

96-Well Plate 96W400/80F-1152

96-Well Plate with 1152 Electrodes and 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.
- 2 semicircular ground electrode per well.
- Each electrode selectable for stimulation.
- ANSI/SLAS compliant well plate, compatible with traditional plate readers and liquid handling devices.

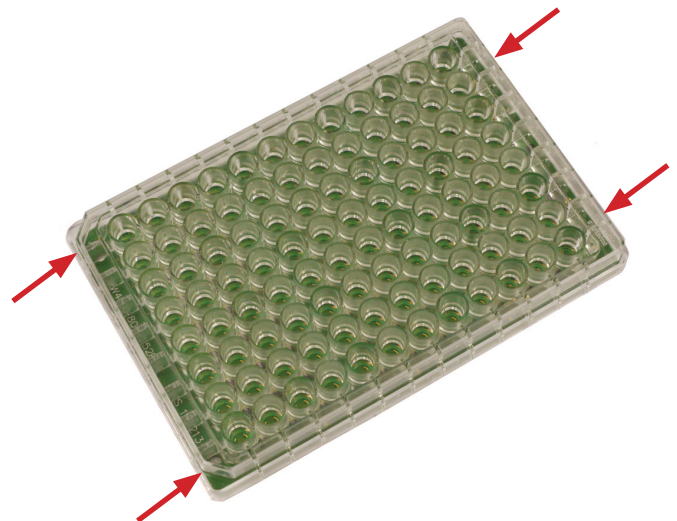
Base material	Epoxy
Isolator	Epoxy
Track material	Au (Gold)
Contact pads	Au (Gold)
Electrode material	Au (Gold)
Diameter of the electrodes	80 μ m
Interelectrode distance (center to center)	400 μ m
Electrodes per well	12 recording electrodes + 2 reference electrodes

Technical Specifications

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Applications

The 96-well design includes 12 electrodes and two semicircular ground electrode per well. The 96-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 80 μ m diameter are ideally suited for recordings and stimulation. Every single electrode can be selected for stimulation. The plates are sterilized by ethylene oxide.



Important: Well Plates are not symmetrical!

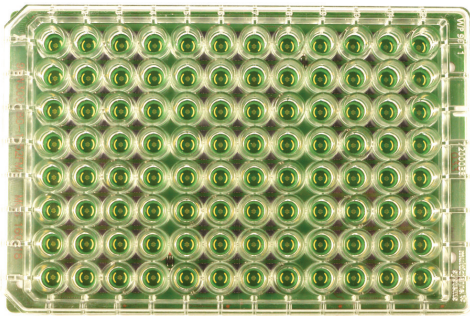
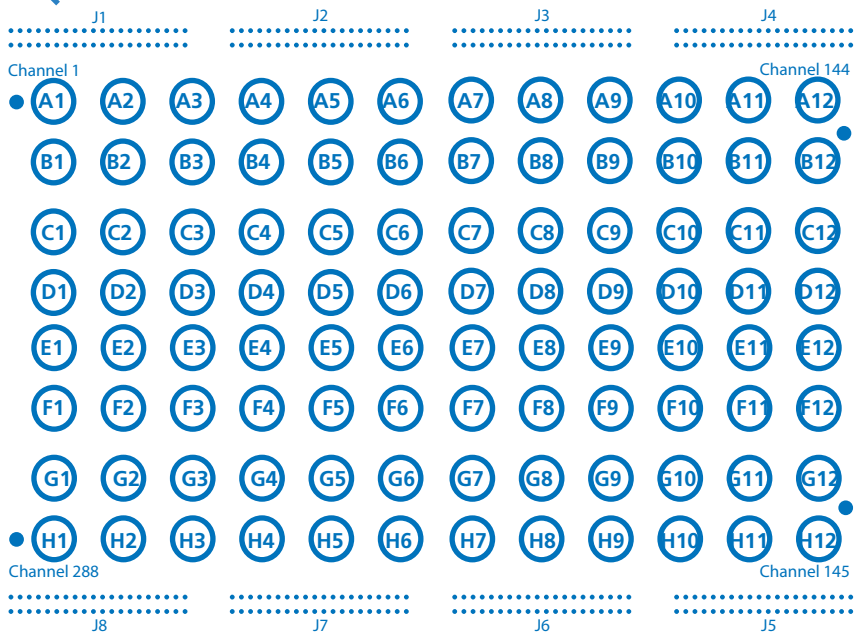
All types of well plates have two holes on each of the short sides on the bottom, one pair wider apart, one pair closer together. They fit on corresponding bolts on the Multiwell-MEA headstage. Only if the well plate sits on those bolts, and cannot be moved laterally, the brackets of the headstage close properly.

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Pin Layout

Dimensions of one Well

Height: 12.7 mm
 Diameter base: 5 mm
 Diameter opening: 7 mm
 Total volume: 0.36 ml



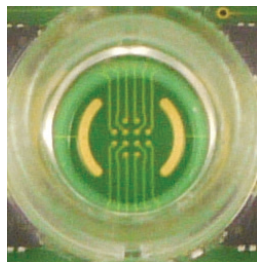
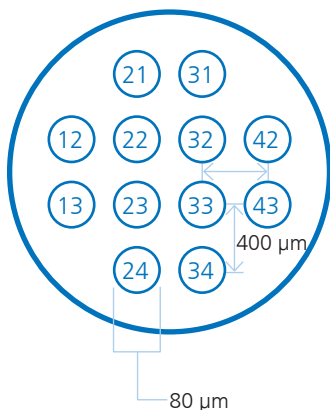
85.48 mm

127.76 mm

Height of the plate: 14.4 mm

Electrode ID per Well

Inside each well the numbering of MEA electrodes in the 4 x 4 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 two internal ground reference surround the twelve recording electrodes.



Cleaning and Sterilization

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. Please use alcohol or ultraviolet light for sterilization.

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