

# NeuroCult™ NCFC Assay Kit (Mouse)

## Assay to Quantify Neural Stem and Progenitor Cells

Catalog #05740

1 Kit



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

## Product Description

The single-step NeuroCult™ Neural Colony-Forming Cell (NCFC) Assay allows discrimination between neural stem and progenitor cells. Using the NeuroCult™ NCFC Assay Kit (Mouse), clonally-derived colonies of different sizes are generated and colony size is used to enumerate neural stem cells, as their proliferative potential is greater than that of progenitors and more mature cells. Cells with high proliferative potential form the largest-sized colonies ( $\geq 2$  mm in diameter) in the NCFC Assay and fulfill all the functional criteria of an NSC. Cells with low and limited proliferative potential form colonies  $< 2$  mm in diameter. They are designated as progenitor cells and do not meet all the functional criteria of a stem cell.

## Product Information

PRODUCT NAME	CATALOG #	SIZE	STORAGE	SHELF LIFE
NeuroCult™ NCFC Serum-Free Medium without Cytokines*†	05720	50 mL	Store at -20°C. Store at 2 - 8°C for up to 2 weeks. Store 10 mL aliquots at -20°C. Do not freeze-thaw more than twice.	Stable until expiry date (EXP) on label.
NeuroCult™ Proliferation Supplement (Mouse) **†	05701	50 mL	Store at -20°C. Store 10 mL aliquots at -20°C. Do not freeze-thaw more than twice.	Stable until expiry date (EXP) on label.
NeuroCult™ Basal Medium (Mouse) **	05700	450 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label.
Collagen Solution	04902	35 mL	Store at 2 - 8°C. <b>Do not freeze or store at room temperature (15 - 25°C).</b>	Stable until expiry date (EXP) on label.
NeuroCult™ Collagenase Solution*	07914	5 mL	Store at -20°C.	Stable until expiry date (EXP) on label.
35 mm Culture Dishes	27100	70 dishes (10 dishes/pack)	Store at 15 - 25°C.	Not applicable.
60 mm Gridded Scoring Dishes	27500	5 dishes	Store at 15 - 25°C.	Not applicable.

\*This component is sold as part of the NeuroCult™ NCFC Assay Kit (Mouse; Catalog #05740) and is not available for individual sale.

†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.

\*\*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.

NeuroCult™ NCFC Serum-Free Medium without Cytokines (Component #05720), NeuroCult™ Proliferation Supplement (Mouse; Catalog #05701), NeuroCult™ Basal Medium (Mouse; Catalog #05700) and Collagen Solution (Catalog #04902) are filter sterilized and each batch is sterility tested. Products undergo performance testing and are compared to a laboratory standard.

NeuroCult™ Collagenase Solution (Catalog #07914) is filter sterilized and each batch is sterility tested.

## Directions for Use

NOTE: When culturing adult mouse NSCs, supplementation with EGF, Human, Recombinant (Catalog #02633), bFGF, Human, Recombinant (Catalog #02634), and 0.2% Heparin Sodium Salt in PBS (Catalog #07980) is required. When culturing embryonic mouse NSCs, only EGF, Human, Recombinant is required. **These supplements are not supplied with this kit.**

For instructions on how to perform the NCFC Assay refer to the Technical Manual: Identification and Enumeration of Mouse Neural Stem and Progenitor Cells with the NeuroCult™ Neural Colony-Forming Cell (NCFC) Assay Kit (Document #28709) available on our website at [www.stemcell.com](http://www.stemcell.com) or contact us to request a copy.

For additional details regarding the culture of mouse neural stem and progenitor cells, refer to the Technical Manual: In Vitro Proliferation and Differentiation of Mouse Neural Stem and Progenitor Cells Using NeuroCult™ (Document #28704).

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