

# NeuroCult™ NS-A Differentiation Kit (Human)



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## Medium for differentiation of human neural stem and progenitor cells

Catalog #05752 1 Kit

## Product Description

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

## Product Information

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
NeuroCult™ NS-A Basal Medium (Human)	05750	450 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label.
NeuroCult™ NS-A Differentiation Supplement (Human)**†	05754	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.

†This component is sold as part of NeuroCult™ NS-A Differentiation Kit (Human; Catalog #05752) and is not available for individual sale. Components of NeuroCult™ NS-A Differentiation Supplement (Human) are pretested and selected to support the growth and expansion of human neural stem and progenitor cells when combined with NeuroCult™ NS-A Basal Medium (Human). Cytokines are not included.

## Preparation of Complete NeuroCult™ Differentiation Medium (Human)

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 (Human) 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 human neural stem and progenitor cells with NeuroCult™ NS-A Differentiation Kit (Human), refer to the Technical Manual: In Vitro Proliferation and Differentiation of Human Neural Stem and Progenitor Cells Using NeuroCult™ or NeuroCult™-XF (Document #28724), available at [www.stemcell.com](http://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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