MACS® NeuroBrew®-21 (50×)

Order no. 130-093-566

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1. Description

This product is for research use only.

Components	10 mL MACS NeuroBrew-21 (50×)
Quality control	Functionality assay: Satisfactory cultivation of neuronal cells from CD1 mouse brain (P1) when used in combination with MACS Neuro Medium.
Capacity	For the preparation of 500 mL MACS Neuro Medium (# 130-093-570).
Storage	MACS NeuroBrew-21 (50×) should be stored upon arrival at –20 °C. The expiration date is indicated on the vial label. Avoid repeated freeze-thaw cycles. Protect from light.

1.1 Background information

MACS NeuroBrew-21 (50×) is an optimized serum-free supplement developed for low density plating and long-term viability and growth of primary neurons of the central and peripheral nervous system without the need of an astrocyte feeder layer. MACS NeuroBrew-21 (50×) is a supplement formulation based on NS-21[1], which is an improved version of the B27 supplement. MACS NeuroBrew-21 (50×) has also been tested and demonstrated potent cultivation of primary astrocytes and oligodendrocytes isolated from neonatal and adult rodent brain.
Refer to www.miltenyibiotec.com for a complete list of cytokines for best supplementation of neural populations.

1.2 Applications

- MACS NeuroBrew-21 (50×) is a serum-free supplement designed for the optimal growth and long-term viability of neurons of the central nervous system.
- MACS NeuroBrew-21 (50×), when used as a supplement to MACS Neuro Medium (# 130-093-570), supports the growth of primary neurons, astrocytes, and oligodendrocytes isolated from embryonic, neonatal, or adult rodent brain.

2. Protocol

For preparation of MACS Neuro Medium add 200 µL of MACS NeuroBrew-21 (50×) to 10 mL of MACS Neuro Medium (or 10 mL of MACS NeuroBrew-21 (50×) to 490 mL of MACS Neuro Medium).

3. Reference

1. Chen, Y. *et al.* (2008) NS21: re-defined and modified supplement B27 for neuronal cultures. J. Neurosci. Methods 171: 239–247.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

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