

## **Brain Slice Keeper**

# BSK5

### **Pre-Incubation of Slice Preparations in Interface Mode**

The BSK5 Brain Slice Keeper has been designed to pre-incubate a large number of brain slices prior to transfer into recording chambers. Based on the BSK4, it consists of two (BSK5-2) or four (BSK5-4) closely fitting acrylic rings, located in a half cylinder manifold. The close fitting rings allow a removable sheet of nylon netting to be wedged and held in place. In this slice keeper, the slices are maintained at an interface between the incubation medium and a humidified, high oxygen atmosphere within the holding vessel. Furthermore the slices can be maintained on a flat porous membrane attached to the nylon netting in order to maintain the underside of slices perfectly flat for subsequent experiments utilizing microscope techniques.

#### **FEATURES**

- Slices maintained for many hours at an interface with incubating media
- Four separate rings allow separation of different types of preparations
- Slices supported on a quick change nylon net with optional attached porous membrane
- Modular design simple to set up and maintain

operation, the manifolds carrying two rings each are located in the base of the holding vessel and are partially immersed with ACSF by filling to the level of the netting. The purposedesigned holding vessel is supplied with a 95% O2, 5% CO2 gas mixture via a ceramic bubbler. The ceramic bubbler is located to the side or in a central space between the two manifolds when a four ring version is used. The bubbles rising from the base saturate the ACSF and provide constant circulation of medium to the slices from the underside. Typically slices are placed on lens tissue which rests on the nylon nets or optionally on porous membrane discs attached to the netting. Bubbles are prevented from rising and being trapped under the slices by the half conditions. The BSK5 together contains a total of four rings. with the holding vessel can be



cylinder deflector, thereby BSK5-2 viewed from above. Brain slice keeper with rings and net in of medium. Slices remain viable place and with lid in place (inset). An included needle valve is used to many hours in these control the flow of oxygen mixture to the ceramic bubbler. A BSK5-4

easily placed into a water bath for regulating the incubating temperature as desired. A lid with a conical profile ensures that condensation drops do not fall directly on top of the slices. The typical fluid volume with BSK5-2 is around 250ml and reduced further with in BSK5-4 where two manifolds are utilized.



800.998.MATE | www.autom8.com | 812 Page St, Berkeley, CA 94710 USA

tel 510.845.6283 | fax 510.280.3795 | e-mail info@autom8.com

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