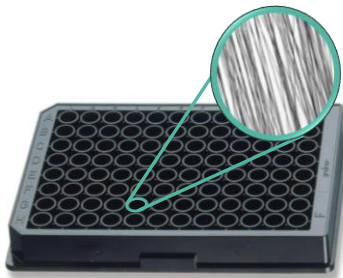




# Mimetix<sup>®</sup> Aligned 96-well plate



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 Code TECL- 005**

## 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 190  $\mu$ m 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 in the [Technical Support](#) section on our website

## Plate Specifications:

Plate width:	127.76 $\pm$ 0.25 mm
Plate depth:	85.48 $\pm$ 0.25 mm
Plate height (a):	14.35 $\pm$ 0.25 mm
Well depth (b):	10.8 $\pm$ 0.25 mm
Well diameter (c):	6.3 $\pm$ 0.10 mm
Distance to centre of A1 from top edge:	11.24 $\pm$ 0.25 mm
Distance to centre of A1 from left edge:	14.38 $\pm$ 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  $\mu$ m
- Thickness: 2 to 4  $\mu$ m
- Scaffold density: 130 fibres/mm



# Mimetix<sup>®</sup> Aligned 96-well plate

## Precondition

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

- Add 100  $\mu$ 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  $\mu$ L cell culture medium.

## Exchange medium

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

