

## Certificate of Analysis

**Mesenchymal Stem Cell Adipogenic Differentiation Medium**

Catalog No. GUXMX-90031

Lot Number: T140103G001

Preparation Date: 2014-01-03

Size: 200 ml

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### Kit Components

Mesenchymal Stem Cell Adipogenic Differentiation Medium A:

Mesenchymal Stem Cell Adipogenic Differentiation Basal Medium A 175 ml

(Cat. No. GUXMX -03031-175)

Mesenchymal Stem Cell-Qualified Fetal Bovine Serum 20 ml

(Cat. No. GUXMX -05001-20)

Penicillin-Streptomycin 2 ml

Glutamine 2 ml

Insulin 400 ul

IBMX 200 ul

Rosiglitazone 200 ul

Dexamethasone 200 ul

Mesenchymal Stem Cell Adipogenic Differentiation Medium B:

Mesenchymal Stem Cell Adipogenic Differentiation Basal Medium B 175 ml

(Cat. No. GUXMX -03032-175)

Mesenchymal Stem Cell-Qualified Fetal Bovine Serum 20 ml

(Cat. No. GUXMX -05001-20)

Penicillin-Streptomycin 2 ml

Glutamine 2 ml

Insulin 400 ul

Store at 4 °C once prepared.

### 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 direct culture.

Specification: Results must be negative.

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

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

### **Differentiation Ability**

Mesenchymal Stem cells are assayed after cryopreservation for their ability to differentiate into adipocytes using Mesenchymal Stem Cells Adipogenic Differentiation Medium, about 50% cells are stained with Oil Red O.

### **Results:**

All specifications have been met.

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Feb 10, 2013