96-Well Plate
96W700/100G-288

96-Well Plate with Glass 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.
• Well plate comes sterilized by gamma radiation, ready for use.

Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base material</td>
<td>Glass</td>
</tr>
<tr>
<td>Isolator</td>
<td>Glass</td>
</tr>
<tr>
<td>Track material</td>
<td>Au (Gold)</td>
</tr>
<tr>
<td>Contact pads</td>
<td>Au (Gold)</td>
</tr>
<tr>
<td>Electrode material</td>
<td>Au (Gold)</td>
</tr>
<tr>
<td>Diameter of the electrodes</td>
<td>100 µm</td>
</tr>
<tr>
<td>Interelectrode distance (center to center)</td>
<td>700 µm</td>
</tr>
<tr>
<td>Electrodes per well</td>
<td>3 + 1 reference</td>
</tr>
</tbody>
</table>

Applications

The 96-well design includes 3 electrodes and one circular ground electrode per well. The transparent bottom facilitates the optical monitoring of the network. The low-noise gold electrodes with 100 µm diameter are ideally suited for neuronal network recordings and stimulation. Every single electrode can be selected for stimulation. The 96-well plate is perfect for toxicity testing in neuronal cell cultures as well as neuropharmacology and recordings from iPS-cell derived neurons.

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 96-Well Plate with Glass Base
for Use with the Multiwell-MEA-System

Electrode ID per Well

Inside each well the numbering of MEA electrodes in the 1 + 2 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 three 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.
Do not apply alcohol longer than 1 hour to the wells.

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