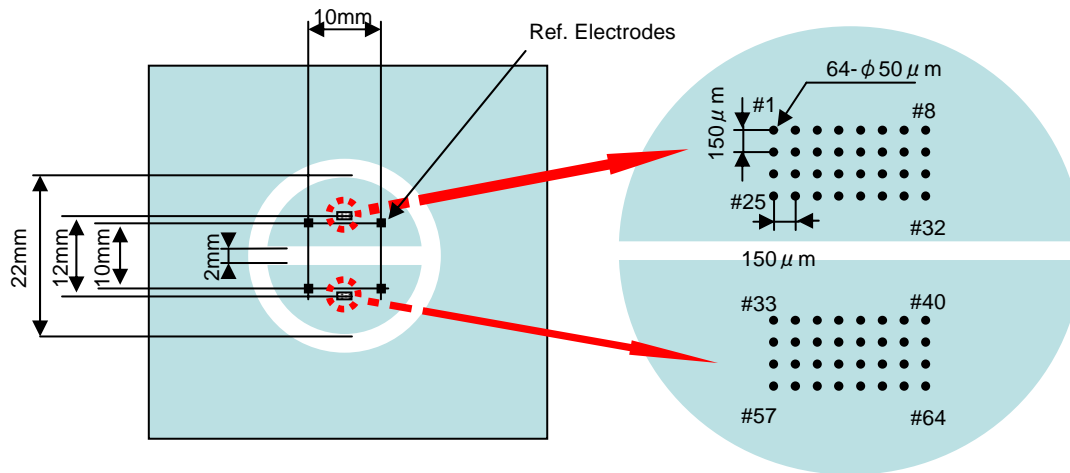


New Probe

Dual-Chamber Probe

<MED-P5D15A, MED-P5D15B>

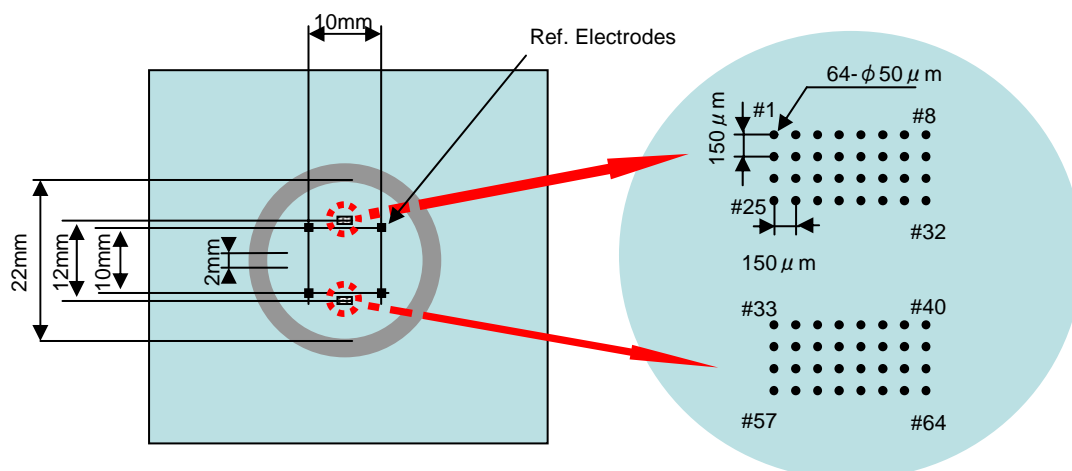
- *The 64 electrodes are patterned in two separate chambers divided by a partition placed in the center of the ring. (32 electrodes are patterned in each chamber.)
- *It allows you to record from 2 cultures simultaneously using one MED probe and will speed up your experiment.
- * The probe is available in two types of partition-height. (5 mm, 10 mm)



2- 4x8 Array Probe

<MED-P50035, MED-P5003A>

- * The 64 electrodes are patterned in two blocks (32 electrodes, each).
- * It allows you to record from separate areas in a slice.



Specification

Substrate

Glass substrate: 50 x 50 x 0.7 mm
 Cylindrical chamber: ABS, OD:25mm, ID:22 mm (MED-P5D###)
 Glass, OD:25 mm, ID:22 mm (MED-5003#)
 Partition: ABS, Thickness: 2 mm, Height: 10 mm(MED-P5D15A), 5 mm (MED-P5D15B)
 None (MED-P5003#)
 Conducting layer: Indium tin oxide (ITO) (0.15 μ m)
 Insulation layer: Polyacrylamide (1.4 μ m)
 Size: 50 x 50 x 5.7 mm (MED-P50035)
 50 x 50 x 10.7 mm (MED-P5D15#, MED-P5003A)

Recording/Stimulating Electrode

Number of electrodes: 64
 Material: ITO + Pt Black
 Electrode size: ϕ 50 μ m
 Impedance: <22 k Ω (1kHz, 50mV applied sinusoidal wave)
 Maximum voltage: 1V
 Maximum current: 200 μ A, 0.1 msec

Reference Electrodes

Number of electrodes: 4
 Material: ITO + PtBlack
 Size: ϕ 100 μ m x 4
 Impedance: <2.2 k Ω (1kHz, 50 mV applied sinusoidal wave)

Product Number	Pattern	Inter-polar distance (The smallest)	Distance between electrode block	Chamber Depth	Partition- height
MED-P5D15A	2-(4x8)	150 μ m	12 mm	10mm	10mm
MED-P5D15B	2-(4x8)	150 μ m	12mm	10mm	5mm
MED-P50035	2-(4x8)	150 μ m	12mm	5mm	None
MED-P5003A	2-(4x8)	150 μ m	12mm	10mm	None

* The system may not apply to all types of experiment in this field. Ask us for your specific requirements.



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MED64 system Product information:
www.med64.com

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