

Innovations in Electrophysiology

72-Well Plate 72W500/100F

72-Well Plate with Epoxy Base for Use with the Multiwell-MEA-System

Technical Specifications Base material Epoxy Isolator Ероху Track material Au (Gold) Contact pads Au (Gold) Electrode material Au (Gold) Diameter of the electrodes 100 µm Interelectrode distance 500 µm (from center to center) 4 + 1 reference Electrodes per well

Advantages

 Ideal for medium / high throughput recordings from cardiac and neuronal cell cultures.

- Comes with lid which can be kept in place during recording to enable repeated recordings under sterile condiditions.
- 1 circular ground electrode per well.
- Each electrode selectable for stimulation.
- ANSI/SLAS compliant well plate, compatible with traditional plate readers and liquid handling devices.

Applications

The 72 active well design provided on a 96-well plate format allows using the optimum of electrodes (4 instead of 3). Edge effects are avoided by filling rows A and H with buffer, however ignoring them from recording and analysis. The 72-well plate with epoxy base is perfect for primary, ES or iPS derived cells, for neurons and cardiomyocytes to work on toxicology and - with cardiomyocytes on toxicology and safety pharmacology research.

The gold electrodes with 100 μm diameter are ideally suited for recordings and stimulation. Every single electrode can be selected for stimulation.



Warning: Do not autoclave multiwell plates. Do not expose to temperatures over 60° C.

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Pin Layout of the 72-Well Plate with Epoxy Base for Use with the Multiwell-MEA-System



J1			J2			J3			J4		
Channel 1 A	A 2	A 3	A 4	A 5	<u>A6</u>		A 8	(A9)	A10	Cha A11	annel 144
B1	B 2	B 3	B4	B5	B6	B7	B8	B9	B10	B11	B12
(1)	\bigcirc	3	(4)	(5	6	\bigcirc		(3)	(1)	(1)	(1)
D1	02	03	04	05	06	D7	D8	09	010	011	012
E	E 2	EB	E4	E	E6	E7	E8	E 9	E10	EI	E 12
F1	F 2	F3	F 4	F5	F6	F7	F 8	F 9	F10	F1	E12
G1	G 2	G3	G 4	G 5	G6	G 7	68	G 9	610	(11)	G12
• H1 Channel 28	H2	НЗ	H4	HS	H6	H7	HB	H9	(11)	(11) Cha	(12) annel 145
B			J7			JG			J5		

Electrode ID per Well

Inside each well the numbering of MEA electrodes in the 2x2 grid follows the standard numbering scheme for square grids: The first digit is the column number and the second digit is the row number. These electrode IDs are displayed in the channel map of the Multiwell-Screen software. The internal ground reference surrounds the four recording electrodes.



Cleaning

Please rinse the well plate thoroughly with distilled water. Fill the wells with Terg-A-Zym for min. 12 hours at room temperature. Wash the wells twice for min. 30 minutes with distilled water again. Optional: Treat the well plate in a plasma cleaner before use.

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11 21 500 μm 12 22 100 μm