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## DATASHEET

### Cutting Solution Instant Powder (packets)

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#### Product overview

<b>Name</b>	Cutting Solution Instant Powder (packets)
<b>Cat No</b>	HB8881
<b>Biological description</b>	Cutting solution is widely used in electrophysiological experiments to preserve brain activity while preparing <i>ex-vivo</i> brain slices. Simply add each packet to 1L of dH <sub>2</sub> O, 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<sup>2+</sup> or Ca<sup>2+</sup>
- More reproducible with each pack's highly accurate formulation - less error for better data.

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

<b>Storage instructions</b>	RT. Add packet contents to 1L dH <sub>2</sub> O
<b>Handling</b>	Add the contents of each packet to 1000ml of dionised water and mix well. Bubble with carbogen and chill before use.
<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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#### Chemical Data

<b>Kit contents</b>	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](#)

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