lid | Black | Flat | Collagen | No | 20 | 100 |
| 3985 | Optical Imaging, with clear bottom and lid | Black | Flat | TC-treated | Yes | 20 | 100 |
| 3985BC | Optical Imaging, clear bottom, with lid and bar code labels | Black | Flat | TC-treated | Yes | 20 | 100 |

*Aseptically manufactured.

## Corning 384-well Multi-coated Microplates



- Corning 384-well multi-coated microplate allows you access to six different surface treatments on a single plate.
- Useful when determining the correct surface for your assay requirements
- Single surface microplates can then be used for the full screen or experiment.
- Surfaces include Poly-D-Lysine, collagen type I, gelatin, fibronectin, and tissue culture-treated.

| Cat. No. | Description | Lid | Qty/Cs |
|---|---|---|---|
| 3828 | 384-well, black with clear bottom, multi-coated microplate | Yes | 10 |

For other surface-treated microplates, see the **Extracellular Matrices, Biologically Coated Surfaces, and Permeable Support Inserts Product Selection Guide** (CLS-DL-AC-012).

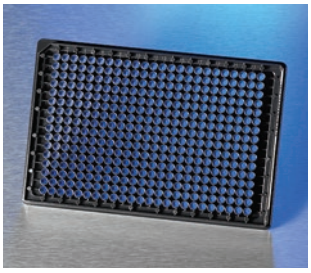
## Corning® 384-well Spheroid Microplates

With their novel and proprietary design, these microplates are ideal for generating and analyzing 3D multicellular spheroids in the same microplate. The Ultra-Low Attachment surface enables uniform and reproducible 3D multicellular spheroid formation. The black opaque microplate body shields each optically clear, round bottom well from well-to-well cross-talk.

- Optically clear round bottom with black opaque microplate body
- Covalent attachment of Ultra-Low Attachment surface to reduce cellular adhesion to well surface
- Novel well geometry aids in the generation of uniform, single spheroids across all wells, which enables automated visualization.
- Unique design shields each well to minimize well-to-well cross-talk.
- You can culture and assay spheroids in the same microplate without the need for transfer to a new microplate.

| Cat. No. | Description | Qty/Pk | Qty/Cs |
|---|---|---|---|
| 3830 | Spheroid microplate, black with clear bottom, round, Ultra-Low Attachment surface, sterile | 10 | 50 |
| 4516 | Spheroid microplate, black with clear bottom, round, Ultra-Low Attachment surface, sterile | 5 | 5 |

## Corning 384-well High Content Screening Microplates with Film Bottom

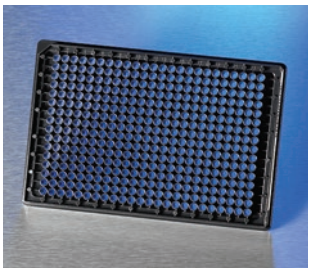


With an ultra-clear film, a 127 µm film thickness, and an unprecedented flatness (whole plate and intra-well), these microplates are ideal for high resolution cellular imaging applications. The microplate and film are manufactured from cyclic olefin copolymer (COC), which has excellent optical properties, chemical resistance, and mechanical stability.

- COC material allows for broad chemical resistance (including DMSO) and high mechanical stability.
- Ultra-clear film with 127 µm thickness is well suited for imaging microscopy.
- Inter- and intra-well film bottom flatness within 50 µm and 10 µm, respectively, optimized for high content applications
- Low auto-fluorescence and birefringence

| Cat. No. | Description | Qty/Pk | Qty/Cs |
|---|---|---|---|
| 4681 | Film bottom, with lid, black with clear bottom, flat, TC-treated, sterile | 10 | 20 |

## Corning 384-well High Content Screening Microplates with Glass Bottom



High optical quality, glass bottom black microplates are ideal for performing high-content cell-based assays using imaging systems. The glass bottom provides a flat and optically clear surface that reduces autofocus time, increases throughput, and is ideal for cell growth.

- High optical quality and scratch resistant glass
- Glass bottom thickness of 200 µm is well suited for imaging microscopy.
- Bottom flatness <50 µm to ensure planarity for imaging devices
- Low background fluorescence and minimal cross-talk provide the highest possible optical quality for cell-based assays.

| Cat. No. | Description | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|
| 4581 | 384-well glass bottom microplate, uncoated, with lid | Yes | 1 | 10 |
| 4583 | 384-well glass bottom microplate, Collagen coated, with lid | No | 1 | 10 |
| 4585 | 384-well glass bottom microplate, Fibronectin coated, with lid | No | 1 | 10 |
| 4587 | 384-well glass bottom microplate, Poly-D-Lysine coated, with lid | No | 1 | 10 |

## Corning® 384-well Polypropylene Storage Microplates

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

| Well bottom | Total Well Volume (µL) | Well Depth (mm) | Well Diameter (mm) | Plate Dimensions (L x W x H) (mm) |
|---|---|---|---|---|
| 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 |

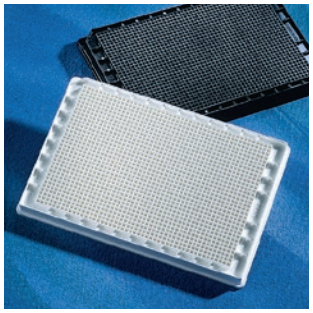
*Width of square well.

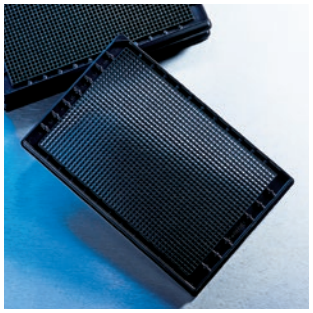
- Resistant to many common organic solvents (e.g., DMSO, ethanol, methanol)
- Black polypropylene microplate (Cat. No. 3658) is ideal for fluorescent assays requiring solvent resistance
- RNase-/DNase-free

Refer to the Microplate Accessories section for information about microplate accessory products, including sealing tapes and mats.

| Cat. No. | 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 |
| 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 |

# Corning® 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, with round or flat bottoms, and in black clear bottom formats.

## Corning 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 up to 8 µL
- Round well bottom for reduced air entrapment and improved CV values and Z factor
- Raised well bottom 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.

Refer to the Microplate Accessories section for information about microplate accessory products, including sealing tapes and mats.

**1536-well Polystyrene Microplates**

| Cat. No. | Format | 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, 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, bar code labels | White | Flat | TC-treated | Yes | 10 | 50 |
| 3728 | Standard | Black | Flat | Nonbinding | No | 10 | 50 |
| 3728BC | Standard, with lid, bar code labels | Black | Flat | Nonbinding | No | 10 | 50 |
| 3729 | Standard | White | Flat | Nonbinding | No | 10 | 50 |
| 3729BC | Standard, with bar code labels | White | Flat | Nonbinding | No | 10 | 50 |
| 3731 | Standard | White | Flat | Corning CellBIND® | Yes | 10 | 50 |
| 3731BC | Standard, with bar code labels | White | Flat | Corning CellBIND | Yes | 10 | 50 |
| 3549 | Standard, with lid | White | Flat | Collagen | No | 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 |

*Continued on next page*

For microplate selection process, see the **Corning® and Falcon® Microplates Selection Guide** (CLS-C-DL-MP-014).



Visit **www.corning.com/lifesciences** for additional product and technical information.

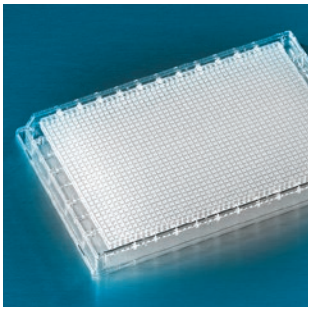
### 1536-well Polystyrene Microplates (Continued)

| Cat. No. | Format | 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, bar code labels | Black | Flat | TC-treated | Yes | 10 | 50 |
| 3895 | Clear bottom | Black | Flat | Nonbinding | No | 10 | 50 |

### 1536-well Low Base Polystyrene Microplates

| Cat. No. | Format | 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® | Yes | 20 | 100 |
| 3831 | Low base, clear bottom | Black | Flat | Not treated | No | 10 | 50 |
| 3838 | Low base, clear bottom | Black | Flat | TC-treated | Yes | 10 | 50 |
| 3838BC | Low base, clear bottom, with lid, bar code labels | Black | Flat | TC-treated | Yes | 10 | 50 |
| 3832 | Low base, clear bottom | Black | Flat | Corning CellBIND | Yes | 10 | 50 |
| 3832BC | Low base, clear bottom, with lid, bar code labels | Black | Flat | Corning CellBIND | Yes | 10 | 50 |

## Corning 1536-well Echo™ Qualified Microplate



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

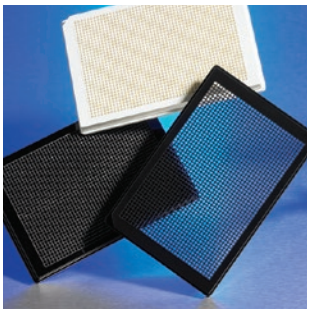
### Corning 1536-well Echo Qualified Microplates

| Cat No. | Description | Well Bottom | Surface Treatment | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|---|
| 3730 | 1536-well Clear COC | Flat | Not treated | No | 10 | 50 |

COC = Cyclic olefin copolymer.

For other surface-treated microplates, see the **Extracellular Matrices, Biologically Coated Surfaces, and Permeable Support Inserts Product Selection Guide** (CLS-DL-AC-012).

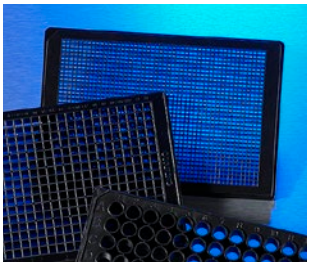
## Corning® 1536-well Cyclic Olefin Copolymer (COC) Microplates



- Cyclic Olefin Copolymer material
- 127 µm film thickness
- 1536-well low base, clear bottom microplates (black or white with clear bottom)
- Bar coded
- Custom bar codes available for compatibility with the Kalypsys system and with UHTS systems
- Low auto-fluorescence
- Broad chemical resistance including DMSO and alcohol
- High mechanical stability
- Optimized for flatness and uniformity
- Low birefringence
- Coated in a highly controlled, aseptic manufacturing environment to ensure lot-to-lot consistency, assay reproducibility, and contamination control

| Cat. No. | Description | Surface Treatment | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|---|
| 4560 | Black with clear bottom | Not treated | No | 20 | 100 |
| 4561 | Black with clear bottom | TC-treated | Yes | 20 | 100 |
| 4562 | Black with clear bottom | Nonbinding | No | 20 | 100 |
| 4563 | Black with clear bottom | Corning CellBIND® | Yes | 20 | 100 |
| 4564 | Black with clear bottom | Poly-D-Lysine | No | 20 | 100 |
| 4565 | Solid black | Not treated | No | 10 | 50 |
| 4566 | Solid black | TC-treated | Yes | 10 | 50 |
| 4567 | Solid black | Nonbinding | No | 10 | 50 |
| 4570 | Solid white | Not treated | No | 10 | 50 |
| 4571 | Solid white | TC-treated | Yes | 10 | 50 |
| 4572 | Solid white | Nonbinding | No | 10 | 50 |

## Corning 1536-well Multi-coated Microplates

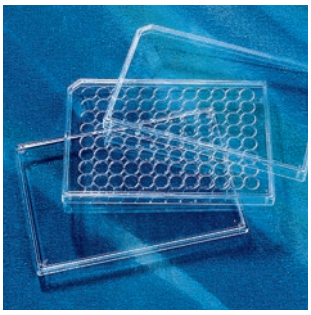


- Corning 1536-well multi-coated microplate allows you access to six different surface treatments on a single plate.
- Useful when determining the correct surface for your assay requirements
- Single surface microplates can then be used for the full screen or experiment
- Surfaces include Poly-D-Lysine, collagen type I, gelatin, fibronectin, and tissue culture-treated

| Cat. No. | Description | Lid | Qty/Cs |
|---|---|---|---|
| 3829 | 1536-well, black with clear bottom, multi-coated microplate | Yes | 10 |

For other surface-treated microplates, see the **Extracellular Matrices, Biologically Coated Surfaces, and Permeable Support Inserts Product Selection Guide** (CLS-DL-AC-012).

# Microplate Accessories



## Microplate 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 copolymer (COC) lid (Cat. No. 3085) is tinted amber in color for light-sensitive assays and is 100% DMSO-resistant.

| 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 COC lid without corner notch | All microplates | No | 25 | 50 |

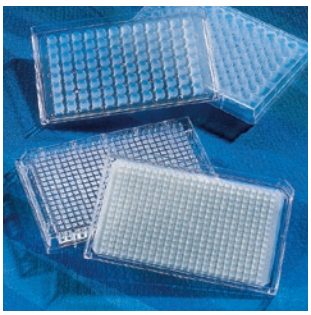
### Optimizing Sealing Conditions on Corning Polypropylene Microplates

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

## Storage Mats and Accessories

- Multiple formats are offered for specific and precise fit on 96-well and 384-well microplates and blocks.
- Storage mats (Cat. Nos. 3080 and 3083) are manufactured from DMSO-resistant EVA (ethyl vinyl acetate) polymer.
- RNase-/DNase-free
- Can be applied manually or with storage mat applicator (Cat. No. 3081)

| 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 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 |

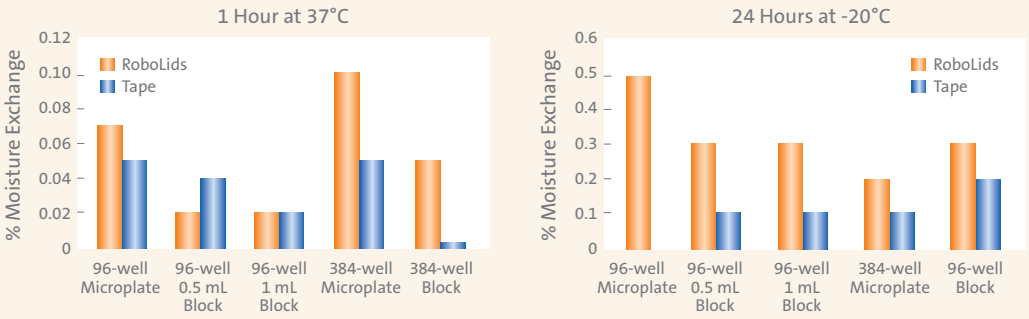


## Corning® Robolids

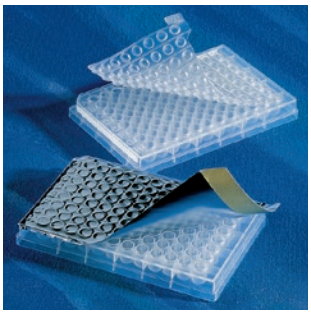
- Combines the sealing ability of a storage mat with the rigidity of a plastic lid
- Designed for repeated application and removal by automation and for preventing short-term evaporation
- Silicone sealing plugs for organic solvent resistance and low extractables
- Can be used manually or with automation

| 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




Using 100% DSMO, graphs represent the percentage of moisture exchange over a period of time and at various temperatures using aluminum sealing foil and the Robolid. Results show the 96-well and 384-well Robolid having comparable results with the aluminum foil. Robolids validated for low percentage of moisture exchange similar to that of foil. The product is not recommended to be used in applications requiring an integral seal.



## Sealing Tapes

- Easy application and removal for short- and long-term storage
- Provides tight seal to minimize evaporation and condensation
- Aluminum sealing tape (Cat. Nos. 6569 and 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 Tapes

| Cat. No. | Description | Sterile | Qty/Pk | Qty/Cs |
|---|---|---|---|---|
| 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 |

# Bar Code Customization

Generic bar code microplate

## Generic Bar Codes

Corning now offers a line of generic bar coded microplates to better meet the demands of your screening needs.

- 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
  NBS = Nonbinding surface
- Labels applied to all 4 sides of the microplate 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

## Custom Designed Bar Codes

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

- Fast delivery
- Bulk-packaged microplates for ease of use in automated systems
- Flexible bar code symbologies, such as CODE 128, Code 3 of 9, and ITF 2 of 5
- Flexible bar code positioning so that labels can be left-aligned, center-aligned, or right-aligned
- Non-repeatable bar code sequence prevents label duplication
- Solvent resistance to methanol, DMSO, methylene chloride, and ethyl acetate
- Ability to withstand prolonged exposure to temperatures ranging from -80°C to 121°C
- Sample bar coded plates are provided in order to test compatibility with automated equipment.

## 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 Corning Account Manager for more information.

# Technical Appendix

## Surface Properties and Applications

| Corning® Surface | Applications | Binding Interaction | Sample Properties | Performance Criteria |
|---|---|---|---|---|
| **FOR BIOCHEMICAL ASSAYS** | | | | |
| Nonbinding (NBS) coated polystyrene | ◗ SPA assays<br>◗ Homogeneous assays | None – Inhibits hydrophobic and ionic interactions | Significantly reduces (<2 ng/cm²) protein and nucleic acid binding | 95% reduction of nonspecific binding of protein compared to untreated polystyrene |
| Medium binding (Not treated) modified polystyrene | ◗ Homogeneous (HO) and heterogeneous (HT) assays | Hydrophobic | Large biomolecules >20kD with large or abundant hydrophobic regions | 96-well clear: Well-to-well CV ≤5%<br>96-well black: Well-to-well CV ≤15% (HT)<br>Well-to-well CV ≤3% (HO)<br>96-well white: Well-to-well CV ≤8% (HT)<br>Well-to-well CV ≤5% (HO)<br>384-well clear: Well-to-well CV ≤10% (HT)<br>384-well black and white:<br>Well-to-well CV ≤15% (HT)<br>Well-to-well CV ≤5% (HO) |
| High binding modified polystyrene | ◗ ELISA* and other heterogeneous assays | Hydrophobic and ionic interactions (negatively charged) | Improves binding of medium to large biomolecules (>10kD) that are positively charged with or without hydrophobic regions | 96-well clear: Well-to-well CV ≤3%<br>96-well black: Well-to-well CV ≤8%<br>96-well white: Well-to-well CV ≤10%<br>384-well clear: Well-to-well CV ≤10%<br>384-well black and white:<br>Well-to-well CV ≤15% |
| Sulfhydryl-BIND™ modified polystyrene | ◗ 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%<br>Activated/non-activated ≥ 2.0<br>Activated = reduced disulfide bonds |
| Carbo-BIND modified polystyrene | ◗ 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%<br>Activated/non-activated ≥ 3.0<br>Activated = periodate activation |
| **FOR CELL-BASED ASSAYS** | | | | |
| Standard Tissue Culture-treated | ◗ 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® | ◗ Assays for difficult to attach cells<br>◗ Help cells stay attached during washing steps | Hydrophilic and ionic interactions (negatively charged) | Enhances cell attachment uniformity and binding to polystyrene | 96-well: CV ≤10%<br>384-well: CV ≤20% |
| Poly-D-Lysine-coated | ◗ Assays for difficult to attach cells<br>◗ Help cells stay attached during washing steps | Hydrophilic and ionic interactions (positively charged) | Enhances cell attachment and binding | 96-well: CV ≤15%<br>384-well: CV ≤20% |
| Ultra-Low Attachment | ◗ Assays where preventing cell attachment is required<br>◗ Hybridoma production and clonal isolation by limiting dilution | Non-ionic hydrogel layer reduces or eliminates ionic and hydrophobic binding | Prevents or reduces cell attachment and binding | ≥95% cell attachment inhibition |

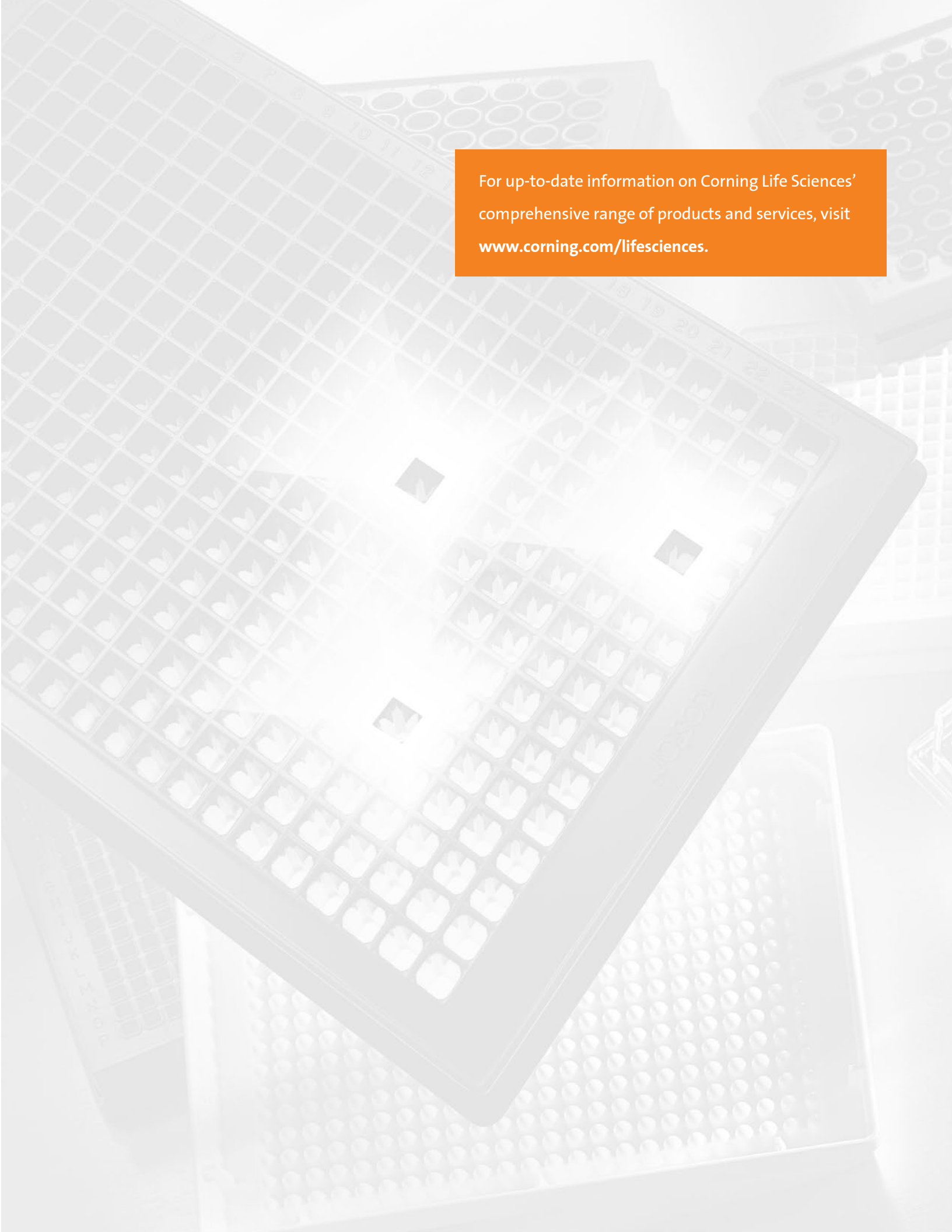
*ELISA = Enzyme-linked immunosorbent assay.

## 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.

| | Microplate Format | | | | | |
|---|---|---|---|---|---|---|
| **Surface Treatment** | **96-well** | **96-well Stripwell™** | **Half Area 96-well** | **384-well** | **Low Volume 384-well** | **1536-well** |
| **For General Assay** | | | | | | |
| Not treated (medium binding) | ■ | ■ | ■ | ■ | ■ | ■ |
| High binding | ■ | ■ | ■ | ■ | ■ | |
| Nonbinding | ■ | | ■ | ■ | ■ | ■ |
| Sulfhydryl (Sulfhydryl-BIND) binding | ■ | ■ | | | | |
| Carbohydrate (Carbo-BIND) binding | ■ | ■ | | | | |
| **For Cell Culture** | | | | | | |
| Tissue Culture (TC)-treated | ■ | ■ | ■ | ■ | ■ | ■ |
| Ultra-Low Attachment surface | ■ | | | ■ | | |
| Corning CellBIND surface | ■ | | | ■ | | ■ |
| Poly-D-Lysine | ■ | | | ■ | | |

# Catalog Number Index



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**Corning Incorporated**
*Life Sciences*
836 North St.
Building 300, Suite 3401
Tewksbury, MA 01876
t 800.492.1110
t 978.442.2200
f 978.442.2476
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f 31 (0) 20 659 76 73

**LATIN AMERICA**
grupoLA@corning.com

**Brasil**
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