

# Certificate of Analysis

**Sprague-Dawley Rat Cortical Astrocytes**

Catalog No. SCCAC-00001

Lot Number: 110118F01

Cryopreservation Date: 2011-1-18

Passage Number: 1

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## Viability

Cells are assayed for viability post-thaw using vital staining assay with trypan blue.

Specification: Cells should exhibit  $\geq 80\%$  viability.

## 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  $\leq 25\text{EU/ml}$ .

## Purity

Cells are assayed for purity using immunocytochemical analysis of cell antigen expression after cryopreservation. Cells are immunofluorescently stained with antibodies specific to cell antigens GFAP (astrocyte marker),  $\beta 3$ -tubulin (neuronal marker) and GalC (oligodendrocyte marker).

Specification: Cells must show  $\geq 80\%$  positivity for expression of cell antigens GFAP. Cells must show  $\leq 10\%$  positivity for expression of cell antigens  $\beta 3$ -tubulin and GalC.

## Proliferation Ability

The cells are characterized by their ability to proliferate in culture with an attached well-spread morphology for  $\geq 2$  passages.

**Results:**

Meet all specifications

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