Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

aCSF Instant Powder (packets)

Product overview

Name Cat No Biological description aCSF Instant Powder (packets)

HB9200

Artificial cerebrospinal fluid (aCSF) is a widely used buffer in electrophysiological experiments to sustain *ex-vivo* brain sections. This kit contains 20 instant powder packets. Simply add each packet to 1L of dH₂O, mix and bubble with carbogen to make 1L of aCSF at physiological pH.

Key features:

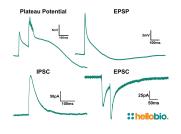
- \bullet Save time by using preformulated individual aCSF powder packets each packet dissolves in seconds and there's no need to add Mg²⁺ or Ca²⁺
- More reproducible with each pack's highly accurate formulation less error for better data.
- Extensively validated in a range of patch clamp electrophysiology experiments.

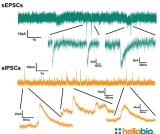
Contains (in mM): NaCl 124. Glucose 10, NaHCO₃ 24, KCl 3, NaH₂PO₄ 1.25, CaCl₂ 2.5, MgCl₂ 1.3

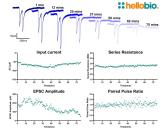
Biological action Description Buffer

Preformulated instant powder packets to make artificial cerebrospinal fluid (aCSF)

Images









Solubility & Handling

Storage instructions Handling

RT. Add each packet to 1L dH₂O.

Add the contents of each packet to 1000ml of deionised water, mix well and bubble with carbogen (10-15 minutes) to make 1L of aCSF at physiological pH. Warm to 37 °C before use.

Use immediately once opened.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

Chemical Data

Kit contents Preformulated packets. Each makes 1L of aCSF.

pH after carbogenation 7.2 pH before carbogenation 7.5

References

The development of synaptic plasticity induction rules and the requirement for postsynaptic spikes in rat hippocampal CA1 pyramidal neurones.

Buchanan KA et al (2007) The Journal of physiology 585

PubMedID 17932146

Reduced expression of the psychiatric risk gene DLG2 (PSD93) impairs hippocampal synaptic integration and plasticity.

Griesius S et al (2022) Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology 47

PubMedID 35115661