MicroElectrodeDevices

MEA60 Biochips

Product Catalog

MicroElectrodeDevices
Ch. de Champ Petau 2
CH-1053 Bretigny
Switzerland

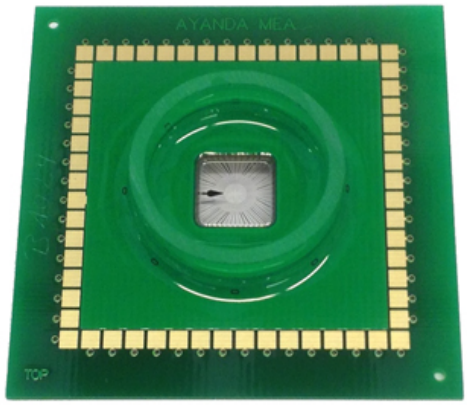
info@microelectrodedevices.com
www.microelectrodedevices.com

MicroElectrodeDevices

MEA60-100-30-3D

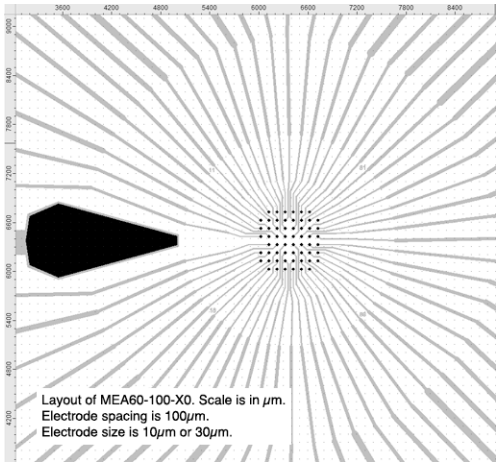
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



Characteristics

Substrate dimension:	12mm x 12mm x 0.6mm
Substrate material:	Glass
Electrode material:	Platinum
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	3D tip-shaped
Electrode height:	25-40μm
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø30μm
Interelectrode distance:	100μm (centre to centre)
Impedance (@1kHz):	500-800kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

Acute slice preparations and organotypic slice cultures (brain tissue, spinal cord, retina, etc.)

Product information is subject to change without notice

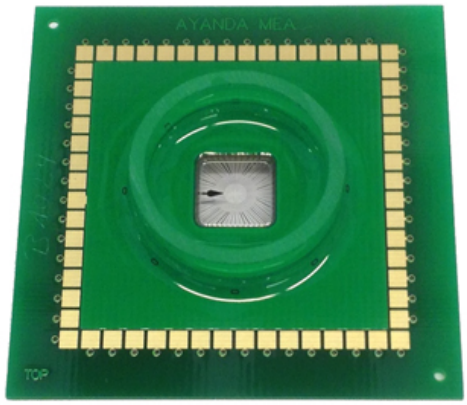
MicroElectrodeDevices, Ch. de Champ Petau 2, CH-1053 Bretigny, Switzerland
Email: info@microelectrodedevices.com, Internet: www.microelectrodedevices.com

MicroElectrodeDevices

MEA60-200-30-3D

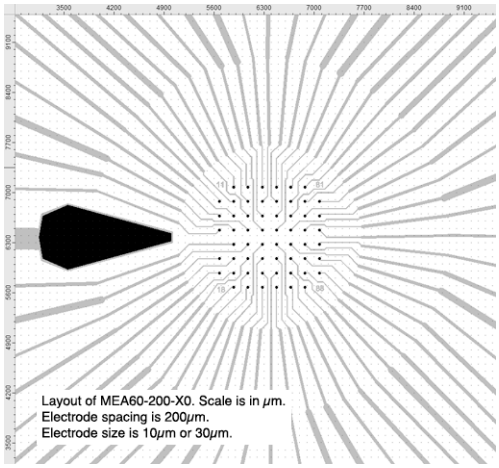
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



Characteristics

Substrate dimension:	12mm x 12mm x 0.5mm
Substrate material:	Glass
Electrode material:	Platinum
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	3D tip-shaped
Electrode height:	50-70μm
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø30μm
Interelectrode distance:	200μm (centre to centre)
Impedance (@1kHz):	450-650kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

Acute slice preparations and organotypic slice cultures (brain tissue, spinal cord, retina, etc.)

Product information is subject to change without notice

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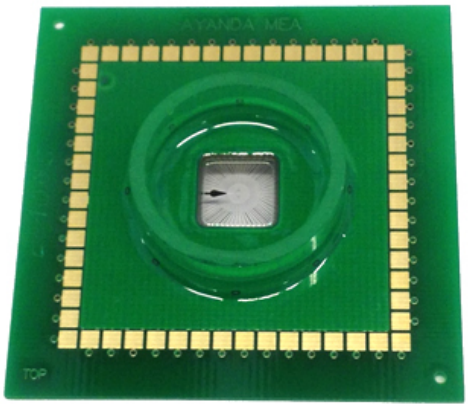
MicroElectrodeDevices

MEA60-100-10-PtBlack

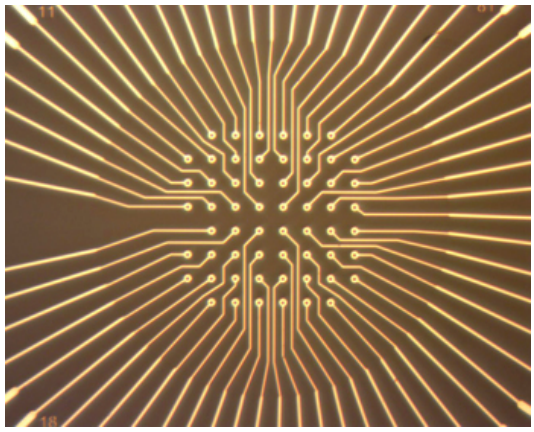
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



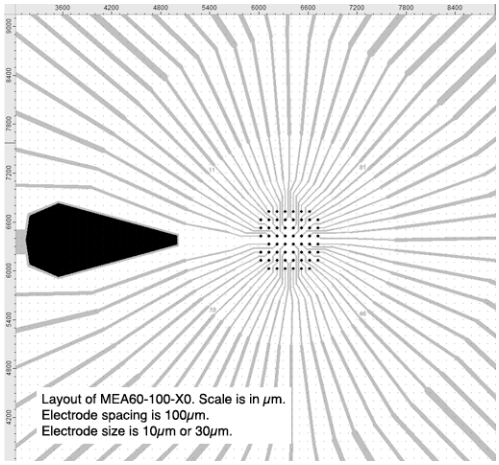
Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum black
Insulation material:	SU-8 epoxy, thickness 5µm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø10µm
Interelectrode distance:	100µm (centre to centre)
Impedance (@1kHz):	150-200kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

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



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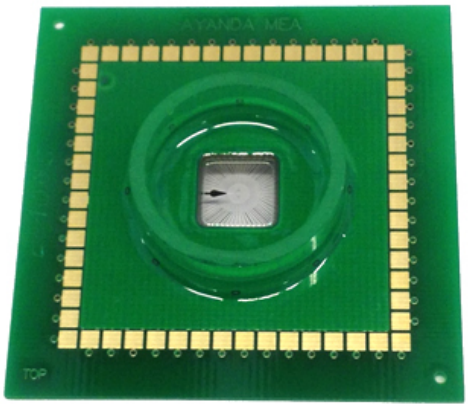
MicroElectrodeDevices

MEA60-100-30-Pt

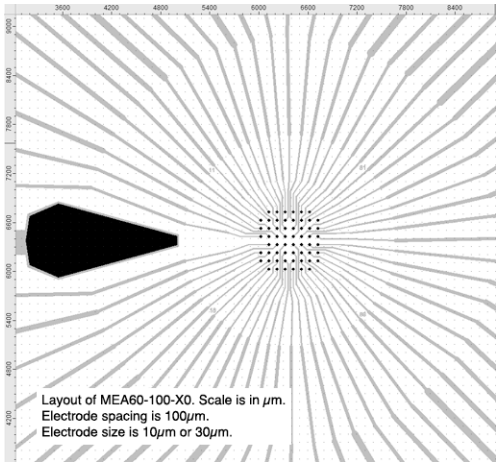
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø30μm
Interelectrode distance:	100μm (centre to centre)
Impedance (@1kHz):	800-1100kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

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

Product information is subject to change without notice

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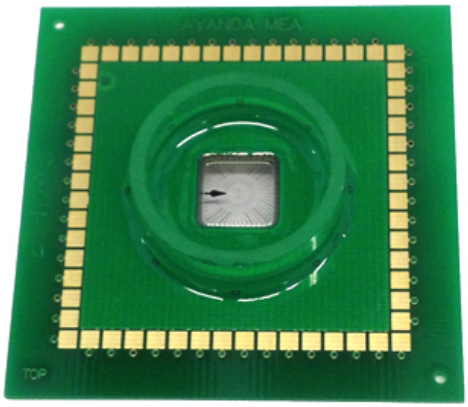
MicroElectrodeDevices

MEA60-100-30-PtBlack

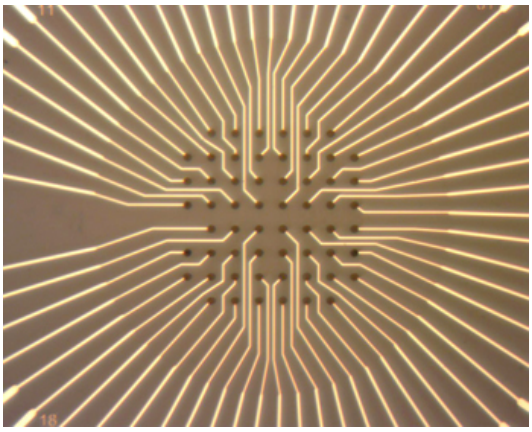
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



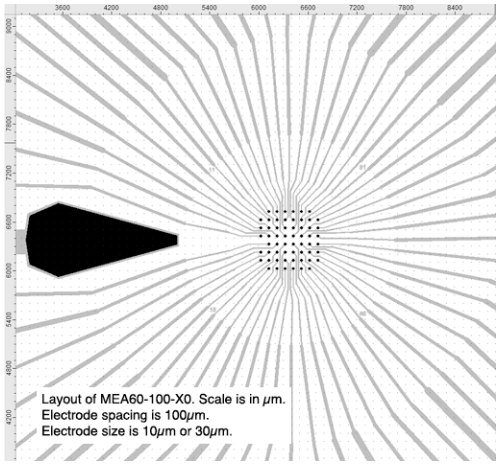
Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum black
Insulation material:	SU-8 epoxy, thickness 5µm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø30µm
Interelectrode distance:	100µm (centre to centre)
Impedance (@1kHz):	20-30kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

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



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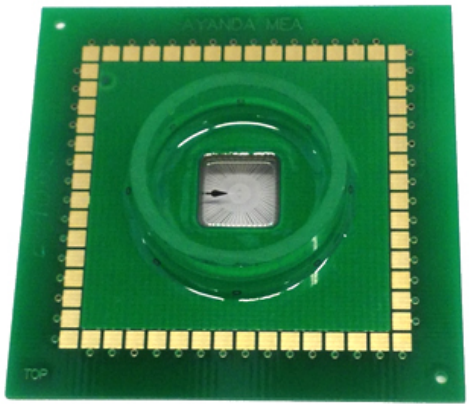
MicroElectrodeDevices

MEA60-200-10-PtBlack

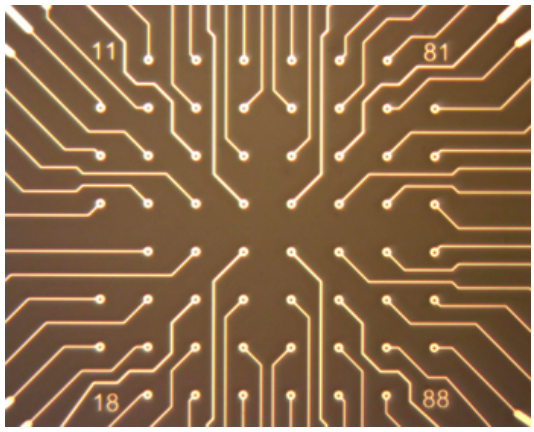
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



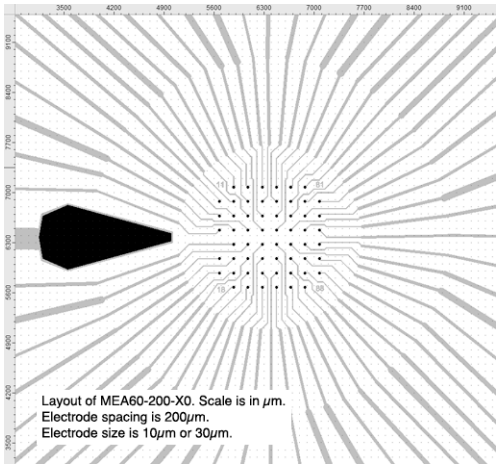
Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum black
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø10μm
Interelectrode distance:	200μm (centre to centre)
Impedance (@1kHz):	150-200kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

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



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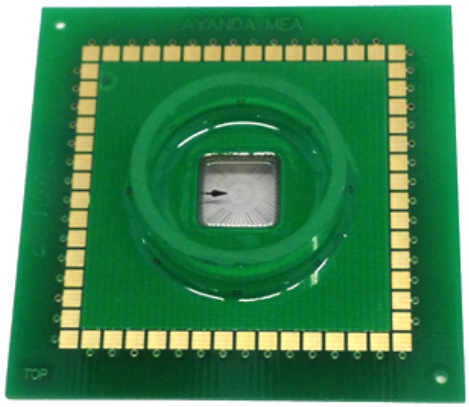
MicroElectrodeDevices

MEA60-200-30-Pt

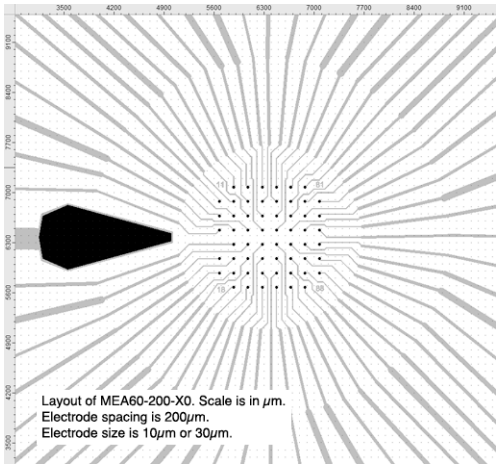
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø30μm
Interelectrode distance:	200μm (centre to centre)
Impedance (@1kHz):	800-1100kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

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

Product information is subject to change without notice

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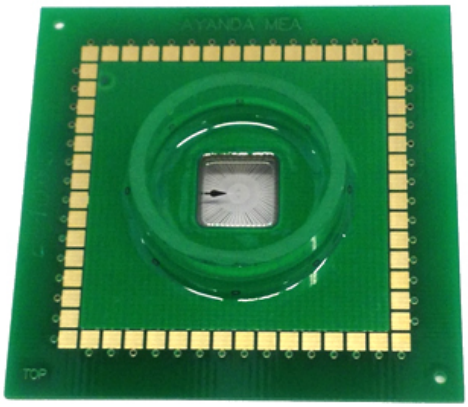
MicroElectrodeDevices

MEA60-200-30-PtBlack

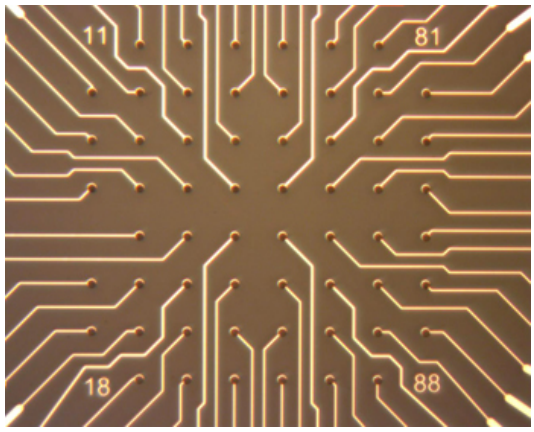
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



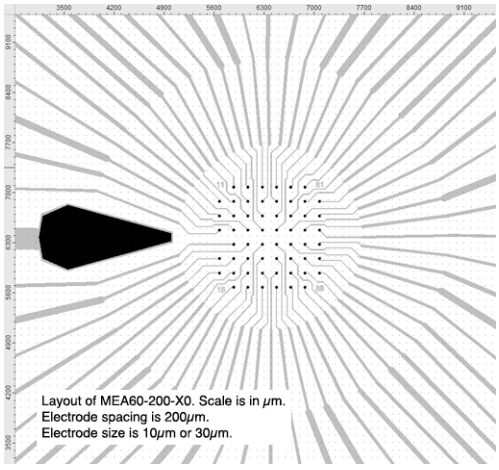
Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum black
Insulation material:	SU-8 epoxy, thickness 5µm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø30µm
Interelectrode distance:	200µm (centre to centre)
Impedance (@1kHz):	20-30kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Applications

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



Product information is subject to change without notice

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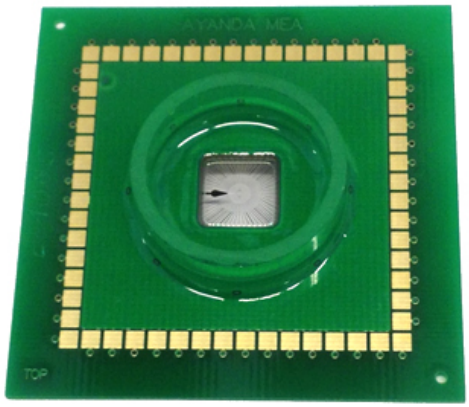
MicroElectrodeDevices

MEA60-200-50-ITO

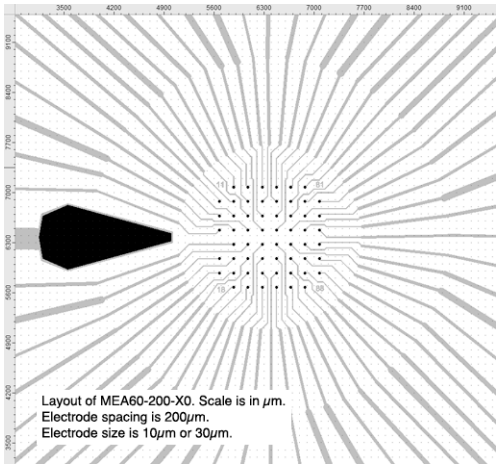
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



Characteristics

Substrate dimension:	12mm x 12mm x 0.7mm
Substrate material:	Glass
Electrode material:	Indium-tin oxide (ITO)
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	59
Reference electrode:	One internal reference (N°15)
Electrode layout:	8x8 matrix
Electrodes dimension:	Ø50μm
Interelectrode distance:	200μm (centre to centre)
Impedance (@1kHz):	900-1200kΩ
Culture chamber:	Glass ring External Ø24mm, height 6mm
Required accessory:	MEA60-Spacer



Layout of MEA60-200-X0. Scale is in μm.
Electrode spacing is 200μm.
Electrode size is 10μm or 30μm.

Applications

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

Product information is subject to change without notice

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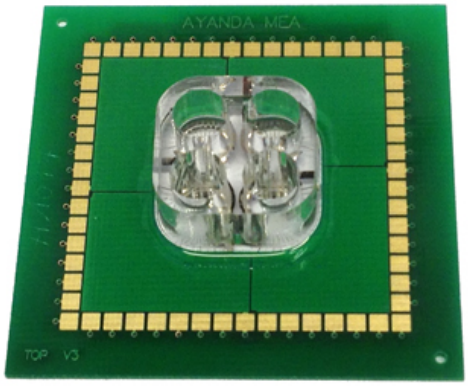
MicroElectrodeDevices

MEA60-4Well-Pt

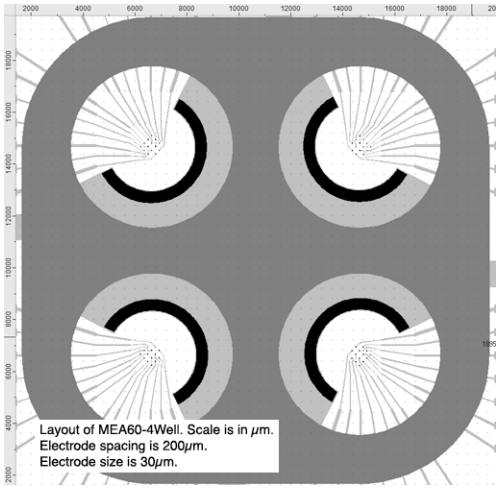
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



Characteristics

Substrate dimension:	21mm x 21mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	56 (14 in each well)
Reference electrode:	One internal reference per well; electrodes N°15, 42, 57, 84
Electrode layout:	4x4 matrix in each well
Electrodes dimension:	Ø30μm
Interelectrode distance:	200μm (centre to centre)
Impedance (@1kHz):	800-1100kΩ
Culture chamber:	Plexiglass chambers well Ø6mm, height 8mm
Required accessory:	MEA60-Spacer



Applications

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

Product information is subject to change without notice

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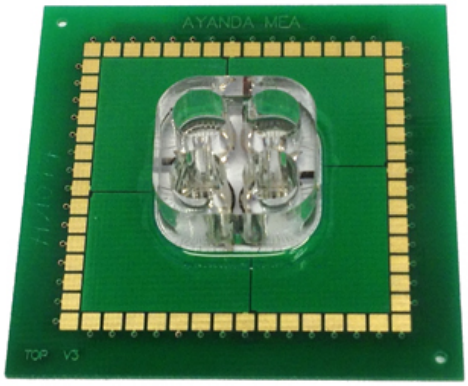
MicroElectrodeDevices

MEA60-4Well-PtBlack

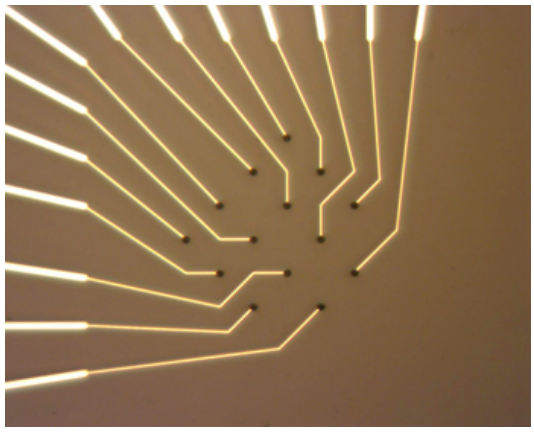
Product type

Micro-Electrode Array Biochip compatible with the data acquisition systems from Multi Channel Systems MCS GmbH, Reutlingen, Germany.



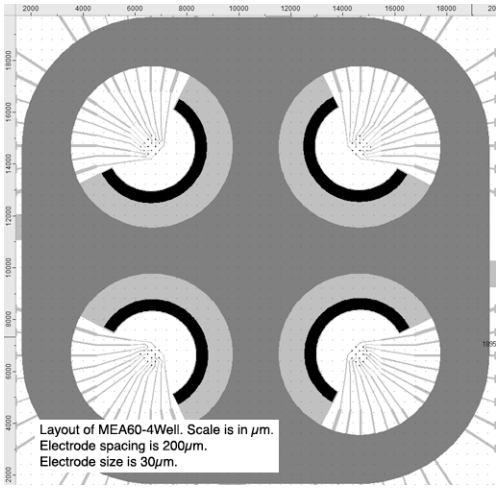
Characteristics

Substrate dimension:	21mm x 21mm x 0.7mm
Substrate material:	Glass
Electrode material:	Platinum black
Insulation material:	SU-8 epoxy, thickness 5μm
Working Temperature:	10°C - 70°C
Electrode geometry:	Planar
Recording electrodes:	56 (14 in each well)
Reference electrode:	One internal reference per well; electrodes N°15, 42, 57, 84
Electrode layout:	4x4 matrix in each well
Electrodes dimension:	Ø30μm
Interelectrode distance:	200μm (centre to centre)
Impedance (@1kHz):	20-30kΩ
Culture chamber:	Plexiglass chambers well Ø6mm, height 8mm
Required accessory:	MEA60-Spacer



Applications

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



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