Corning® Ultra-Low Attachment Surface

Unique hydrogel surface that inhibits cell attachment

CORNING

The same Corning Ultra-Low Attachment (ULA) surface that you have used on microplates is available on a variety of Corning cultureware vessels.

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 ideal for:

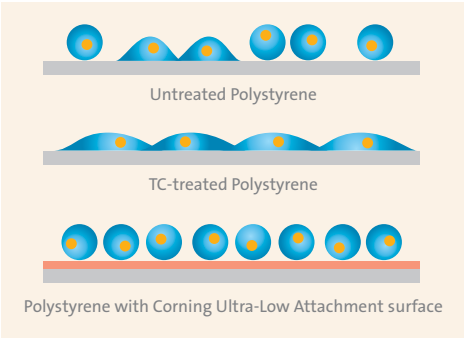
- Formation of 3D multicellular spheriods
- Maintaining cells in a suspended, unattached state
- Preventing stem cells from attachment-mediated differentiation
- Preventing anchorage-dependent cells from dividing
- Reducing binding of attachment and serum proteins to the substrate

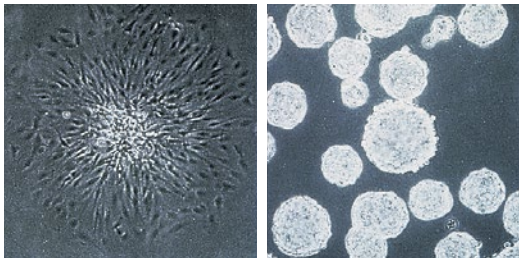
Corning® Surfaces for Cell Culture

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.

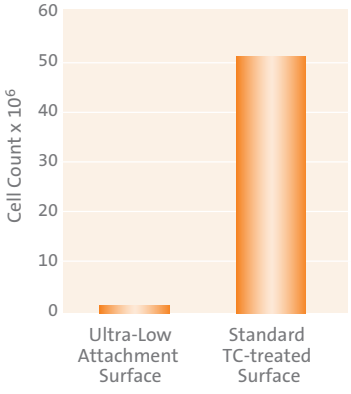
Tissue culture (TC)-treated polystyrene has a **negatively charged**, **hydrophilic** surface to which cell attachment proteins bind evenly. This provides a good surface for cell attachment and growth.

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

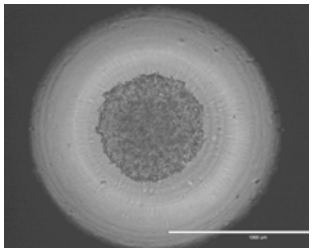




C6 glioma cell colony on TC-treated surface (left) and spheroid colonies on Corning Ultra-Low Attachment surface (right).



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 TC-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.



Multicellular spheroid formation after a 24-hour culture of HT-29 cells in the 384-well spheroid microplate (Cat. No. 3830).

Ordering Information

Corning® Ultra-Low Attachment (ULA) Surface Products

Cat. No.	Description	Qty/Pk	Qty/Cs
Dishes			
3261	60 mm style dish, ULA surface, sterile	5	20
4615	100 mm style dish, ULA surface, sterile	5	40
Plates/Microplates			
3471	6-well plate, clear, flat bottom, with lid, ULA surface, sterile	1	24
3473	24-well plate, clear, flat bottom, with lid, ULA surface, sterile	1	24
3474	96-well microplate, clear, flat bottom, ULA surface, sterile	1	24
7007	96-well microplate, clear, round bottom, with lid, ULA surface, sterile	1	24
4591	96-well microplate, black, round bottom, with lid, ULA surface, sterile	1	24
4588	384-well microplate, black/clear, flat bottom, low flange, with lid, ULA surface, sterile	20	100
Spheroid Microplates			
4515	96-well spheroid microplate, black/clear, round bottom, with lid, ULA surface, sterile	1	5
4520	96-well spheroid microplate, black/clear, round bottom, with lid, ULA surface, sterile	10	50
4516	384-well spheroid microplate, black/clear, round bottom with lid, ULA surface, sterile	1	5
3830	384-well spheroid microplate, black/clear, round bottom, with lid, ULA surface, sterile	10	50
3830BC	384-well spheroid microplate, black/clear, round bottom, with lid, with bar code, ULA surface, sterile	10	50
4637	1536-well spheroid microplate, black/clear round bottom, with lid, ULA surface, sterile	1	5
4527	1536-well spheroid microplate, black/clear round bottom, with lid, ULA surface, sterile	10	50
Corning Elplasia® Microplates			
4440	Corning Elplasia 6-well round bottom plate, with lid, ULA surface	1	5
4441	Corning Elplasia 24-well round bottom plate, with lid, ULA surface	1	5
4442	Corning Elplasia 96-well round bottom microplate, with lid, ULA surface	1	5
Flasks			
4616	25 cm^2 flask, ULA surface, canted neck, vent cap, sterile	5	25
3814	75 cm^2 flask, ULA surface, U-shaped, canted neck, vent cap, sterile	4	24
Corning CellSTACK® Cell Culture Vessel			
3303	Corning CellSTACK 1-stack cell culture vessel, ULA surface, sterile	1	8

For more specific information on claims, visit www.corning.com/certificates.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use or general laboratory use only.* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. ***NOTE:** The following products and their sterile accessories are considered US class I medical devices: Tissue culture plates, flasks and dishes (area >100 cm^2), multilayer flasks, spinner flasks, Erlenmeyer flasks, Corning HYPERFlask and HYPERStack vessels, Corning CellSTACK chambers, centrifuge tubes, cell culture tubes, cryogenic vials, roller bottles, polystyrene microcarrier beads. Falcon IVF products are US class II and CE marked per the EU medical device directive 93/42/EEC.

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