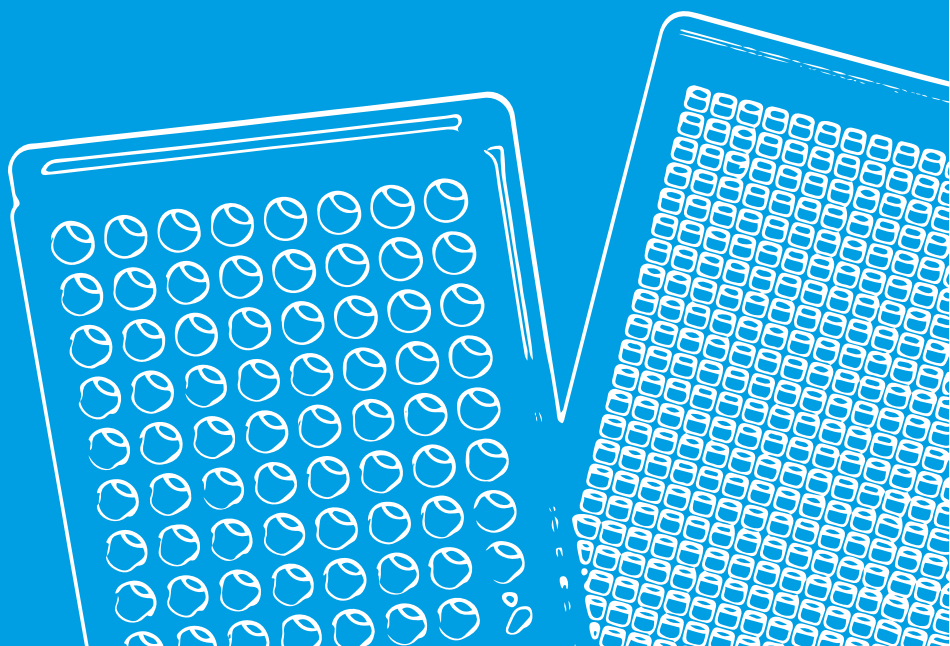


making a difference

DISCOVER

THE BEST SURFACE

FOR YOUR CELLS



CELLCOAT® SCREENSTAR

MultiCoat Test Plate

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CELLCOAT® SCREENSTAR MULTICOAT TEST PLATE

DISCOVER THE BEST SURFACE FOR YOUR CELLS

To determine the optimal cell culture surface for your assay, the CELLCOAT® SCREENSTAR MultiCoat test plate allows rapid and easy testing of a variety of biological coatings.

Take advantage of 11 different peptide and protein coatings within a single microplate to select the most appropriate in-vivo mimicking environment for your specific cell type. Like the proven standard SCREENSTAR plates, the 96 and 384 well MultiCoat plates feature a black frame and a transparent cycloolefin film bottom with glass-like optical properties and planarity ideal for high-resolution fluorescence imaging.

By choosing the optimal protein-coated surface for your cells, improve cell attachment, spreading, distribution and growth or modulate differentiation and protein expression.

Each coating featured on the MultiCoat test plate is individually available on 96 / 384 / 1536 well SCREENSTAR plates (20 pieces/case).

KEY FACTS

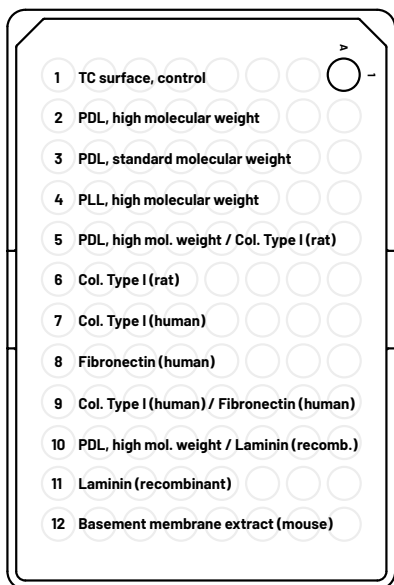
- / Ready to use
- / Ideal to identify the optimal coating
- / 11 different coatings (single and double coatings) plus control on one plate
- / Available with 96 / 384 well plates ideal for high-resolution imaging
- / Two plates per package



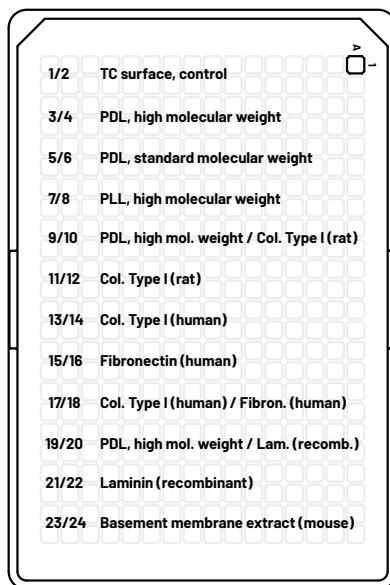
PLEASE NOTE

Product and coatings are stable for 6 months when stored at 2-8°C.

COATING LAYOUT



Coating layout of the 96 well MultiCoat Test Plate. Each row consists of an individual coating.



Coating layout of the 384 well MultiCoat Test Plate. Two rows each consist of an individual coating.

OVERVIEW OF PEPTIDE & PROTEIN COATINGS

Poly-D-Lysine (PDL) & Poly-L-Lysine (PLL) are synthetic poly-peptides commonly used for cell culture coatings, providing a highly positive charged surface that enhances cell adhesion. PDL coatings are more durable based on their resistance against proteases released by certain cell types.

Collagen Type I (Col. Type I) is a major component of the extracellular matrix (ECM) of numerous cell types. Collagen coatings help mimic the in-vivo microenvironment and promote cell adhesion, proliferation and differentiation of mesenchymal and connective tissue-derived cells.

Fibronectin is a glycoprotein that connects membrane-spanning receptors (“integrins”) to extracellular matrix proteins like collagens and heparan sulfate proteoglycans. Fibronectin-binding integrin receptors are present in cell membranes of numerous cell types making fibronectin coatings a preferred choice to facilitate fast, strong attachment, spreading and growth of many cell types.

Laminin is a glycoprotein and major component of the basement membrane. It binds to integrin cell surface receptors in the cell membrane and to type IV collagen, fibronectin and proteoglycans in the extracellular matrix. As a vital support for scaffolding the basal lamina, laminin coatings promote structural integrity, cell adhesion, migration and tissue organisation, and are commonly used for culturing neurons, muscle cells, epithelial and endothelial cells.

Basement membrane extract (BME) is derived from Engelbreth-Holm-Swarm mouse sarcoma, composed predominantly of laminin, type IV collagen and heparan sulfate proteoglycan. It mimics the basement membrane extracellular environment in many tissues and is used as a “thin coating” for cell adhesion and support of cell-specific phenotype in complex 2D-cell models.

SCREENSTAR PLATES

SCREENSTAR microplates are specialised products for sophisticated microscopic applications, in high-content screening (HCS) or high-resolution microscopy with water and oil immersion objectives. They feature an excellent surface for adherent cell culture and display excellent optical properties with reduced autofluorescence in the lower UV range, low birefringence and a refractive index of 1.53 comparable to glass.

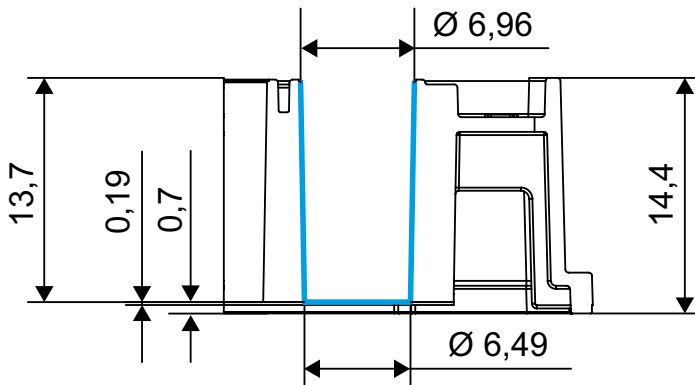
SCREENSTAR microplates are manufactured out of cycloolefin with a black pigmented cycloolefin frame and a 190 µm ultraclear cycloolefin film bottom. Due to the recessed bottom of the wells, it is possible to use oil or water-immersion objectives with high magnification to gain access to all wells of the microtiter plate without limitations in edge and corner positions. SCREENSTAR microplates are available in 96, 384 and 1536 well format.



FURTHER INFORMATION ON SCREENSTAR PLATES

Plastic Labware for Optimal Results in Modern Life
Science Microscopy Using ZEISS Axio Observer and
ZEISS Celldiscoverer 7

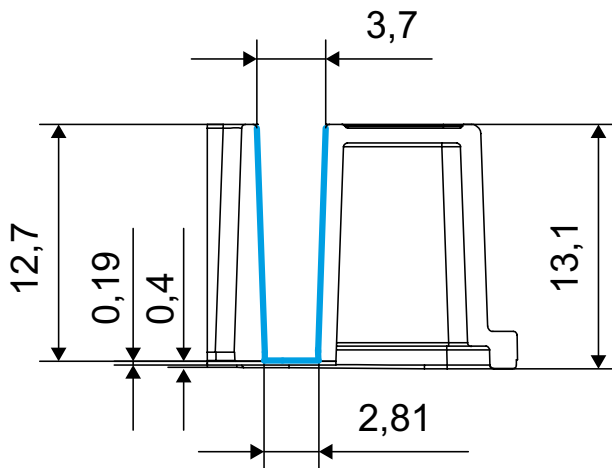




Well design of a 96 well SCREENSTAR microplate

Well bottom elevation: 0.7 mm

Distance microplate rim to external well bottom: 0.51 mm



Well design of a 384 well SCREENSTAR microplate

Well bottom elevation: 0.4 mm

Distance microplate rim to external well bottom: 0.21 mm

ORDERING INFORMATION

MultiCoat Test Plates

Product colour: black, Well profile: F-Bottom, Bottom: Cycloolefin film, Raw material: cycloolefin polymer (COP), Surface treatment: CELLCOAT®, Lid: yes, condensation rings

Item No.	Well format	Protein coating	Working volume	Qty. inner / outer
655866-MCP	96	11 different peptide & protein coatings (single & double coatings)	25 µl - 440 µl	1 / 2
781866-MCP	384	11 different peptide & protein coatings (single & double coatings)	10 µl - 110 µl	1 / 2

CELLCOAT® SCREENSTAR Protein-Coated Plates

Product colour: black, Well profile: F-Bottom, Bottom: Cycloolefin film, Raw material: cycloolefin polymer (COP), Surface treatment: CELLCOAT®, Lid: yes, condensation rings, Generic barcode (Code 128) applied to all four sides of the microplate

Item No.	Well format	Protein coating	Working volume	Qty. inner / outer
655743	96	PDL, high molecular weight	25 µl - 440 µl	5 / 20
655746	96	PDL, standard molecular weight	25 µl - 440 µl	5 / 20
655736	96	PLL, high molecular weight	25 µl - 440 µl	5 / 20
655756	96	Collagen Type I (rat)	25 µl - 440 µl	5 / 20
655757	96	Collagen Type I (human)	25 µl - 440 µl	5 / 20
655726	96	Fibronectin (human)	25 µl - 440 µl	5 / 20
655716	96	Laminin (recombinant)	25 µl - 440 µl	5 / 20
655766	96	Basement membr. extract (mouse)	25 µl - 440 µl	5 / 20
655745	96	PDL, high mol. weight / Col. Type I (rat)	25 µl - 440 µl	5 / 20
655741	96	PDL, high mol. weight / Laminin (recomb.)	25 µl - 440 µl	5 / 20
655752	96	Col. Type I (human) / Fibronectin (human)	25 µl - 440 µl	5 / 20

Item No.	Well format	Protein coating	Working volume	Qty. inner / outer
781743	384	PDL, high mol. weight	10 µl - 110 µl	5 / 20
781746	384	PDL, standard mol. weight	10 µl - 110 µl	5 / 20
781736	384	PLL, high mol. weight	10 µl - 110 µl	5 / 20
781756	384	Collagen Type I (rat)	10 µl - 110 µl	5 / 20
781757	384	Collagen Type I (human)	10 µl - 110 µl	5 / 20
781726	384	Fibronectin (human)	10 µl - 110 µl	5 / 20
781716	384	Laminin (recombinant)	10 µl - 110 µl	5 / 20
781766	384	Basement membrane extract (mouse)	10 µl - 110 µl	5 / 20
781745	384	PDL, high mol. weight / Col. Type I (rat)	10 µl - 110 µl	5 / 20
781741	384	PDL, high mol. weight / Laminin (recomb.)	10 µl - 110 µl	5 / 20
781752	384	Col. Type I (human) / Fibronectin (human)	10 µl - 110 µl	5 / 20
789743	1536	PDL, high mol. weight	3 µl - 15 µl	5 / 20
789746	1536	PDL, standard mol. weight	3 µl - 15 µl	5 / 20
789736	1536	PLL, high mol. weight	3 µl - 15 µl	5 / 20
789756	1536	Collagen Type I (rat)	3 µl - 15 µl	5 / 20
789757	1536	Collagen Type I (human)	3 µl - 15 µl	5 / 20
789726	1536	Fibronectin (human)	3 µl - 15 µl	5 / 20
789716	1536	Laminin (recombinant)	3 µl - 15 µl	5 / 20
789766	1536	Basement membrane extract (mouse)	3 µl - 15 µl	5 / 20
789745	1536	PDL, high mol. weight / Col. Type I (rat)	3 µl - 15 µl	5 / 20
789741	1536	PDL, high mol. weight / Laminin (recomb.)	3 µl - 15 µl	5 / 20
789752	1536	Col. Type I (human) / Fibronectin (human)	3 µl - 15 µl	5 / 20

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www.gbo.com

GREINER BIO-ONE GMBH
FRICKENHAUSEN, GERMANY

PHONE +49 7022 948-0
FAX +49 7022 948-514
E-MAIL info@de.gbo.com



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