

Maintaining slices in interface conditions:

Brain slices are kept on a nylon mesh, which is placed on the top of a glass beaker containing ACSF. The level of ACSF should be adjusted such that the slices would be covered with a thin layer of solution. Slices are not placed directly on the mesh, but on small pieces of filter paper, which are used to transfer them in the recording chamber by grabbing the papers with a forceps.

The beak with the mesh is placed in a plastic box, which could be tightly covered. Between the beaker and the inner wall of the plastic box, ACSF is put. ACSF in this area is bubbled with carbogen gas. ACSF under the slices (i.e. in the glass beaker) is not directly bubbled, the gas gets into this compartment by diffusion that is promoted by slow stirring.

Mesh with brain slices
on the top of a glass beaker



Stirring rod

Tubing for carbogen gas

Plastic box



Stirrer