

Meander Fusion Chamber

TECHNICAL SPECIFICATIONS
MODEL 454



The BTX Meander Fusion Chamber is a microslide with a novel design specifically used for electro cell fusion. This chamber is constructed of a conductive metal alloy which has been deposited in a finger-like projection array on a glass microscope slide. This method of manufacturing creates a highly precise working area. The configuration is designed to give direct viewing of a surface area. This can be used for viewing dimer formation during alignment while under a microscope. The gaps are set at 0.2mm.

The Electroporation Experts

BTX[®]

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APPLICATIONS

The Meander Fusion Chamber generates a inhomogenous field and is used for cell fusion of microorganisms, plant, fungi, yeast and mammalian cells. It is compatible with most BTX pulse generators. Cao¹ used the Meander Fusion Chamber to generate quadromas secreting bifunctional antibodies. He found this method both rapid and economical to produce several quadromas in a short time.

TECHNICAL SPECIFICATIONS

Standard Capabilities *Depending on buffer composition and generator capability

Voltage Range:	0 - 480 Vdc 0 - 16 Vac
Frequency:	1 MHz
Pulse Length/Time Constants Range:	1 μ sec - 99 msec
Pulse Number Range:	1-99 (depending on voltage)
Operating Temperature:	5° - 40° C
Intended Use:	Indoor Use
Relative Humidity:	20-80%
Maximum Altitude:	2000m (6562 ft)
Pollution Degree:	II
Insulation Category:	CAT I

Physical Characteristics

Gap size:	0.2 mm
Electrode Material:	Silver
Field Type:	Inhomogeneous

Compatibility

Generators:	ECM® 630, 830, 2001, 200, 600, & T820.
Monitoring:	Enhancer 400 recommended

ORDERING INFORMATION

Model	Description	Part Number
454	Meander Fusion Chamber, pkg. of 4	01-000098-01
465	Square-post Micrograbber Cable	06-700044-01
5343	Coaxial-Banana Connection Cable	06-700042-01
4001	Enhancer 400 w/ Computer & Printer	01-001483-01

REFERENCE

1. Cao et al., A rapid non-selective method to generate quadromas by microelectrofusion, Journal of Immunological Methods, 187: 1-7 (1995). BTX Reference ID#3194.