

Neural StemCell Growth Medium for Human and Rat Neural Stem Cells

Neural StemCell Growth complete medium is formulated for optimal growth of human neural stem cells (NSCs) allowing for an average doubling time of approximately 48 hours. Neural StemCell Growth medium contains glutamine but no antibiotics. After all the components are added to the basal medium and filtered to ensure sterility, the media is complete and ready to use for expansion of human or rat neural stem cells. These NSCs grow best when cultured in a humidified incubator set at 6% CO₂, 37°C and oxygen concentrations below 3% O₂.

Making Neural StemCell Complete Growth Medium for Human and Rat NSCs

1. Neural StemCell Growth medium (Cat.# 21001-250) includes the following components:
 - a. Neural StemCell Growth Basal Medium
 - b. Neural StemCell Growth Supplement Pack containing the following components:

Supplement Pack Components
Neural StemCell Growth Supplement (contains glutamine)
Laminin
bFGF
EGF
Proprietary Factor

Preparing Neural StemCell Growth Medium

1. Warm Neural StemCell Growth basal medium to room temperature
2. Thaw Neural StemCell Growth Supplement and growth factors to room temperature
3. Aseptically add the supplements to the basal medium in this order
 - a. Neural StemCell Growth Supplement - transfer entire contents of the vial then rinse the vial with Neural StemCell Growth basal medium
 - b. Growth factors and proprietary factor
4. Antibiotics are optional but may be added. The cells have been tested in media containing 150ul of Gentamicin (Gibco Cat. # 15750-060 50mg/ml) in 250ml media.
5. Filter through 0.22µm filter unit
6. Store the complete medium at 4°C in the dark until ready for use
7. Warm the complete medium to room temperature immediately before use.
 - a. Do not leave the complete medium in a water-bath for longer than 5 minutes as this may result in degradation of the growth factors and glutamine
8. Use Neural StemCell Growth complete medium within two weeks

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