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## Certificate of Analysis

**Mouse Embryonic Stem Cells Growth Medium**

Catalog No. MUXES-90011

Lot Number: 120316c01

Preparation Date: 2012-3-16

Size: 500ml

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### Kit Components

Containing 435 ml of Mouse Embryonic Stem Cells Basal Medium (Cat. No. MUXES-03011-435), 50 ml of Mouse Embryonic Stem Cell-Qualified Fetal Bovine Serum (Cat. No. MUXES -05001-50), 5 ml of L-Glutamine, 5 ml of Penicilin-Streptomycin Solution, 5 ml of Non-essential Amino Acid, 100 ul of LIF and 500 ul of 2-Mercaptoethanol, pH 7.2. Store at 4°C.

### 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 a PCR-based assay and direct culture.

Specification: Results must be negative.

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

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

### Cell culture testing

Each batch of growth medium is tested for its ability to support in vitro growth of Mouse Embryonic Stem Cells. When are cultured in growth medium, cells must demonstrate a doubling time of 20~24 h.

### Results:

All specifications have been met.

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QA Manager

Apr 5, 2012