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# DATASHEET

## aCSF Solution (Sterile Filtered)

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### Product overview

<b>Name</b>	aCSF Solution (Sterile Filtered)
<b>Cat No</b>	HB4969
<b>Biological description</b>	<b><u>Overview</u></b>

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.

#### **Description**

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

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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Important</b>	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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