

## Artificial Cerebrospinal Fluid (ACSF, Sterile)

**Cat:** H7701

**Size:** 500mL

**Storage:** Store at 4°C for 6 months.

Product Components	Size
Artificial Cerebrospinal Fluid (Sterile)	500mL
Instruction book	1

### Introduction:

Artificial Cerebrospinal Fluid, also known as ACSF, is a colorless and transparent liquid that can simulate the human cerebrospinal fluid environment. Artificial cerebrospinal fluid is a sterile solution, which is treated aseptically with 0.22 $\mu$ m sterile filter membrane and can be used directly. The ion concentration, pH, and crystal osmotic pressure of the artificial cerebrospinal fluid are similar to human cerebrospinal fluid, avoiding many of the side effects of saline perfusion or use as a replacement fluid when CSF is lost. Artificial cerebrospinal fluid is often used as a replacement for CSF to protect interneurons during brain slice perfusion. In scientific research, artificial cerebrospinal fluid is commonly used to maintain pH balance and maintain tissue oxygen delivery, rat brain micro-dialysis experiments, and the cultivation of hippocampus tissue sections, etc. Through the test of artificial cerebrospinal fluid on the local irrigation of brain trauma lesions in rats, it has an effect on symptoms of brain trauma.

### Protocols:

1. The artificial cerebrospinal fluid is stored at 4°C before use, taken out half an hour in advance and placed at 37°C. Artificial cerebrospinal fluid is use as lavage fluid, and focal lavage was usually performed at 37°C normal saline and artificial cerebrospinal fluid at 30 minutes after injury.
2. If other experiments are performed, they should be performed according to the specific experimental requirements.

### Notes:

1. Artificial cerebrospinal fluid is a sterile solution and can be used directly.
2. The artificial cerebrospinal fluid is store at 4°C and transport at room temperature. Freezing is prohibited.
3. For your safety and health, please wear a lab coat and disposable gloves.