MACS® Neuro Medium

Order no. 130-093-570

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1. Description

This product is for research use only.

Components	500 mL MACS Neuro Medium, w/o Glutamine
Specifications	Osmolality: 215–230 mOsmol/kg pH: 6.9–7.5
Quality control	Functionality assay: Satisfactory cultivation of primary neural cells from dissociated neonatal mouse brain tissue.
Storage	Store protected from light at 2–8 °C. Do not freeze. The expiration date is indicated on the vial label.

1.1 Background information

The serum-free MACS Neuro Medium has been developed for the short and long-term cultivation of embryonic, neonatal, and adult neural cells when supplemented with MACS NeuroBrew®-21 without the need of an astrocyte feeder layer. The medium has been designed for high cell viability and consistency under serum free conditions.

In combination with MACS NeuroBrew-21, the medium promotes also optimum growth of isolated neural cells after tissue dissociation using Neural Tissue Dissociation Kits or the Adult Brain Dissociation Kit and subsequent cell isolation by magnetic cell sorting. For optimum cultivation of isolated neonatal and adult astrocytes, the AstroMACS Medium (# 130-117-031) is recommended. The MACS Neuro Medium can also be used for the cultivation of different tumor cell lines of neuronal origin.

In case of cultivation of neural stem cells, neurospheres, embryonic stem (ES) cells, or induced pluripotent stem (iPS) cells, supplementation with MACS NeuroBrew-21 w/o Vitamin A (# 130-097-263) and additional factors depending on the application is recommended.

1.2 Applications

- Cultivation of embryonic, neonatal, and adult neural cells without the need of an astrocyte feeder layer, when supplemented with MACS NeuroBrew-21 (# 130-093-566).
- Cultivation of neural stem cells, neurospheres, embryonic stem (ES) cells, or induced pluripotent stem (iPS) cells in combination with MACS NeuroBrew-21 w/o Vitamin A (# 130-097-263) and other factors depending on the exact application.

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