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## 1. Description

**Product format** 10 mL MACS<sup>®</sup> Supplement B27 PLUS (50× stock solution).

**Product size** For the preparation of 500 mL MACS Neuro Medium (# 130-093-570).

**Storage** MACS Supplement B27 PLUS 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.

▲ MACS Supplement B27 PLUS is intended for laboratory research use only.

### 1.1 Background information

MACS<sup>®</sup> Supplement B27 PLUS is an optimized serum-free supplement developed for low density plating and long-term viability and growth of neurons of the central and peripheral nervous system. MACS Supplement B27 PLUS is a chemically-defined supplement based on published formulations of B27 that has been optimized with additional components<sup>1</sup>, and promotes optimum culture of cells. When added to MACS Neuro Medium (# 130-093-570), MACS Supplement B27 PLUS supports the growth of neuronal cells without an astrocyte feeder layer.

Refer to [www.miltenyibiotec.com](http://www.miltenyibiotec.com) for a complete list of cytokines for best supplementation of neuroneal populations.

### 1.2 Applications

- MACS Supplement B27 PLUS is a serum-free supplement designed for the optimal growth and long-term viability of neurons of the central nervous system.
- MACS Supplement B27 PLUS, when used as a supplement to MACS Neuro Medium (# 130-093-570), supports the growth of nearly pure populations of neural cells without the need of an astrocyte feeder layer.

## 2. Product dilution

For preparation of MACS Neuro Medium add 200 µL of MACS Supplement B27 PLUS to 10 mL of MACS Neuro Medium (or 10 mL of MACS Supplement B27 PLUS 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.

All protocols and data sheets are available at [www.miltenyibiotec.com](http://www.miltenyibiotec.com).

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