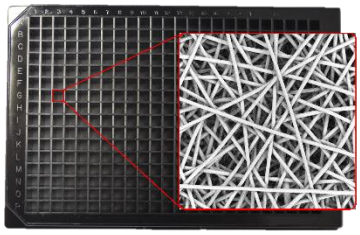
Mimetix® 384-well plate

AMS.TECL-001-1X AMS.TECL-001-8X



The Mimetix 384-well plate, our highly-consistent and easy-to-use 3D platform for high-throughput cell-based assays, holds great promise to reduce the number of costly drug failures in clinical trials, enabling more realistic tumour and toxicology models.

Product Description:

The Mimetix scaffold is incorporated into a standard 384-well plate frame using a proprietary welding technology, which provides minimal base distortion and avoids the use of glues. The scaffold depth of 50 µm is thick enough to provide the benefits of 3D cell morphology and behavior, yet thin enough to allow microscopic imaging.

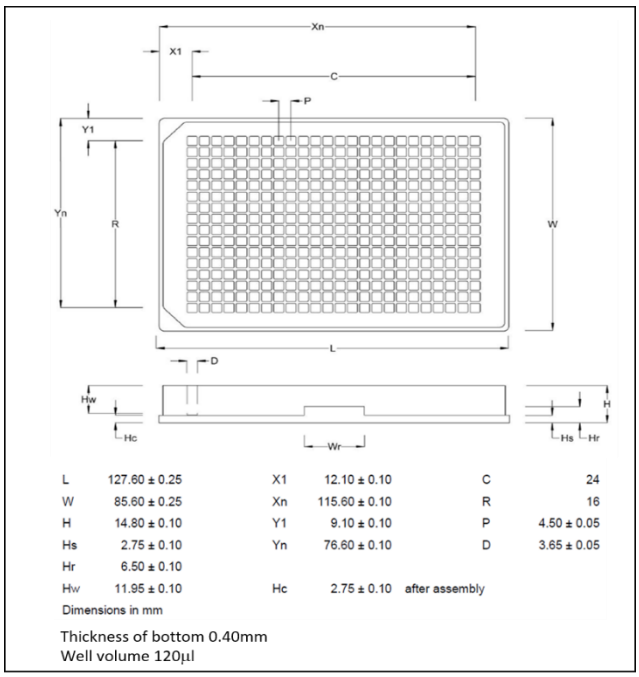
Scaffold Specifications:

- Material: medical-grade poly-L-lactide (PLLA)
- Orientation: Random, non-woven
- Scaffold thickness: 50 µm
- Fibre diameter: 4 µm (15-30 µm pores)
- Overall porosity: app. 80%
- Non-biodegradable in *in vitro* applications

Usage & Handling:

- True 3D environment rather than a roughened 2D surface
- Minimal protocol adaption to switch from 2D to 3D
- Compatible with fluorescence microscopy
- Protocols for cell seeding, retrieval, assays, and imaging are available

Plate specifications:



L	127.60 ± 0.25	X1	12.10 ± 0.10	C	24
W	85.60 ± 0.25	Xn	115.60 ± 0.10	R	16
H	14.80 ± 0.10	Y1	9.10 ± 0.10	P	4.50 ± 0.05
Hs	2.75 ± 0.10	Yn	76.60 ± 0.10	D	3.65 ± 0.05
Hr	6.50 ± 0.10				
Hw	11.95 ± 0.10	Hc	2.75 ± 0.10	after assembly	

Dimensions in mm

Thickness of bottom 0.40mm
Well volume 120µl

- Supplied with lid and individually-sealed
- Treated with gamma or e-beam irradiation
- Store at room temperature in the dark
- Manufactured in the United Kingdom

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MIMETIX
CELLS IN 3D

Mimetix® 384-well plate

Precondition

The Mimetix scaffold needs to be wetted with ethanol in order to allow a cell suspension to access the pores.

- Add 30 µL 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

These seeding densities are general guidelines only.

- Add 2,500 cells suspended in 30-60 µL cell culture medium.

Exchange medium

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

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