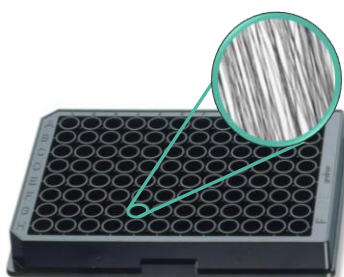




# Mimetix<sup>®</sup> Aligned 96-well plate

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:

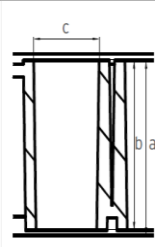
The Mimetix aligned fibres are incorporated into a standard 96-well plate frame using a proprietary laser-welding technology which provides minimal base distortion and avoids the use of glues. The base is 190µm polystyrene with excellent optical properties and high light transmission.

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

AMSBIO | [www.amsbio.com](http://www.amsbio.com) | [info@amsbio.com](mailto:info@amsbio.com)



**UK & Rest of the World**  
AMS Biotechnology (Europe) Ltd  
184 Park Drive, Milton Park  
Abingdon, UK  
T: +44 (0)1235 828 200  
F: +44 (0) 1235 820 482



**North America**  
amsbio LLC  
1035 Cambridge Street,  
Cambridge, MA 02141  
T: +1 (617) 945-5033 or  
T: +1 (800) 987-0985  
F: +1 (617) 945-8218



**Germany**  
AMS Biotechnology (Europe) Ltd  
Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
T: +49 (0) 69 779099  
F: +49 (0) 69 13376880



**Switzerland**  
AMS Biotechnology (Europe) Ltd  
Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
T: +41(0) 91 604 55 22  
F: +41(0) 91 605 17 85



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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  $\mu$ 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.

AMSBIO | [www.amsbio.com](http://www.amsbio.com) | [info@amsbio.com](mailto:info@amsbio.com)



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T: +44 (0)1235 828 200  
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**North America**  
amsbio LLC  
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Cambridge, MA 02141  
T: +1 (617) 945-5033 or  
T: +1 (800) 987-0985  
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**Germany**  
AMS Biotechnology (Europe) Ltd  
Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
T: +49 (0) 69 779099  
F: +49 (0) 69 13376880



**Switzerland**  
AMS Biotechnology (Europe) Ltd  
Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
T: +41(0) 91 604 55 22  
F: +41(0) 91 605 17 85