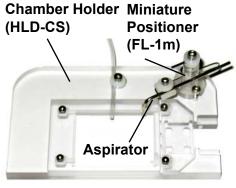
Cell MicroControls Norfolk, VA 23509 Tel: (757) 622-0261 Fax: (757) 622-0262 WWW: http://www.cellmc.com;

Culture chamber system

WWW: http://www.cellmc.com; Email: info@cellmc.com

Equipment for cellular & electrophysiology research





Chamber (BT-CS) Stim/therm assy (STIM-AT)





- Low cost reusable culture/stim chamber (BT-CS)
 -small volume, laminar flow, inflow/outflow port, #1 glass bottom
- Stimulation/thermistor assy (STIM-AT) presses into place-no tools required
- Holder (HLD-CS) for chamber, aspirator
- Microscope stage adapters (MSA-NIK, MSA-TS100, MSA-OL11, MSA-LEI/DM, MSA-MZ etc.) for all popular microscopes
- BT-CS fits lonoptix Corp C-Dish for stimulation during culture

DESCRIPTION

The **Culture Chamber system** uses a **low cost** but complete cell perfusion chamber (**BT-CS**) for holding cells or small pieces of tissue and then transferring them to a microscopy or electrophysiology setup. The **BT-CS** has an inflow tube and area for aspirating solution and has laminar flow over a range of flow rates. The **Stimulation/thermistor assy** (**STIM-AT**) presses into the **Chamber holder** (**HLD-CS**). The unique design of the stimulation electodes is such that they clip into a small recess cut along the front and rear lower edges of the chamber. They can be rebent to their original shape if they are accidentally damaged. The aspirator is postioned with the **FL-1m Miniature postioner** attached to the **HLD-CS**.

In a typical setup with temperature control the **HPRE2 Pre-heater** is used for heating the chamber. perfusate The **MPRE8** 8 channel pre-heater can be used to superfuse a region of the chamber. These can both be controlled by the **TC2BIP Temperature Controller** for electrophysiology or **mTCII micro-Temperature Controller** for microscopy. If the **TC2BIP** is equiped with the third channel (**TC2-Ch3**) the temperature in the chamber can be monitored with the thermistor built into the **Stimulation/thermistor assy**.

The **Chamber holder** fits into the **Microscope stage adapter**. These are available for most popular microsopes (see our website for further information).

Specifications

BT-CS: Central chamber-volume 0.3ml

- 13x12mm
- aspiration port matches male Luer for priming
- supplied with #1 cover slide attached
- polycarbonate (autoclavable)

STIM-AT: Platinum Iridium stimulation wires, snaps into HLD-CS

HLD-CS: Holds BT-CS, STIM-AT and FL-1m. Fits into MSA-XXX stage adapters



Cell MicroControls Norfolk, VA 23509

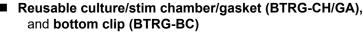
Tel: (757) 622-0261 Fax: (757) 622-0262

WWW: http://www.cellmc.com; Email: info@cellmc.com

Equipment for cellular & electrophysiology research

Culture chamber system Replaceable glass

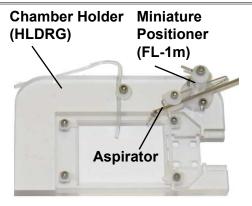




- -small volume, laminar flow (to 2ml/min), inflow/outflow port, accommodates #1 or #1 1/2 glass or plastic cover slide bottoms
- Stimulation assy (STIM-AT) presses into placeno tools

DESCRIPTION

The **Culture Chamber system-RG** uses a **low cost** but complete cell perfusion chamber (**BTRG-CH/GA/BC**) for either culturing cells in or using cells grown on a 24x30mm #1 or #1 1/2 glass or plastic cover side. The chamber is then transferred to a microscopy or electrophysiology setup. The **BTRG** has an inflow tube and separate port for





Chamber & gasket

Bottom clip







Cover slide

assy (STIM-AT) presses into the **Chamber holder** (HLDRG). The unique design of the stimulation electrodes is such that they clip into a small recess cut along the front and rear lower edges of the chamber. They can be rebent to their original shape if they are accidentally damaged. The aspirator is postioned with the **FL-1m Miniature postioner** which is attached to the **HLDRG**.

In a typical setup with temperature control the **HPRE2 Pre-heater** is used for heating the chamber. perfusate The **MPRE8 8 channel pre-heater** can be used to superfuse a region of the chamber. These can both be controlled by the **TC2BIP Temperature Controller** for electrophysiology or **mTCII/mTC3 micro-Temperature Controller** for microscopy. If the **TC2BIP** is equiped with the third channel (**TC2-Ch3**) the temperature in the chamber can be monitored with the thermistor built into the **Stimulation/thermistor assy**.

The **Chamber holder** fits into the **Microscope stage adapter**. These are available for most microscopes but if we don't already have one we will make one for you at the same cost as a standard one.

Specifications

BTRG-CH: Central chamber-volume 0.3ml

- 13x12mm
- aspiration port matches male Luer for priming
- polycarbonate (autoclavable)

BTRG-GB: Silicon gasket (self adhesive) attached to BTRG-CH

BTRG-BC: Polycarbonate bottom clip (autoclavable)

STIM-AT: Platinum Iridium stimulation wires, snaps into HLDRG

HLDRG:HLDRG2 Holds BTRG-CH/GA/BC, STIM-AT and FL-1m. Fits into MSA-XXX stage adapters.

HLDRG2 has extra connection for a Ag/AgCl ground wire or pellet.

Cover slides: #1 plastic or glass