

# NeuroCult™ Chemical Dissociation Kit (Mouse)

## Kit for Chemical Dissociation of Mouse Neurospheres

Catalog #05707

1 Kit



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

## Product Description

NeuroCult™ Chemical Dissociation Kit (Mouse) is for the **non-mechanical** and **non-enzymatic** dissociation of neurospheres derived from embryonic or adult mouse central nervous system (CNS) tissue. Chemical dissociation with this kit results in minimal damage to the cells within neurospheres, allowing for increased viability, an increase in total number of cells generated per passage, and maintenance of the cells' functional properties upon subsequent subculture.

## Product Information

The following components are sold as part of the NeuroCult™ Chemical Dissociation Kit (Mouse) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE
NeuroCult™ Chemical Dissociation Solution A	05707A	55 mL	Store at 15 - 25°C.
NeuroCult™ Chemical Dissociation Solution B*	05707B	15 mL	Store at 15 - 25°C.
NeuroCult™ Chemical Dissociation Solution C*	05707C	15 mL	Store at 15 - 25°C.

\*Please refer to the Safety Data Sheet (SDS) for hazard information.

## Directions for Use

For complete instructions refer to the Technical Manual: Chemical Dissociation of Neurospheres Derived from Embryonic and Adult Mouse CNS using the NeuroCult™ Chemical Dissociation Kit (Document #28729), available on our website at [www.stemcell.com](http://www.stemcell.com) or contact us to request a copy.

Brief overview of NeuroCult™ Chemical Dissociation procedure:

1. Harvest neurospheres and centrifuge to collect.
2. Remove the supernatant.
3. Resuspend the neurosphere pellet in NeuroCult™ Chemical Dissociation Solution A at room temperature (15 - 25°C).
4. Add NeuroCult™ Chemical Dissociation Solution B and incubate for 8 minutes.

NOTE: The incubation times outlined in the NeuroCult™ Chemical Dissociation procedure are crucial for performance. It is important to observe the incubation times precisely. STEMCELL Technologies recommends the use of an accurate lab timer.

5. After 3 and 7 minutes, gently pipette cells 8 times.
6. At the end of the 8-minute incubation period, add NeuroCult™ Chemical Dissociation Solution C and pipette gently 8 times.
7. The cells from the neurospheres are now in a single-cell suspension and ready for use.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.

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