

Corning® Half Area 96 and 384 Well Black Glass Bottom Microplates

Quick Technical Sales Sheet

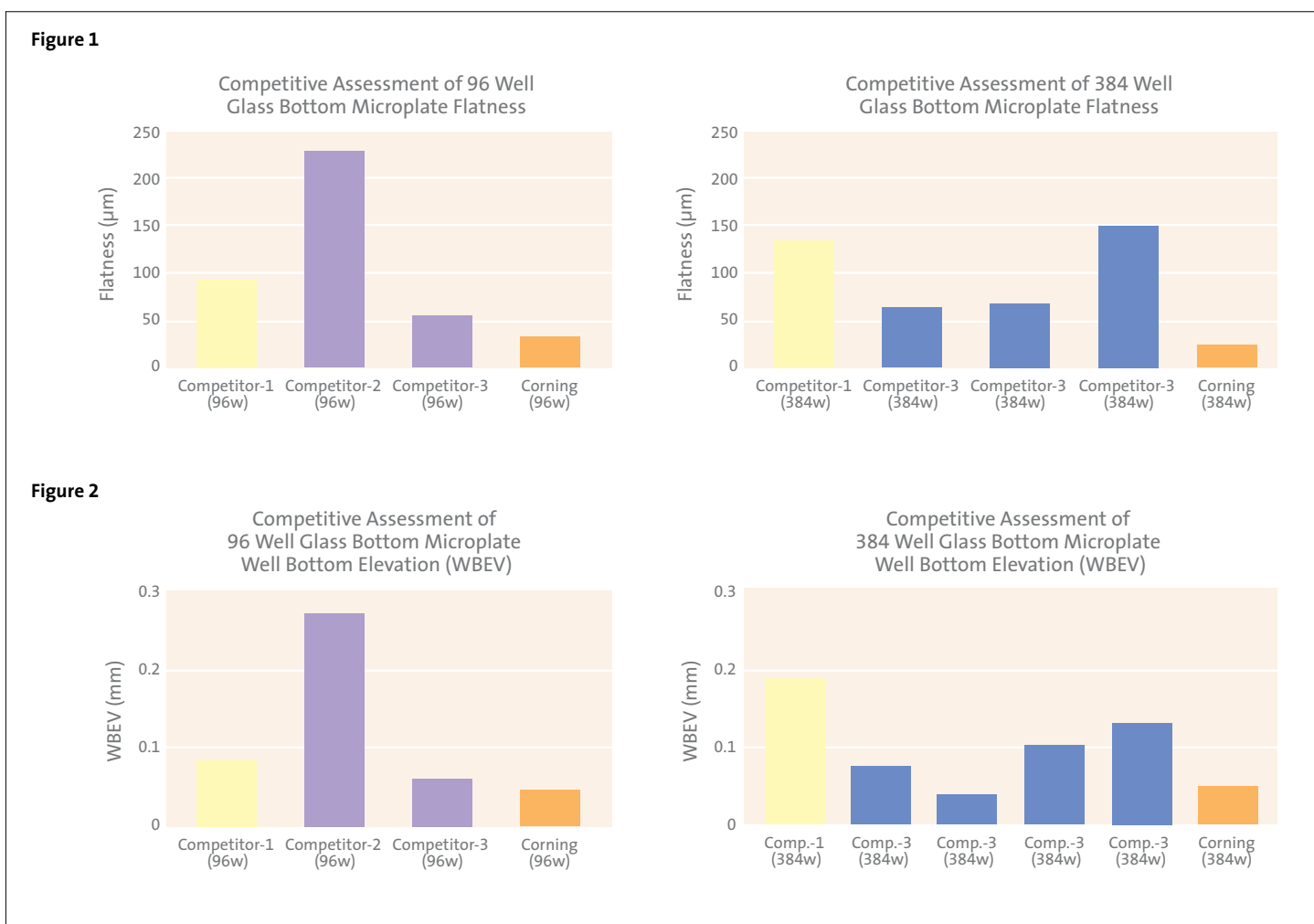
CORNING

Corning half area 96 and 384 well black glass bottom microplates are designed for high-sensitivity fluorescence detection, where low background and well bottom flatness are critical. Glass bottom microplates have excellent flatness and thickness uniformity to provide optically clear as well as optically flat surfaces for cell-based assays.

- ▶ Glass Bottom Thickness: 200 μm
- ▶ Microplate Bottom Flatness: <50 μm

Competitive Benchmark Against Other Commercially Available Glass Bottom Microplates

Corning glass bottom microplate functionality was assessed using MSLID (Measurement, Scanning, Label Independent Detection) as a measure of flatness across the bottom of the microplate (Fig. 1) and well bottom elevation (WBEV) (Fig. 2). Visual clarity and overall functionality were assessed using the GE Insight High Content Imager (Fig. 3).



Figures 1 and 2. Competitive benchmarking results comparing Corning 96 half area (left) and 384 well (right) glass bottom microplates. Corning outperforms the competitor products.

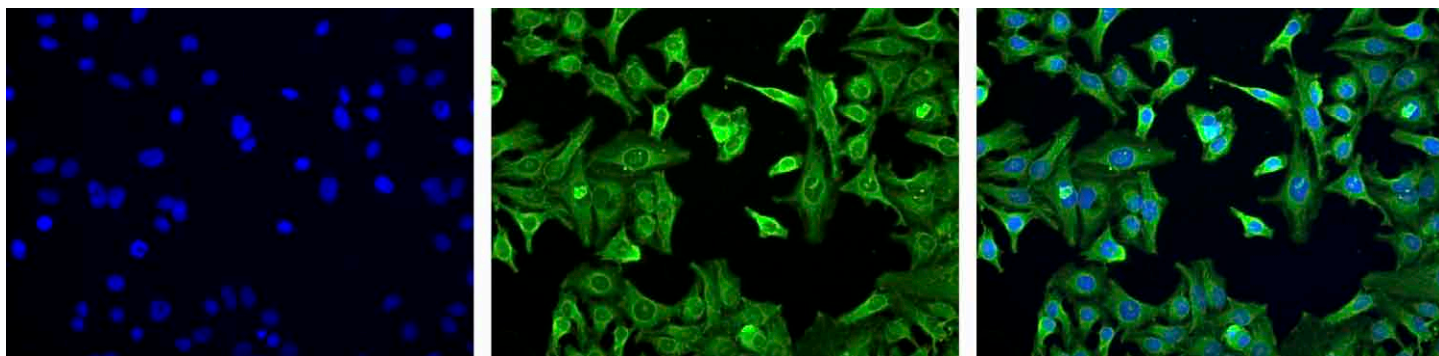


Figure 3. CHO Cell Images Using the GE Insight Imager. The figure on the left are CHO cells stained with the nuclear stain DAPI. The middle image shows Green Fluorescent Protein (GFP) staining. The figure on the right is an overlay of the two images. Magnification = 20x.

Summary

- ▶ Corning® glass bottom microplates are ideal for high content imaging.
- ▶ The microplate flatness (<50 µm) is better than competitive microplates tested.
- ▶ The 96 half area and 384 well microplates formats are designed for screening cell-based assays and provide options for assay miniaturization.

Glass Bottom Microplate Dimensions for Use When Optimizing on High Content Imagers

| Description | Well Area (mm ²) | Bottom Material | Flatness Spec (µm) | Thickness of Plate Bottom (µm) | Well Bottom Elevation (mm) | Refractive Index of Plate Bottom |
|---|------------------------------|-----------------|--------------------|--------------------------------|----------------------------|----------------------------------|
| Corning Glass bottom 96 well (half area) microplate | 15.9 | Glass | <50 | 200 | 2.4 | 1.523 |
| Corning Glass bottom 384 well microplate | 6.15 | Glass | <50 | 200 | 3.3 | 1.523 |



www.corning.com/lifesciences/solutions

At Corning, we continuously strive towards improving efficiencies and developing new products and technologies for life science researchers. From assay preparation to storage, our technical experts understand your challenges and your increased need for high-quality products.

It is this expertise, plus a 160-year legacy of Corning innovation and manufacturing excellence, that puts us in a unique position to be able to offer a beginning-to-end portfolio of high-quality, reliable life sciences consumables.

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

www.corning.com/lifesciences

Worldwide Support Offices

ASIA / PACIFIC
Australia/New Zealand
t 0402-794-347

China
t 86 21 2215 2888
f 86 21 6215 2988

India
t 91 124 4604000
f 91 124 4604099

Japan
t 81 3-3586 1996
f 81 3-3586 1291

Korea
t 82 2-796-9500
f 82 2-796-9300

Singapore
t 65 6733-6511
f 65 6861-2913

Taiwan
t 886 2-2716-0338
f 886 2-2516-7500

EUROPE

France
t 0800 916 882
f 0800 918 636

Germany
t 0800 101 1153
f 0800 101 2427

The Netherlands
t 31 20 655 79 28
f 31 20 659 76 73

United Kingdom
t 0800 376 8660
f 0800 279 1117

All Other European Countries

t 31 (0) 20 659 60 51
f 31 (0) 20 659 76 73

LATIN AMERICA

Brasil
t (55-11) 3089-7419
f (55-11) 3167-0700

Mexico
t (52-81) 8158-8400
f (52-81) 8313-8589

The Corning Family of Brands

CORNING costar cellgro PYREX AXYGEN GOSSELIN™