Meander Fusion Chamber

Novel microslide for electro cell fusion

The BTX Meander Fusion Chamber is a novel microslide design which is specifically used for electro cell fusion. It generates a divergent field and is used for fusion of mammalian cells, plant, yeast, fungi and microorganisms. It allows direct viewing of dimer formation during alignment.

This specialty electrode is constructed of a conductive metal alloy. It has two primary bars that are connected by many tiny fingerlike projections. These projections are spaced 0.2 mm apart. This electrode is mounted on a glass slide. It is designed for direct viewing of dimer formation during alignment while under a microscope Konidaris et al. (2003) used the Meander Fusion chamber to generate Glutamic Acid Decarboxylase-specific monoclonal antibodies for studying the role autoantigens involved in type 1 diabetes mellitus. (Konidaris C, et al. No Specific Reactivity to E. coli Glutamic Acid Decarboxylase from Sera of Newly-Diagnosed Insulin Dependent Diabetic Patients. International journal of immunopathology and pharmacology. 2003; 16(2): 129-138.)

Specifications

Generator Compatibility	ECM 2001+, ECM 830, Gemini X2
Field Type	Divergent
Max Voltage:	
AC	16 V (0 to peak)
DC	0 to 480 V
Pulse Length	1 µs to 99 ms
Number of Pulses	1 to 99 (depending on voltage)
Gap Size	0.2 mm
Autoclavable	No

Ordering Information

Item #	Description
45-0107	Meander Fusion Chamber, 0.2 mm Gap, pkg. of 4
Required for connection to ECM 830 and Gemini X2	
45-0216	Micrograbber to Banana Plug Connection Cables, 10 ft
Required for connection to ECM 2001+	
45-0087	Micrograbber Adapters, Red and Black

Glass Microslides

Easily fit on a microscope stage

BTX Microslides are used for cell fusion, plant protplast fusion and embryo manipulation applications. They are available in four gap sizes, 0.5, 1.0, 3.2 and 10 mm. The 0.5 and 1.0 mm microslides produce a divergent field of energy ideal for efficient embryo fusion. The 3.2 and 10 mm slides provide a homogenous field for high fusion rates of hybridoma cells. The Microslides allow easy observation of the alignment of cells during electrofusion.

The Microslides are composed of a glass slide and two strips of stainless steel (wire or bar) set in a plastic Petri dish.

Specifications

Generator Compatibility	ECM 2001+, Gemini X2, ECM 830
Field Type	
45-0103 and 45-0104	Divergent
45-0105 and 45-0104	Homogeneous
Max Voltage	500 V
Autoclavable	No

Ordering Information

Item #	Description
45-0103	Microslide 0.5 mm Gap, 20 µl, pkg. of 10 (Model 450)
45-0104	Microslide 1.0 mm Gap, 20 µl, pkg. of 10 (Model 450-1)
45-0105	Microslide 3.2 mm Gap, 20 µl, pkg. of 1(Model 453)
45-0106	Microslide 10 mm Gap, 20 µl, pkg. of 1 (Model 453-10)
45-0216	Connection Cable, Micrograbber to Banana Plug Cable
Required for connection to ECM 830 and Gemini X2	
45-0216	Micrograbber to Banana Plug Connection Cables, 10 ft
Required for connection to ECM 2001+	
45-0087	Micrograbber Adapters, Red and Black