

## Certificate of Analysis

**Mesenchymal Stem Cell Adipogenic Differentiation Medium**

Catalog No. GUXMX-90031

Lot Number: T180822G001

Preparation Date: 2018-08-22

Size: 200 ml

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**Kit Components****Mesenchymal Stem Cell Adipogenic Differentiation Medium A:**

Mesenchymal Stem Cell Adipogenic Differentiation Basal Medium A (Cat. No. GUXMX -03031-175)	175 ml
Mesenchymal Stem Cell-Qualified Fetal Bovine Serum (Cat. No. GUXMX -05001-20)	20 ml
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 (Cat. No. GUXMX -03032-175)	175 ml
Mesenchymal Stem Cell-Qualified Fetal Bovine Serum (Cat. No. GUXMX -05001-20)	20 ml
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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