

NeuroCult™ NS-A Differentiation Kit (Rat)

Medium for differentiation of rat neural stem and progenitor cells

Catalog #05772

1 Kit



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Product Description

NeuroCult™ NS-A Differentiation Kit (Rat)* is a standardized medium for the differentiation of rat neural stem and progenitor cells into astrocytes, neurons, and oligodendrocytes.

Product Information

The following components are sold as a complete kit (Catalog #05772) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
NeuroCult™ NS-A Basal Medium (Rat)	05770	450 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label.
NeuroCult™ NS-A Differentiation Supplement (Rat)**†	05774	50 mL	Store at -20°C.	Stable until expiry date (EXP) on label.

**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.

†Components of NeuroCult™ NS-A Differentiation Supplement (Rat) are pretested and selected to support the growth and expansion of rat neural stem and progenitor cells when combined with NeuroCult™ NS-A Basal Medium (Rat). Cytokines are not included.

Preparation of Complete NeuroCult™ Differentiation Medium (Rat)

Use sterile techniques to prepare complete NeuroCult™ Differentiation Medium (Basal Medium + Differentiation Supplement).

The following example is for preparing 500 mL of complete medium. If preparing other volumes, adjust accordingly.

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

1. Thaw NeuroCult™ NS-A Differentiation Supplement (Rat) at 37°C. Mix thoroughly.

NOTE: Once thawed, use immediately or aliquot and store at -20°C. Do not exceed the shelf life of the supplement. Do not freeze-thaw more than twice.

NOTE: A white precipitate may form upon storage at -20°C. The precipitate will disappear after complete thawing at 37°C and mixing the contents well.

2. Add 50 mL of Differentiation Supplement to 450 mL of Basal Medium.

NOTE: If not used immediately, store complete NeuroCult™ Differentiation Medium at 2 - 8°C for up to 1 month. Avoid repeated exposure of medium to room temperature (15 - 25°C) and light during experiments.

Directions for Use

For complete instructions on culturing rat neural stem and progenitor cells with NeuroCult™ NS-A Differentiation Kit (Rat), refer to the Technical Manual: In Vitro Proliferation and Differentiation of Rat Neural Stem and Progenitor Cells (Neurospheres) Using NeuroCult™ (Document #28725), available at www.stemcell.com or contact us to request a copy.

* Sold under license from StemCells California, Inc. US Patent Nos. 5,750,376; 5,851,832; 5,980,885; 5,968,829; 5,981,165; 6,071,889; 6,093,531; 6,103,530; 6,165,783; 6,238,922.

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