NeuroCult™ SM1 Without Antioxidants

Serum-free neural supplement without antioxidants

Catalog # 05732 10 mL

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Product Description

NeuroCult™ SM1 Without Antioxidants is an optimized serum-free culture supplement, based on the published B27 formulation (Brewer et al.), with antioxidants (tocopherol, tocopherol acetate, superoxide dismutase, catalase, and glutathione) removed. NeuroCult™ SM1 Without Antioxidants can be used in protocols where antioxidants may interfere with oxidative stress, or similar assays used in neurodegenerative research. In combination with a basal medium of choice, NeuroCult™ SM1 Without Antioxidants can be used for neural progenitor cell expansion and the study of neural stem and progenitor cell differentiation.

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

Properties

Storage: Store at -20°C.

Shelf Life: Stable until expiry date (EXP) on label.

Contains:
- Insulin
- Other ingredients

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 Antioxidants 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. DMEM/F-12 with 15 mM HEPES; Catalog #36254) 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 or contact us at techsupport@stemcell.com.

References

Brewer GJ et al. (1993) Optimized survival of hippocampal neurons in B27-supplemented Neurobasal, a new serum-free medium combination. J Neurosci Res 35(5): 567–76.
Brewer GJ & Cotman CW. (1989) Survival and growth of hippocampal neurons in defined medium at low density: advantages of a sandwich culture technique or low oxygen. Brain Res 494(1): 65–74.
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.
Perry SW et al. (2004) Antioxidants are required during the early critical period, but not later, for neuronal survival. J Neurosci Res 78(4): 485–92.