

Corning® Spheroid Microplates

96 well and 384 Well Black, Optically Clear Round-bottom, Ultra-Low Attachment Surface

Technical Brief

CORNING

With a novel and proprietary design, the new Corning Spheroid Microplates are ideal for generating and analyzing 3D multicellular spheroids with minimal handling. The combination of the Corning Ultra-Low Attachment surface and an innovative well geometry enable the formation of centered, uniform and reproducible spheroids for use in multiple applications including high throughput screening. This platform is available in 96 and 384 well formats.

Key benefits

- ▶ Culture and assay tumor spheroids or embryoid bodies in the same microplate with minimal handling and without the need for transferring the spheroid to a different plate for analysis
- ▶ Uniform spheroid formation across all wells
- ▶ Centering of the spheroid in each well enables automated and consistent visualization
- ▶ Ease of media exchange or treatment with various compounds and drugs

Example of tumor spheroid application

One application for the Spheroid Microplate is to culture tumor spheroids for high throughput screening. In Figure 1, HT-29 spheroids were generated in the Spheroid Microplates (96 and 384 well formats) and analyzed for the production of vascular endothelial growth factor (VEGF), a common protein secreted by tumor cells.

VEGF production (pg/cell) in the Spheroid Microplates was significantly higher than that observed in control microplates (Ultra-Low Attachment flat bottom microplates). Figure 2 demonstrates the versatility of the Spheroid microplates, as multiple cell lines were shown to form single, centered spheroids in both the 96 well (top row) and 384 well (bottom row) microplate formats. Micrographs were taken after incubating samples for 72 hours (2x magnification, scale bar represents 800 μ m).

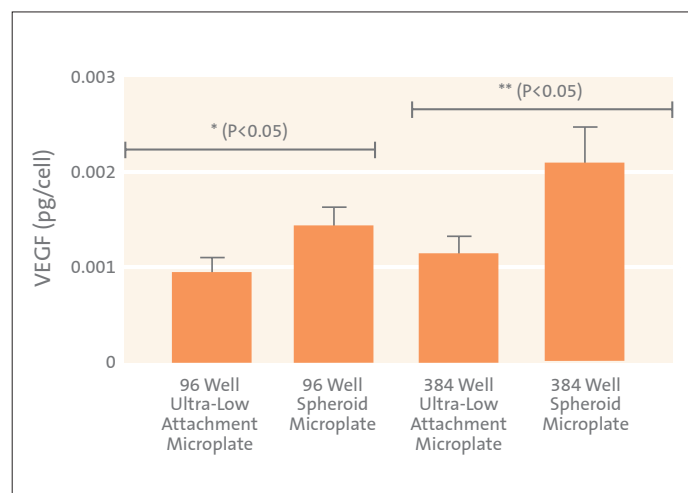
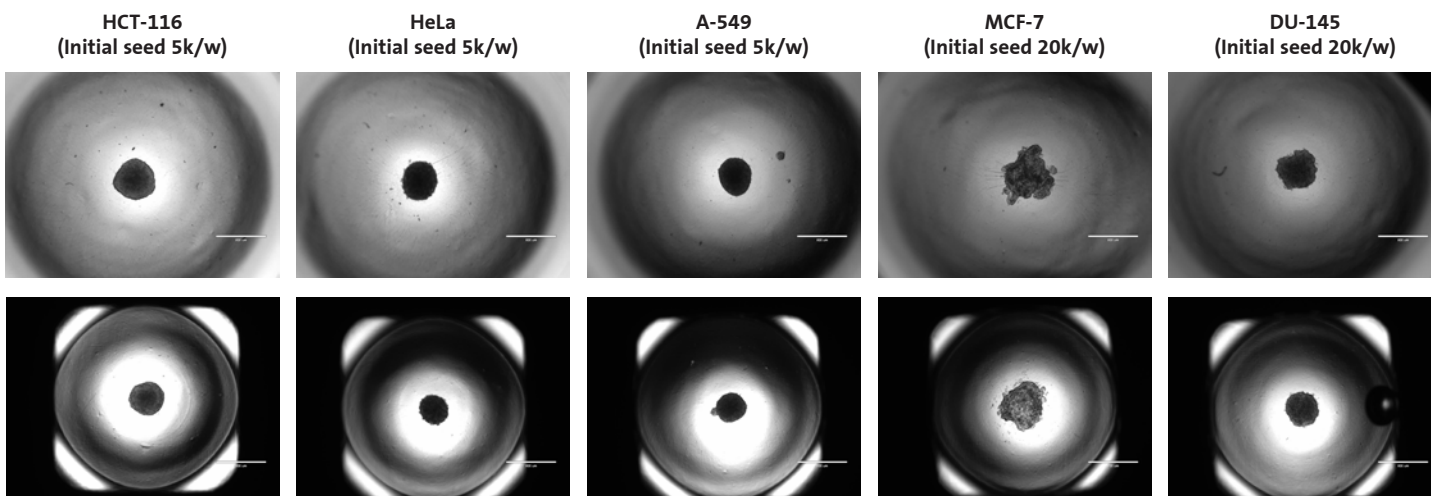


Figure 1. VEGF expression of HT-29 cells.

Figure 2. Representative micrographs of cell lines cultured in Spheroid Microplates.

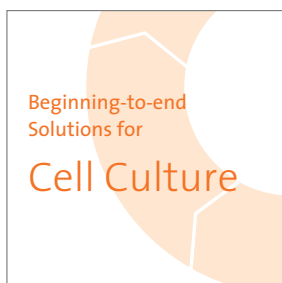


Ordering Information

Corning® 96 well and 384 well black, optically clear round-bottom, Ultra-Low Attachment Surface

Cat. No.	Description	Sterile	Qty/Pk	Qty/Cs
4520	96 well black with clear round-bottom with lid, Ultra-Low Attachment Surface	Yes	20	100
3830	384 well black with clear round-bottom with lid, Ultra-Low Attachment Surface	Yes	20	100

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At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

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

For additional product or technical information, please call 800.492.1110 or visit www.corning.com/lifesciences. Customers outside the United States, call +1.978.442.2200 or contact your local Corning sales office listed below.

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