24-Well Plate
24W700/100F-288

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

Advantages
- Ideal for medium 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 (center to center): 700 µm
- Electrodes per well: 12 + 1 reference

Applications
The 24-well design includes an optimum of 12 electrodes and one circular ground electrode per well. The 24-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.

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 of the 24-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 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.

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.