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## Certificate of Analysis

**Human Mesenchymal Stem Cell Growth Medium**

Catalog No. HUXMX-90011

Lot Number: T140616G001

Preparation Date: 2014-06-16

Size: 500 ml

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### Kit Components

Containing 440 ml of Human Mesenchymal Stem Cell Basal Medium (Cat. No. HUXMX-03011-440), 50 ml of Human Mesenchymal Stem Cell-Qualified Fetal Bovine Serum (Cat. No. HUXMX -05001-50), 5 ml of L-Glutamine, 5 ml of Penicilin-Streptomycin Solution, pH 7.2. Store at 4°C.

### Sterility

Bacterial and Fungal Contamination: Samples are inoculated and cultured in 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 human 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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