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## DATASHEET

aCSF Solution (Sterile Filtered)

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### Product overview

**Name** aCSF Solution (Sterile Filtered)  
**Cat No** HB4969  
**Biological description**

Artificial cerebrospinal fluid (aCSF) solution is prepared from analytical grade reagents and high purity water. It is microfiltered and sterile.

#### Uses & applications

It closely matches the electrolyte concentrations of CSF and is frequently used when sampling from brain interstitial fluid. It is regularly used in patch-clamp electrophysiology.

Final Ion Concentrations (in mM): Na 150; K 3.0; Ca 1.4; Mg 0.8; P 1.0; Cl<sup>-</sup> 155

**Description** Artificial cerebrospinal fluid (aCSF)

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### Solubility & Handling

**Storage instructions** Room temperature  
**Important** This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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### References

#### Patch-clamp studies in the CNS illustrate a simple new method for obtaining viable neurons in rat brain slices: glycerol replacement of NaCl protects CNS neurons

Ye JH *et al* (2006) J Neurosci Methods 158(2)  
**PubMedID** [16842860](#)

#### Modification of hippocampal excitability in brain slices pretreated with a low nanomolar concentration of Zn<sup>2+</sup>

Takeda A *et al* (2015) J Neurosci Res 93(11)  
**PubMedID** [26268632](#)

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