

## Certificate of Analysis

**Neural Stem Cell Growth Medium**

Catalog No. GUXNX-90011

Lot Number: T140324G001

Preparation Date: 2014-03-24

Size: 100 ml

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### Kit Components

Containing 96 ml of Neural Stem Cell Basal Medium (Cat. No. GUXNX -03011-96), 2 ml of B27, 20 ul of bFGF, 10 ul of EGF, 1 ml of Glutamine, 1 ml of Penicilin-Streptomycin Solution and 100 ul of Heparin, pH 7.2. Store at 4°C once prepared.

### Sterility

Bacterial and Fungal Contamination: Samples are inoculated and cultured on blood agar plate, thioglycolate broth, trypticase soy broth and sabouraud dextrose agar.

Specification: No growth must be observed.

Mycoplasma: Samples are tested for mycoplasma contamination using a PCR-based assay and direct culture.

Specification: Results must be negative.

Endotoxin: Samples are tested for endotoxin contamination with LAL test.

Specification: Results must show a concentration of  $\leq 25\text{EU/ml}$ .

### Cell culture testing

Each batch of growth medium is tested for its ability to support in vitro growth of Neural Stem Cell.

When are cultured in growth medium, >80% of the cells retain their undifferentiated phenotype, and can be differentiated into Neurons, Astrocytes and Oligodendrocytes. Neural Stem Cells must demonstrate a doubling time of 20-30 hours, and can proliferate for  $\geq 3$  passages.

### Results:

All specifications have been met.

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