

NeuroCult™ Proliferation Supplement (Mouse)

Supplement for Expansion of Mouse Neural Stem and Progenitor Cells

Catalog # 05701 50 mL



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FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

NeuroCult™ Proliferation Supplement (Mouse) is a standardized, serum-free supplement for the culture of mouse neural stem and progenitor cells. NeuroCult™ Proliferation Supplement (Mouse) is designed to be combined with NeuroCult™ Basal Medium (Mouse; Catalog #05700) and appropriate cytokines (not included). NeuroCult™ Proliferation Supplement (Mouse) is optimized to maintain mouse neural stem cells in culture for extended periods of time without the loss of their self-renewal, proliferation or differentiation potential. This supplement is also a component of the NeuroCult™ Proliferation Kit (Mouse; Catalog #05702).

NOTE: When preparing complete NeuroCult™ Proliferation Medium (Mouse), addition of rh EGF (Catalog #02633) is required. When culturing cells obtained from adult mouse, rh bFGF (Catalog #02634) and heparin (Catalog #07980) are also required.

Properties

Storage: Store at -20°C.

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

This product contains components derived from human plasma. Donors have been tested and found negative for hepatitis B surface antigen (HBsAg) and HIV-1 antibodies and/or HIV-1 antigen. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

Handling / Directions For Use

PREPARATION OF COMPLETE NEUROCULT™ PROLIFERATION MEDIUM (MOUSE)

Use sterile techniques when preparing complete NeuroCult™ Proliferation Medium (NeuroCult™ Basal Medium + NeuroCult™ Proliferation Supplement). The following example is for preparing 500 mL of complete NeuroCult™ Proliferation Medium (Mouse). If preparing other volumes, adjust accordingly.

1. Thaw NeuroCult™ Proliferation Supplement (Mouse) at 37°C. Mix well.
NOTE: A white precipitate may form after storage at -20°C. The precipitate will disappear after complete thawing at 37°C and mixing the contents.
NOTE: Once thawed, use supplement immediately or aliquot and store at -20°C. Do not exceed the shelf life of the the supplement. After thawing the aliquots, use immediately. Do not re-freeze.
2. Add 50 mL of NeuroCult™ Proliferation Supplement (Mouse) to 450 mL of NeuroCult™ Basal Medium (Mouse; Catalog #05700).
NOTE: If not used immediately, store NeuroCult™ Proliferation Medium (Mouse) without cytokines at 2 - 8°C for up to 1 month. Do not exceed the shelf life of the individual components.
3. Cytokines are not included in the medium or supplement and must be added. STEMCELL Technologies recommends:
 - For embryonic mouse neural stem cells
 - 20 ng/mL rh EGF (Catalog #02633)
 - For adult mouse neural stem cells
 - 20 ng/mL rh EGF (Catalog #02633)
 - 10 ng/mL rh bFGF (Catalog #02634)
 - 2 µg/mL Heparin (Catalog #07980)

NOTE: Following the addition of cytokines, store complete NeuroCult™ Proliferation Medium (Mouse) at 2 - 8°C for up to 1 week. Avoid prolonged exposure to light during experiments.

NOTE: This product does not contain antibiotics. If desired, add antibiotics and use within 1 week.

For complete instructions on culturing mouse neural stem and progenitor cells with NeuroCult™, please refer to the Technical Manual: In Vitro Proliferation and Differentiation of Mouse Neural Stem and Progenitor Cells Using NeuroCult™ (Document #28704), available on our website at www.stemcell.com or contact us to request a copy.

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