

# Certificate of Analysis

**Human Mesenchymal Stem Cell Growth Medium**

Catalog No. HUXMX-90011

Lot Number: 121126c01

Preparation Date: 2012-11-26

Size: 100ml

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## **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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