

## Neural Transition Medium for Neural Stem Cells

Neural Transition complete medium is formulated to transition NSCs from growth phase into differentiation phase. Neural Transition 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 to prepare NSCs for differentiation. For best growth and differentiation results NSCs should be cultured in a humidified incubator set at 6% CO<sub>2</sub>, 37°C and oxygen concentration below 5% O<sub>2</sub>.

### Making Neural Transition Complete Medium for NSCs

1. Neural Transition Medium (Cat.# 21003-250) includes the following components:
  - a. Neural Transition Basal Medium
  - b. Neural Transition Supplement Pack containing the following components:

| Supplement Pack Components                        |
|---|
| Neural Transition Supplement (contains glutamine) |
| Laminin   |
| bFGF  |
| EGF   |

### Preparing Neural Transition Medium

1. Warm Neural Transition basal medium to room temperature
2. Thaw Neural Transition Base Supplement and growth factors
3. Aseptically add the supplements to the basal medium in this order
  - a. Neural Transition Supplement - transfer entire contents of the vial then rinse the vial with Neural Transition basal medium
  - b. Growth factors
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
8. Use Neural Transition complete medium within two weeks

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