

CSI011Ra01

**Primary Rat Brain Astrocytes (BA)** 

Organism Species: Rattus norvegicus (Rat)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

2nd Edition (Revised in Oct, 2025)

### [ DESCRIPTION ]

Cell Type: Astrocyte

Synonyms: BA

Strain: Sprague Dawley Rat

Age: 1-2 Weeks

**Tissue Source:** Brain **Size:** >5×10<sup>5</sup>cell/vial

### [ PROPERTIES ]

Cell activity: >85% (Viability by Trypan Blue Exclusion).

Formulation: Frozen 1 mL or T25 flask.

Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.

Applications: For research use only. It is not approved for human or animal use, or for application in

clinical diagnostic procedures. **Growth Properties:** Adherent

# [CONTENTS]

**Form & Buffer:** Supplied as solution form in frozen stock solution(Protein-free, Chemical Defined Cell Cryopreservation Medium).

# [USAGE]

Upon receiving the cells in a T-25 flask at room temperature, immediately transfer the cells to 37°C, 5% CO<sub>2</sub> incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

### **Culture conditions:**

DMEM/F12+10% FBS+1% Astrocyte Growth Supplement+1% Penicillin-Streptomycin Solution

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

#### Cell recovery:

After receiving the cells, shake at 37°C in a water bath until completely dissolved, transfer to a 15 ml centrifuge tube, add 3-5 times complete culture solution, 1000 rpm for 5 min, discard the supernatant, and place in a T25 flask for culture.

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### Cell passage:

- 1. Cell passage when cell growth at 85-95%.
- Discard the medium and wash with PBS 1-2 times.
- 3. Add 1 ml of Trypsin at 37°C, observe the cell under the microscope. If the cells are retracted and rounded, pat the culture flask to let the cells fall off. Stop digestion by adding 2 ml of complete medium containing 10% serum. Make it a single cell suspension.
- 4. Add the fresh medium to resuspend the cells. Unless otherwise stated, the recommended ratio of primary cells is 1/2-1/3.

## [Shipping]

Dry ice.

## [STORAGE]

Upon receiving, directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

## [ IMPORTANT NOTE ]

- 1. It is recommended that culture bottles be coated with Collagen type I from rat tail, and the concentration of rat tail collagen coating is 2-5µg/cm<sup>2</sup>.
- 2. The cell is for research use only, and we will not be responsible for any issue if the cell was used in clinical diagnostic or any other procedures.

# [Figure]

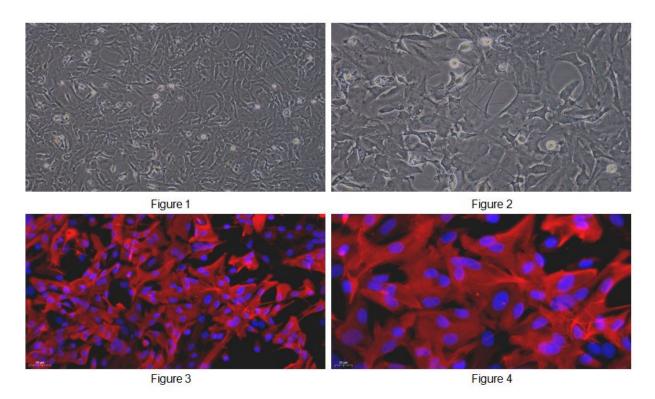




Figure 1 Morphology of Rat Brain Astrocytes (Optical microscope,×100)

Figure 2 Morphology of Rat Brain Astrocytes (Optical microscope,×200)

Figure 3 Immunofluorescence identification of GFAP specific antibody (×200)

Figure 4 Immunofluorescence identification of GFAP specific antibody (×400)