Mimetix® Aligned 12-well plate

The Mimetix Aligned fibre scaffold is held in cell crown inserts for 12-well plates and is an easy to use tool for the 3D culture of cells which are influenced by topographical features, including cells that myelinate.

Product Code TECL-006

Product Description:

The Mimetix aligned fibres are fixed into Cell Crown™ inserts and placed in standard (Corning) 12-well plates with lids.

Aligned microfibres provide a physical structure for the 3D culture of cell from tissues such as the central nervous system, skeletal muscle and heart where orientation influences behaviour.

Features:

- Compatible with industry-standard automated handling and imaging equipment including fluorescence microscopy
- Scaffolds can be coated with materials to facilitate cell adhesion in low serum conditions
- Protocols for cell seeding, assays, and imaging are available in the Technical Support section on our website
- Manufactured in the United Kingdom

Scaffold Specifications:

- Material: medical-grade poly-L-lactide (PLLA)
- Orientation: Aligned
- Fibre diameter: 2 µm
- Thickness: 2 to 4 µm
- Scaffold density:130 fibres/mm
- Non-biodegradable in *in vitro* applications
- Supplied in standard 12 well plate with lid in individually-sealed plastic wrapping
- Treated with gamma or e-beam irradiation
- Store at room temperature in the dark

Cell Crown™ specifications

Outer diameter of the body	17 mm
Inner diameter of the body	14 mm
Inner surface area	1.54 cm^2
Height of the body	12 mm
Inner diameter of the ring	17.5 mm
Height of the ring	3 mm

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

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MIMETIX
CELLS IN 3D

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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 1 mL 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

We recommend seeding as for 2D.

- Add the cells suspended in 1 mL cell culture medium.

Exchange medium

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

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