

# NeuroCult™ SM1 Without Insulin



**Serum-free neural supplement without insulin**

Catalog # 05733

10 mL

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## Product Description

NeuroCult™ SM1 Without Insulin is an optimized serum-free culture supplement, based on the published B27 formulation (Brewer et al.), with insulin removed. NeuroCult™ SM1 Without Insulin can be used in protocols where the effects of insulin are being studied, or where insulin may interfere with cellular function. In combination with a basal medium of choice, NeuroCult™ SM1 Without Insulin can be used for neural progenitor cell expansion, the study of neural stem and progenitor cell differentiation, and cardiomyocyte and hepatocyte differentiation protocols.

- Versatile cell culture supplement
- Optimized, serum-free formulation
- Raw materials rigorously screened

## Properties

|                    |  |
|--------------------|--|
| <b>Storage:</b>    | Store at -20°C.  |
| <b>Shelf Life:</b> | Stable until expiry date (EXP) on label.   |
| <b>Contains:</b>   | <ul style="list-style-type: none"><li>• Antioxidants</li><li>• Other ingredients</li></ul> |

This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

Lot-to-lot variability in color of this product may be expected. This will not affect performance.

## Handling / Directions For Use

1. Thaw bottle of NeuroCult™ SM1 Without Insulin at room temperature (15 - 25°C) for 1 hour or at 2 - 8°C overnight.  
NOTE: If not used immediately, aliquot and store at -20°C. Do not exceed the expiry date (EXP) as indicated on label.
2. Add supplement to basal medium (e.g. RPMI 1640 Medium; Catalog #36750) at a 1 in 50 dilution. Mix thoroughly.  
NOTE: If not used immediately, store at 2 - 8°C for up to 1 month.
3. Use as directed in the protocol of choice.

## Notes and Tips

For related products, including specialized culture media, cytokines, dissociation reagents, and cultureware, visit [www.stemcell.com/NSPCworkflow](http://www.stemcell.com/NSPCworkflow) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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- Chen Y et al. (2008) NS21: re-defined and modified supplement B27 for neuronal cultures. *J Neurosci Methods* 171(2): 239–47.
- O'Connor TJ et al. (1998) Isolation and propagation of stem cells from various regions of the embryonic mammalian central nervous system. In: Celis JE (Ed.) *Cell Biology. A Laboratory Handbook* (p. 149). London, UK: Academic Press.

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