

72-Well Plate 72W500/100F

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

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 conditions.
- 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.

Technical Specifications

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

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.

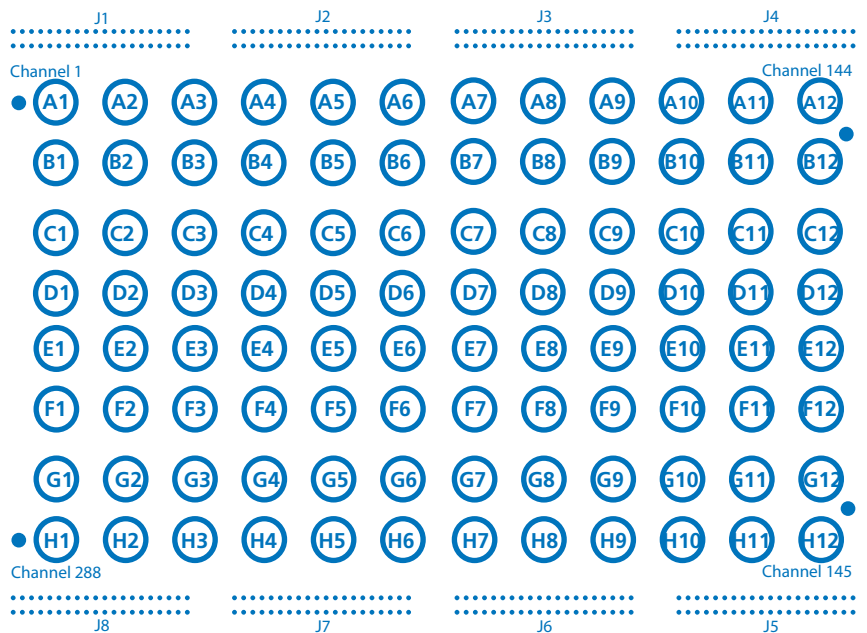
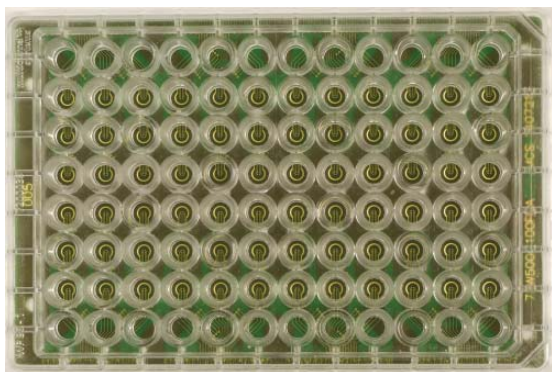
The gold electrodes with 100 µm diameter are ideally suited for recordings and stimulation. Every single electrode can be selected for stimulation.



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

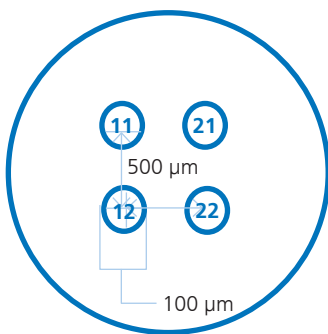
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Pin Layout of the 72-Well Plate with Epoxy Base for Use with the Multiwell-MEA-System



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.