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DATASHEET

Cutting Solution Instant Powder (packets)

Product overview

Name	Cutting Solution Instant Powder (packets)
Cat No	HB8881
Biological description	Cutting solution is widely used in electrophysiological experiments to preserve brain activity while preparing <i>ex-vivo</i> brain slices. Simply dissolve the contents of each packet in dH ₂ O to a final volume of 1L, mix and bubble with carbogen to make 1L of cutting solution.

Key features:

- Save time using preformulated individual aCSF 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.

Description	Contains (in mM): Sucrose 205, Glucose 10, NaHCO ₃ 26, KCl 2.5, NaH ₂ PO ₄ 1.25, CaCl ₂ 0.5, MgSO ₄ 5 Preformulated packets to make cutting solution for electrophysiology.
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Solubility & Handling

Storage instructions	RT. Dissolve each pack in dH ₂ O to 1L final volume.
Handling	Dissolve the contents of each packet in dH ₂ O to a final volume of 1000ml and mix well. Bubble with carbogen and chill before use.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Kit contents	Preformulated packets each making 1L of cutting solution
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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](#)

