

MEA60 4Wells

Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

Characteristics

Substrate dimension: 21 mm x 21 mm x 0.7 mm
Substrate material: float glass
Insulation material: SU-8 epoxy, thickness 5 μm
Number of electrodes: 72 (60 recording electrodes, 8 stimulation electrodes, 4 GND electrodes)

Electrode material: platinum
Electrode geometry: planar
Electrode layout: 4x4 matrix without 1 corner electrode

Electrodes dimension: \varnothing 40 μm
Electrode spacing: 200 μm centre to centre
Impedance @ 1 kHz: 500-700 k Ω , stimulation electrodes 20-30 k Ω , GND 500 Ω

Noise level: 20-25 μV
Re-use: several times depending on type and duration of cultures.

Required accessories: MEA60 Spa-Y2 and MEA1060-Y1 or MEA1060-Y2 depending on MEA1060 amplifier from Multi Channel Systems MCS GmbH

Applications

Dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)

