

## Certificate of Analysis

**Mesenchymal Stem Cells Osteogenic Differentiation Medium**

Catalog No. GUXMX-90021

Lot Number: 110922c01

Preparation Date: 2011-9-22

Size: 200ml

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### Kit Components

Containing 175 ml of Mesenchymal Stem Cell Osteogenic Differentiation Basal Medium (Cat. No. GUXMX-03021-175), 20 ml of Mesenchymal Stem Cell-Qualified Fetal Bovine Serum (Cat. No. GUXMX-05001-20), 2 ml of Penicillin-Streptomycin, 2 ml of Glutamine, 400 ul of Ascorbate, 2 ml of  $\beta$ -Glycerophosphate and 20 ul of Dexamethasone. Store at 4 °C once prepared.

### 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 direct culture.

Specification: Results must be negative.

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

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

### Differentiation Ability

Mesenchymal Stem cells are assayed after cryopreservation for their ability to differentiate into osteocytes using Mesenchymal Stem Cells Osteogenic Differentiation Medium, about 50% cells are stained with Alizarin Red.

### Results:

All specifications have been met.

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Oct 8, 2011