

## Certificate of Analysis

**Human Mesenchymal Stem Cell  
Hepatogenic Differentiation Medium**

Catalog No. HUXMX-90101  
Lot Number: T141212G001

Preparation Date: 2014-12-12

Size: 200 ml

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### Kit Components

#### Pretreatment Medium

Human Mesenchymal Stem Cell Hepatogenic Differentiation Basal Medium 100 ml

(Cat. No. HUXMA-03101)

EGF 20 µl

bFGF 10 µl

#### Hepatocyte Differentiation Medium

Human Mesenchymal Stem Cell Hepatogenic Differentiation Basal Medium 100 ml

HGF 20 µl

bFGF 10 µl

Nicotinamide 100 µl

#### Hepatocyte Maturation Medium

Human Mesenchymal Stem Cell Hepatogenic Differentiation Basal Medium 100 ml

Oncostatin M 20 µl

Dexamethasone 50 µl

ITS+Premix 1 ml

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  $\leq 25$  EU/ml.

### **Differentiation Ability**

Human mesenchymal stem cell are assayed after cryopreservation for their ability to differentiate into hepatocytes using Human Mesenchymal Stem Cell Hepatogenic Differentiation Medium.

Cells are assayed using Immunofluorescence analysis during the differentiation. Cells must show  $\geq 70\%$  positivity for expression of markers AFP, CK-18 and ALB.

### **Results:**

All specifications have been met.

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