Tools for Efficient 3-Dimensional Cell Culture

Quick Reference Guide

CORNING

Researchers have embraced 3D cell culture for good reasons:

- Cells grown in 3D more closely mimic the *in vivo* behavior of tissues and organs
- 3D environments create more biologically relevant models for research and drug discovery
- Higher success rates for drug compound testing can reduce development costs

Corning provides proven tools for the critical steps of 3D cell culture.



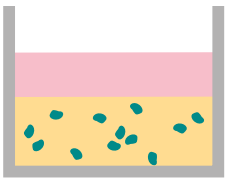
Proliferating cells

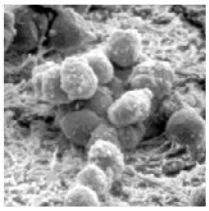


Primary cells



Cell Different in a Matrix

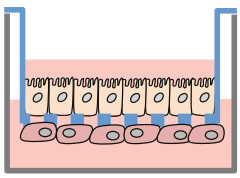


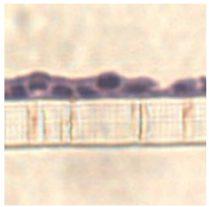


Applications

- Cell function
- Cell-ECM interaction
- Compound screening with organoids

Cell Differentiation on Porous Membranes

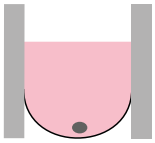


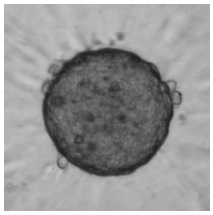


Applications

- Cell function
- Cell motility
- Co-culture models
- Compound screening based on cell barrier

Cell Aggregation as Spheroids





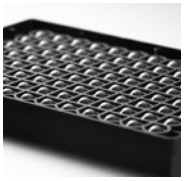
Applications

- Cell function
- Cell-cell interaction
- Co-culture models
- Compound screening with spheroids

Lisburn: 028 9262 1100
Dublin: 01 4069464
www.analab.co.uk or www.analab.ie
sales@analab.co.uk or sales@analab.ie
AnaLab

3D Cell Culture Made Simple with Analab and Corning

Select Products for 3-Dimensional Cell Culture















Ultra-Low Attachment (ULA) Surface Cultureware

Cat. No.	Description	Qty/Pk	Qty/Cs
4515	Corning® Spheroid microplate, 96-well, black/clear round bottom, with lid, ULA surface, sterile, individually wrapped	1	5
4516	Corning Spheroid microplate, 384-well, black/clear round bottom, with lid, ULA surface, sterile, individually wrapped	1	5
3471	Costar® 6-well clear plate, ULA surface, with lid, individually wrapped	1	24
3474	Corning 96-well clear microplate, flat bottom, ULA surface, with lid, individually wrapped	1	24
7007	Corning 96-well clear microplate, round bottom, ULA surface, with lid, individually wrapped	1	24
3814	Corning 75 cm^2 U-shaped flask, canted neck, ULA surface, vented cap	4	24

Permeable Supports

3412	Transwell® Inserts in 6-well plates, 24 mm, 0.4 µm, Tissue Culture (TC)-treated, PC membrane, sterile	6	24
353090	Falcon® inserts for 6-well plates, 0.4 µm, transparent, PET-membrane, sterile	6	48
3479	Netwell™ Inserts in 6-well plates, 24 mm, 74 µm, PTFE, sterile	6	48
351152	Corning FluoroBlok™ HTS 24-well Plate permeable support with 8.0 µm colored PE membrane, sterile	8	48
351181	Falcon 24-well multiwell insert system with 1.0 µm pore PET membrane, with feeder tray and lid	5	5
3384	HTS Transwell 96-well with receiver plate and lid, 8.0 µm, TC-treated (membrane), PET membrane, bulk	4	8

Cell Strainer

352340	Falcon 40 µm Cell strainer	1	50

Culture Media

10-013-CVR	500 mL DMEM (4,5 g/L glucose, L-glutamine and sodium pyruvate)	500 mL	6
10-022-CVR	500 mL MEM (Minimum Essential Medium) Alpha Medium with Earle's salts, ribonucleosides, deoxyribonucleosides, and L-glutamine	500 mL	6
10-060-CVR	500 mL Medium 199 (Mod.) with Earle's salts and L-glutamine	500 mL	6
10-080-CVR	500 mL Ham's F-12 Medium with L-glutamine	500 mL	6
15-041-CVR	500 mL RPMI 1640 with 25 mM HEPES, without L-glutamine	500 mL	6

Vialed Extracellular Matrices

356230	Corning Matrigel® Growth Factor Reduced (GFR) basement membrane matrix, 5 mL	1	1
354248	Corning Basement Membrane Matrix high concentration (HC), LDEV-free, 10 mL	1	1
354236	Corning Collagen I, rat tail, 100 mg	1	1
354249	Corning Collagen I, high concentration, rat tail, 100 mg	1	1
354239	Corning Ultrapure Laminin, mouse, 1 mg	1	1
354250	Corning PuraMatrix™ Peptide Hydrogel, 5 mL	1	1

Reagents

354235	Corning Dispase, 100 mL	1	1
354253	Corning Cell recovery solution, 100 mL	1	1
354216	Falcon Calcein AM fluorescent dye, 500 µg, 10 x 50 µg	1	10

Pre-Coated Cultureware

354432	Corning BioCoat™ Matrigel Matrix 6-well clear flat bottom TC-treated multiwell plate, with lid, nonsterile	1	2

Corning Cooling Systems and Accessories

432003	Corning CoolCell® LX, orange freezing container, for 12 x 1 mL or 2 mL cryogenic vials	1	1
432008	Corning CoolCell FTS30, green freezing container, for 30 x 1 mL or 2 mL cryogenic vials	1	1
432014	Corning CoolBox™ XT Starter complete, low profile, open platform ice-free cooler	1	1
432021	Corning CoolBox XT, purple cooling and freezing workstation, single capacity	1	1
432034	Corning CoolRack® M6, gray holds 6 x 1.5 or 2 mL microcentrifuge tubes	1	1
432044	Corning CoolRack M90, gray, holds 90 x 1.5 or 2 mL microcentrifuge tubes	1	1
432070	Corning CoolSink® XT96F, flat bottom plate module	1	1
432071	Corning CoolSink XT 96U, 96-well U-bottom microplate module	1	1

Equipment

6749	Corning Cell Counter	1	1
4099	Corning Stripettor™ Ultra Pipet Controller	1	1
6791	Corning LSE™ Benchtop shaking incubator with platform, 230V (EU Plug)	1	1

00376

Lisburn: 028 9262 1100
Dublin: 01 4069464
www.analab.co.uk or www.analab.ie
sales@analab.co.uk or sales@analab.ie