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## Certificate of Analysis

**Mesenchymal Stem Cell Growth Medium**

Catalog No. GUXMX-90011

Lot Number: T130924G001

Preparation Date: 2013-09-24

Size: 500 ml

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### **Kit Components**

Containing 440 ml of Mesenchymal Stem Cell Basal Medium (Cat. No. GUXMX-03011-440), 50 ml of Mesenchymal Stem Cell-Qualified Fetal Bovine Serum (Cat. No. GUXMX -05001-50), 5 ml of L-Glutamine, 5 ml of Penicilin-Streptomycin Solution, pH7.2. Store at 4°C.

### **Sterility**

Bacterial and Fungal Contamination: Samples are inoculated and cultured on blood agar plate, thioglycolate broth, tryptocase 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 mesenchymal stem cells. When are cultured in growth medium, cells must demonstrate a doubling time of 18-24 h, can proliferate for  $\geq 5$  passages, and that  $\leq 5\%$  of cells exhibit spontaneous differentiation in each passage.

### **Results:**

All specifications have been met.

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Oct 11, 2013