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Brain Slice Keeper



Pre-Incubation of Slice Preparations

The BSK4 Brain Slice Keeper has been designed to pre-incubate a large number of brain slices prior to transfer into recording chambers or for the incubation of preparations in experimental test media. Based on the BSK1, it consists of four closely fitting acrylic rings, located in a circular manifold, between which is wedged a removable sheet of nylon netting.

FEATURES

- * Slices maintained for many hours in incubating media
- * Four separate rings allow separation of different types of preparations
- * Slices supported on a quick change nylon net
- * Modular design simple to set up and maintain

In operation, the four rings located on a manifold with netting are totally immersed in an ACSF-filled purpose designed holding vessel into which a 95% O2, 5% CO2 gas mixture is supplied through a ceramic bubbler. The ceramic bubbler is located in a central tube chamber connected to the upper manifold. The bubbles rising from the base saturate the ACSF and provide constant circulation of medium to the slices which rest on the nylon nets. Bubbles are restricted to rising in the central

chamber and are prevented from being trapped under the slices, ensuring thereby а continuous circulation of medium. Slices remain viable for many hours in these conditions. The BSK4 together with the holding vessel can be easily placed into a water bath for regulating the incubating temperature as A lid with a desired. conical profile ensures that condensation drops do not fall directly above the slices. When in place, the fluid level is maintained at least 3mm above the upper ring. This ensures circulation of fluid over the and downwards top towards the slices. The typical fluid volume with BSK4 is 500ml but can be reduced by adding glass spheres into the base.



BSK4 Brain slice keeper with rings and net in place and with lid in place (inset). A needle valve is used to control the flow of oxygen mixture to the ceramic bubbler.



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Brain slice keeper schematic



