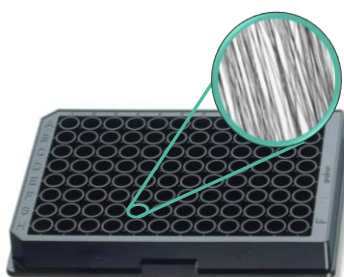




Mimetix[®] Aligned 96-well plate

AMS.TECL-005-1X AMS.TECL-005-8X



The Mimetix Aligned 96-well plate is an easy to use tool for the culture of cells which are influenced by topographical features, including cells that myelinate.

Product Description:

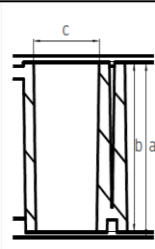
The Mimetix aligned fibres are incorporated into a standard 96-well plate frame using a proprietary laser-welding technology which provides minimal base distortion and avoids the use of glues. The base is 190µm polystyrene with excellent optical properties and high light transmission.

Aligned microfibres provide a physical structure for the 3D culture of cells from tissues such as the central nervous system, skeletal muscle and heart, where cellular orientation has been shown to play a significant role in the respective tissue function.

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

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 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

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

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Precondition

The Mimetix scaffold needs to be wetted with ethanol in order to allow the cells to attach to the fibres.

- Add 100 μ L of 20% ethanol per well.
- Allow ethanol to soak into the membrane for 5 min, then aspirate it 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 your cells suspended in 100-200 μ L cell culture medium.

Exchange medium

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

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