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

Storage: Store at -20°C.

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

Contains:
- Antioxidants
- 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 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 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.
Burridge PW et al. (2014) Chemically defined generation of human cardiomyocytes. Nat Methods 11(8): 855–60.
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.