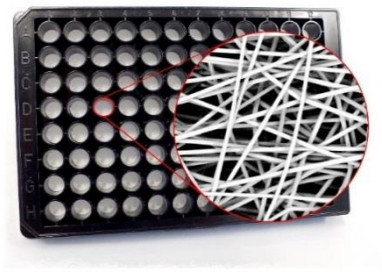
MIMETIX
CELLS IN 3D

Mimetix® 96-well plate



The Mimetix 96-well plate, our highly-consistent and easy-to-use 3D platform, holds great promise to reduce the number of costly drug failures in clinical trials, enabling more realistic tumour and toxicology models.

Product Code TECL-002

Product Description:

The Mimetix electrospun scaffold is incorporated into a standard 96-well plate frame using a proprietary laser-welding technology which provides minimal base distortion and avoids the use of glues. The base is 190μm polystyrene with excellent optical properties and high light transmission.

The scaffold is thick enough to provide the benefits of 3D cell morphology and behaviour yet thin enough to allow microscopic imaging.

Features:

- True 3D environment rather than a roughened 2D surface
- Minimal protocol adaption required to switch from 2D to 3D
- Compatible with fluorescence microscopy
- Scaffolds can be coated with materials to facilitate cell adhesion in low serum conditions
- Protocols for cell seeding, retrieval, assays, and imaging are available in the Technical Support section on our website

Scaffold Specifications:

- Material: medical-grade poly-L-lactide (PLLA)
- Orientation: Random, non-woven
- Thickness: 50 μm
- Fibre diameter: 4 μm (15-30 μm pores)
- Overall porosity: app. 80%
- Non-biodegradable in *in vitro* applications

Plate Specifications:

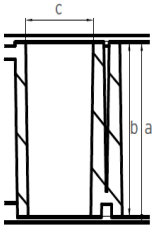


Plate width:	127.76 ± 0.25 mm
Plate depth:	85.48 ± 0.25 mm
Plate height (a):	14.35 ± 0.25 mm
Well depth (b):	10.8 ± 0.25 mm
Well diameter (c):	6.3 ± 0.10 mm
Distance to centre of A1 from top edge:	11.24 ± 0.25 mm
Distance to centre of A1 from left edge:	14.38 ± 0.25 mm
Pitch (distance between A1 and A2):	9.0 mm

- Supplied with a lid in individually -sealed plastic wrapping
- Treated with gamma or e-beam irradiation
- Store at room temperature in the dark
- Manufactured in the United Kingdom

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Precondition

The Mimetix scaffold needs to be wetted with ethanol in order to allow a cell suspension to access the pores.

- Add 100 μL 20% ethanol per well..
- Allow ethanol to soak into the membrane for 5 min, then aspirate ethanol carefully without touching the scaffold.

Wash

- Wash scaffold twice with PBS.
- Leave scaffold in cell culture medium until cell seeding.

Seed

These seeding densities are general guidelines only.

- Add 10,000 cells suspended in 100-200 μL cell culture medium.

Exchange medium

- For long-term experiments semi-exchange the cell culture medium every 3 days.

ELECTROSPINNING COMPANY

Please visit our website for more information on our products, protocols and to order samples.

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