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Published on *Cell Applications* (https://www.cellapplications.com)

Mouse Neural Stem Cells: MNSC

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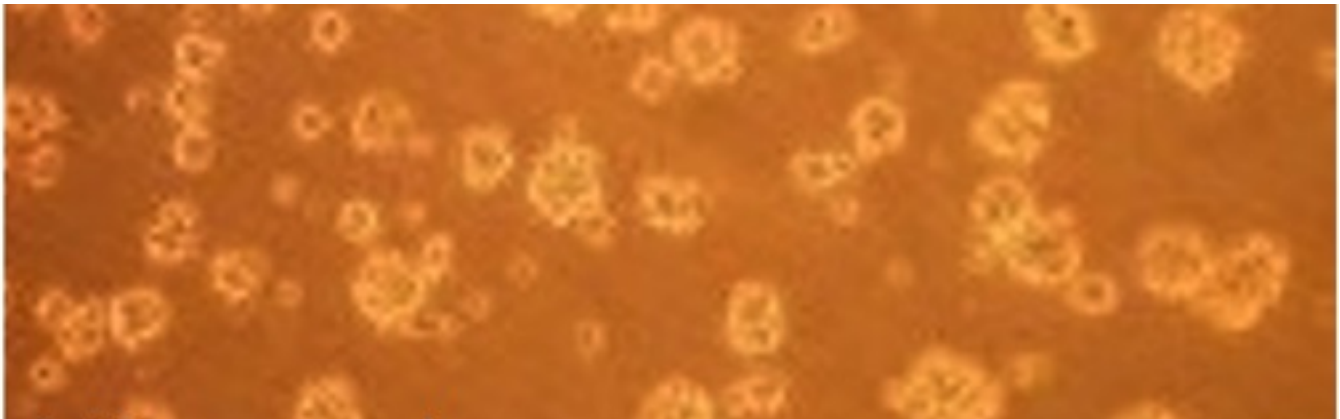
Description

Mouse Neural Stem Cells (MNSC) are multipotent, and can be induced to differentiate into neurons, astrocytes and oligodendrocytes that make up the central nervous system (CNS). Neurospheres transplanted into intact brain can survive, expand and differentiate into mature neurons, astrocytes and oligodendrocytes in 3 weeks. The ability of neural stem cells to retain multi-lineage potential and proliferate extensively in vitro provides new avenues for the treatment of neural degenerative diseases and injuries.

Isolated from fetal or adult mouse brains, MNSC are maintained in an undifferentiated, proliferative state by culturing them as free floating neurospheres in serum-free medium optimized with growth factors. MNSC are cryopreserved at first passage and can be cultured and propagated for 1-2 passages prior to induction of phenotypic differentiation. Differentiated MNSCs are positive for ?-tubulin III, GFAP and the oligodendrocyte marker O4 when cultured in Mouse Neural Differentiation Medium. The cells form neurospheres in Mat Neural Stem Cell Growth Medium.



(Click to Enlarge) **Mouse Neural Stem Cells (MNSC)** (A) and Differentiated MNSC immunofluorescently stained with antibodies to ?III-tubulin (B), GFAP (C) and oligodendrocyte marker O4 (D).

Details

Tissue	Normal healthy mouse brain cerebral cortex
QC	No bacteria, yeast, fungi, mycoplasma
Character	?-tubulin III, GFAP & O4 (+) in Diff Med
Bioassay	Form neurospheres in MNSC Gr Med
Cryovial	2,000,000 MNSC (1st psg) cryopreserved in Freezing Med (040-50)
Kit	Frozen cryovial MNSC (MS820-20f), Grwth Med (R813-250), Neural Stem Cell Dissociation Solution (076-20), 10cm non-TC dish x2
Proliferating	Shipped in Gr Med, 2nd psg (flasks or plates)
Doublings	At least 2
Applications	Laboratory research use only (RUO). Not for human, clinical, diagnostic or veterinary use.

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