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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 *ex-vivo* brain slices. Simply dissolve the contents of each packet in dH_2O 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 Mg^{2+} or Ca^{2+} • More reproducible with each pack's highly accurate formulation - less error for better data.
	Contains (in mM): Sucrose 205. Glucose 10, $NaHCO_3$ 26, KCl 2.5, NaH_2PO_4 1.25, $CaCl_2$ 0.5, $MgSO_4$ 5
Description	Preformulated packets to make cutting solution for electrophysiology.

Solubility & Handling

Storage instructions	RT. Dissolve each pack in dH_2O to 1L final volume.
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Handling	Dissolve the contents of each packet in dH_2O to a final volume of 1000ml and mix well. Bubble with carbogen and chill before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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

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
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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