

Cell MicroControls Norfolk, VA 23509 Tel: (757) 622-0261 Fax: (757) 622-0262 WWW: http://www.cellmc.com; Email: info@cellmc.com Equipment for cellular & electrophysiology research

size central chamber:

37° bevel

groove

12.7mm dia; 1mm lower level; 5mm height;

outflow chamber, ground & thermistor

compatible with 12mm harp (Warner

angles, 12mm cover slides

constructed of polycarbonate

Instruments, Inc SHD-26/xx)

compatible with HI-24p,HI-25Dp

BT-1xxxSY/LN/Sci Brain slice chambers

The **BT-1xxxSY** brain slice chambers fit into the Siskiyou Inc. 8090C stage as well as our MSAS-xxx Stage adapters. Some are also available for the Luigs & Neumann (LN) stage and Scientifica (Sci) stages. These slice chambers all have inflow and outflow via a slit to promote laminar flow for flow rates up to 2ml/min (4ml/min for larger chambers). They come either with a smooth top or with a machined recess allowing electrode access at low angles.

Typically a transparent ITO heater (eg. **HI-25Dp**) will be used to directly heat the chamber from below. Perfusing solution is heated with the HPRE2 Pre-heater connected to the inlet tube. Chambers have a thermistor groove to allow permanent placement of the thermistor sensor for measurement/control of the chamber temperature. Ground wires can either be placed in the outflow area or in the main working area to the side of the slice.

Superior flow pattern

Turbulence in solution flowing through chambers can create regions with non-uniform drug concentrations. Our chamber designs demonstrate a predictable laminar flow pattern as in the example below.



Fig 1. shows dye containing solution flowing into BT112B-45SY fitted with a Warner Instruments, Inc 12mm harp (eg. SHD26H/10). Typical laminar flow pattern for solution front.

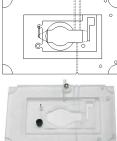
Customization

Please call with any questions about modifying the chambers. We can for example vary the angle of the bevelled area to suit your lens or for example adapt a chamber for use with another microscope

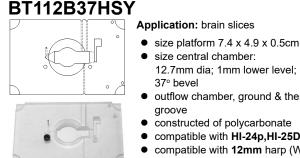


stage (see Fig. 2). With our advanced Fig 2. BT-1-TB CAD/CAM software we have designed chamber adapted many chambers and can usually modify to Luigs & Neumann stage. current chambers at no extra cost.

BT112B45/SY/Sci/LN



- Application: brain slices-low electrode angles
- size platform 7.4 x 4.9 x 0.5cm size central chamber:
- 12.7mm dia; 1mm lower level; 3.2mm height; 42° bevel
- outflow chamber, ground & thermistor groove
- constructed of polycarbonate
- compatible with HI-24p, HI-25Dp
- compatible with 12mm harp (Warner Instruments, Inc SHD-26/xx)



BT113B45/SY/Sci/LN

Application: brain slices-low electrode • size platform 7.4 x 4.9 x 0.5cm size central chamber: 14.3mm diam; 1mm bottom height; 3.2mm height: 45° bevel outflow chamber, ground & thermistor groove constructed of polycarbonate

BT113B45HSY

Application: brain slices-12mm cover slides

compatible with HI-24p,HI-25Dp

- size platform 7.4 x 4.9 x 0.5cm
- size central chamber: 14.3mm diam; 5mm height; 45° bevel
- outflow chamber, ground & thermistor groove
- constructed of polycarbonate
- compatible with HI-24p, HI-25Dp

BT115B45/SY/Sci/LN

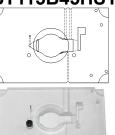
- Application: brain slices-low electrode angles,
 - size platform 7.4 x 4.9 x 0.5cm
- size central chamber:
- 15.2mm diam; 3.2mm height; 45° bevel outflow chamber, ground & thermistor groove
- constructed of polycarbonate
- compatible with HI-24p, HI-25Dp
- compatible with **15mm** harp (Warner Instruments, Inc SHD-26G/xx)

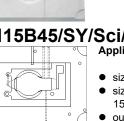
Application: brain slices

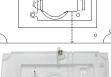
- size platform 7.4 x 4.9 x 0.5cm
- size central chamber: • 15.2mm diam; 5mm height; 45° bevel
- outflow chamber, ground & thermistor groove
- constructed of polycarbonate
- compatible with HI-24p,HI-25Dp
- compatible with 15mm harp (Warner Instruments, Inc SHD-26G/xx)











BT115B45HSY



