

Corning® Ultra-Low Attachment Surface

Unique hydrogel surface inhibits cell attachment

CORNING



The same Ultra-Low Attachment surface that you have used on microplates is now available on a variety of Corning products!

The Ultra-Low Attachment surface is a unique covalently bonded hydrogel surface that is hydrophilic and neutrally charged. It minimizes cell attachment, protein absorption and enzyme activation. The surface is noncytotoxic, biologically inert and nondegradable.

The Ultra-Low Attachment surface is designed for:

- ▶ Maintaining cells in a suspended, unattached state
- ▶ Preventing stem cells from attachment-mediated differentiation
- ▶ Preventing anchorage-dependent cells from dividing
- ▶ Reducing binding of attachment and serum proteins to the substrate

New!

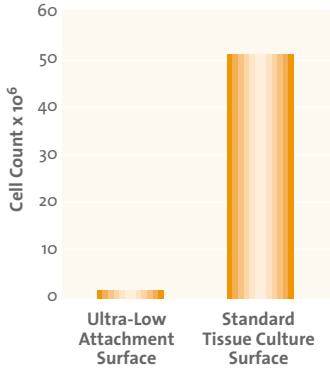


Corning Surfaces for Cell Culture

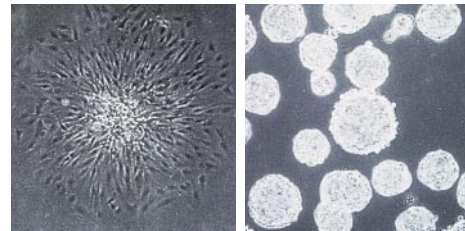
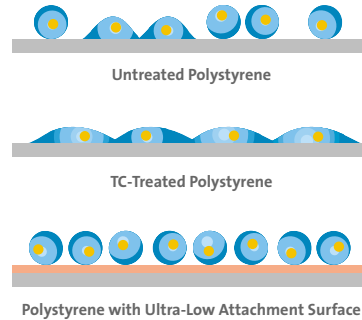
Untreated polystyrene has an **uncharged, hydrophobic** surface to which cell attachment proteins bind poorly. This results in poor and very uneven cell attachment and growth.

Tissue culture (TC) treated polystyrene has a **negatively charged, hydrophilic** surface to which cell attachment proteins bind evenly. This provides a good surface for cell attachment and growth.

The Ultra-Low Attachment surface has a **neutral, hydrophilic hydrogel** coating which greatly reduces binding of attachment proteins. This minimizes cell attachment and spreading.



Cell attachment on the two surfaces was compared. Cell attachment inhibition on the Ultra-Low Attachment surface was calculated as a percent reduction using the standard tissue culture treated surface as the reference point. The results indicate a 99.8% reduction in cell attachment of Vero cells on the Ultra-Low Attachment surface as compared to the standard tissue culture surface.



C6 glioma cell colony on tissue culture treated surface (left) and spheroid colonies on Ultra-Low Attachment surface (right).

The following reference is recommended for customers who want additional information on the differences of these cell culture surfaces: M. Shen and T. A. Horbett. *The effects of surface chemistry and adsorbed proteins on monocyte/macrophage adhesion to chemically modified polystyrene surfaces*. J. Biomedical Material Research, 2001, Dec 5; Vol. 57(3):336-345.

Corning Ultra Low Attachment Products Ordering Information

Cat. No.	Description	Qty/Pk	Qty/Cs
3261	60 mm style dish with Ultra-Low Attachment surface	5	20
3262	100 mm style dish with Ultra-Low Attachment surface	5	20
3471	6 well plate with Ultra-Low Attachment surface	1	24
3473	24 well plate with Ultra-Low Attachment surface	1	24
3474	96 well plate with Ultra-Low Attachment surface, flat bottom	1	24
New 7007	96 well plate with Ultra-Low Attachment surface, round bottom	1	24
New 3815	25 cm ² flask, canted neck, vent cap, coated with Ultra-Low Attachment surface	6	24
New 3814	75 cm ² flask, canted neck, vent cap, coated with Ultra-Low Attachment surface	4	24
New 3303	CellSTACK® Chamber, 1-STACK, coated with Ultra-Low Attachment surface	1	8



25 cm² Ultra-Low Attachment Canted Neck Flask

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

CORNING

Corning Incorporated Life Sciences

Tower 2, 4th Floor
900 Chelmsford St.
Lowell, MA 01851
t 800.492.1110
t 978.442.2200
f 978.442.2476

www.corning.com/lifesciences

Worldwide Support Offices

ASIA/PACIFIC

Australia
t 61 2-9416-0492
f 61 2-9416-0493

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