

# Certificate of Analysis

**Human Mesenchymal Stem Cell  
Hepatogenic Differentiation Medium**

Catalog No. HUXMX-90101  
Lot Number: T151023G001

Preparation Date: 2015-10-23

Size: 350 ml

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## Kit Components

### Pretreatment Medium

Human Mesenchymal Stem Cell Hepatogenic Differentiation Basal Medium A	50 mL
EGF (Epidermal Growth Factor)	10 µL
bFGF (Basal Fibroblast Growth Factor)	5 µL

### Hepatocyte Differentiation Medium

Human Mesenchymal Stem Cell Hepatogenic Differentiation Basal Medium B	100 mL
HGF (Hepatocyte Growth Factor)	20 µL
bFGF	10 µL
Nicotinamide	100 µL

### Hepatocyte Maturation Medium

Human Mesenchymal Stem Cell Hepatogenic Differentiation Basal Medium C	200 mL
Oncostatin M	40 µL
Dexamethasone	100 µL
ITS+Premix	2 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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