Advantages

• Perfect combination of throughput and resolution for neuronal cultures.
• Comes with lid which can be kept in place during recording to enable repeated recordings under sterile conditions.
• 4 ground electrodes per well.
• Each electrode selectable for stimulation.
• ANSI / SLAS compliant well plate, compatible with traditional plate readers and liquid handling devices.
• Well plates come sterilized by gamma radiation, ready for use.

Technical Specifications

- **Base material**: Glass
- **Isolator**: SU-8 (Photoresist)
- **Track material**: Au (Gold)
- **Contact pads**: Au (Gold)
- **Electrode material**: Au coated with PEDOT (poly 3,4-ethylene-dioxythiophene)
- **Diameter of the electrodes**: 30 µm
- **Interelectrode distance (center to center)**: 300 µm
- **Electrodes per well**: 12 + 4 reference
- **Area of each well bottom**: 32 mm²

Note

The period of shelf-life for multiwell plates is six month from the date of delivery. We generally recommend to always use new multiwell plates for your recordings. However, repeated use is possible when paying attention to the cleaning and sterilization procedures. The number of cycles depends on the experimental design. Repeated use of multiwell plates is on customer’s own risk.

Important

- Do not autoclave well plates.
- Do not clean wells mechanically.
- Do not expose to temperatures over 40 °C.
- Do not apply alcohol longer than 30 minutes to the wells.

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.

Sterilized!

Height of the plate: 19 mm

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Product information is subject to change without notice.
**24-Well Plate**

24W300/30G-288

**Pin Layout of the 24-Well Plate with Glass Base for Use with the Multiwell-MEA-System**

**Dimensions of one Well**

- Height: 17.3 mm
- Diameter base: 6.4 mm
- Diameter opening: 16 mm
- Total volume: 2.43 ml

**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.

**Use of Multiwell Plates**

**Pretreatment** to increase the hydrophilicity: Fill dry wells with PBS and place the well plate at 30 °C on a heating plate for at least five hours before using. Close lid to avoid drying out. Alternatively treat the well plates in a plasma cleaner.

**Cleaning** (on user’s risk):

- **Enzol**: Rinse the multiwell plate with distilled water and fill wells with 7 % Enzol solution afterwards, wait 12 hours at room temperature before washing the wells (2 x 30 min) with distilled water.
- **Ethanol**: Fill the wells with 70 % Ethanol for at least 20 minutes, keep the lid closed. Then rinse the wells three times with distilled water, dry overnight.

**Sterilization**: Please use ultraviolet light as well as alcohol for sterilization.

**Storage**: Please store used well plates cleaned, at room temperature and in a dark and dust free place.