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 190 μm 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:**

- 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
Precondition
The Mimetix scaffold needs to be wetted with ethanol in order to allow the cells to attach to the fibres.
- Add 100 µL 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 µL cell culture medium.

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