



## Product Sheet

# BT69 (ATCC® CRL-3410™)

### Please read this FIRST



### Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

### Complete Growth Medium

NeuroCult Basal Medium w/ proliferation Supplement + 20 ng/mL EGF + 20 ng/mL  $\beta$ -FGF + 2  $\mu$ g/mL Heparin sulphate. Protect from light and use complete medium within 10 days.

#### NeuroCult NS-A Proliferation Kit (Stem Cell Technologies cat# 5751)

- 450 mL NeuroCult Basal Medium (SCT cat# 5750)
- 50 mL NeuroCult Supplement (SCT cat# 5753)

#### 20 $\mu$ g/mL EGF: use 1 $\mu$ L/1 mL culture

**medium.** To prepare 20  $\mu$ g/mL EGF stock solution, aseptically combine:

- 100  $\mu$ g EGF (PeproTech cat# 100-15)
- 1 mL PBS (ATCC 30-2200)

Then further dilute by adding 4 mL PBS/0.1% BSA

#### 20 $\mu$ g/mL $\beta$ -FGF: use 1 $\mu$ L/1 mL culture

**medium.** To prepare 20  $\mu$ g/mL EGF stock solution, aseptically combine:

- $\beta$ -FGF (PeproTech cat# 100-18B)
- 1 mL 5 mM Tris PH 7.6

Then further dilute by adding 4 mL PBS/0.1% BSA  
Store in working aliquots at -20°C. EGF and  $\beta$ -FGF is stable for 1 year when prepared and stored as directed. Do not repeat freeze thaw.

#### 2 mg/mL Heparin Solution (Stem Cell

#### Technologies cat# 07980): use 1 $\mu$ L/1 mL culture

**medium.** Store solution at 4°C.

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: BT69 (ATCC® CRL-3410™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Organism:** *Homo sapiens*, human

**Tissue:** brain

**Disease:** glioblastoma

**Age:** 59

**Gender:** male

**Morphology:** bright smooth spheres

**Growth Properties:** Aggregate/Suspension

Note: Neurospheres must be mechanically broken up when they get too large (they form ragged edges and dark areas within the neurospheres). Do not dispense cells into single cell suspension during this process, but just reduce in size of clusters to maintain a healthy state.

#### DNA Profile:

Amelogenin: X,Y

CSF1PO: 10,11

D13S317: 11

D16S539: 11,12

D5S818: 12

D7S820: 11,12

THO1: 6

TPOX: 9,11

vWA: 16

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

## Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

## Handling Procedure for Frozen Cells

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes.
4. Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio) and dispense into a 25 cm<sup>2</sup> or a 75 cm<sup>2</sup> culture flask. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the complete growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).
5. Incubate the culture at 37°C in a suitable incubator. A 5% CO<sub>2</sub> in air atmosphere is recommended if using the medium described on this product sheet.

## Handling Procedure for Flask Cultures

The flask was seeded with cells (see specific batch information), grown, and completely filled with medium at



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**Technologies cat# 07980): use 1  $\mu$ L/1 mL culture medium.** Store solution at 4°C.

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ATCC to prevent loss of cells during shipping.

1. Upon receipt, visually examine the culture for macroscopic evidence of any microbial contamination. Using an inverted microscope (preferably equipped with phase-contrast optics), carefully check for any evidence of microbial contamination
2. Incubate the flask in an upright position for several hours at 37°C. After the temperature has equilibrated, aseptically remove the entire contents of the flask and centrifuge at 125 x g for 5 to 10 minutes. Remove shipping medium and save for reuse. Resuspend the cell pellet in 10 mL of this medium.
3. From this cell suspension, remove a sample for a cell count and viability. Adjust the cell density of the suspension to 2-5 x 10<sup>5</sup> viable cells/mL in the shipping medium.
4. Incubate the culture, horizontally, at 37°C in a 5% CO<sub>2</sub> in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure.



### Subculturing Procedure

Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 2.0 X 10<sup>5</sup> cells/mL and maintain between 1.0 X 10<sup>5</sup> and 3.0 X 10<sup>6</sup> cells/mL.

**Medium Renewal:** Add fresh medium every 2 to 3 days (depending on cell density).



### Cryopreservation Medium

Complete culture medium(with or without EGF/ $\beta$ -FGF/Heparin) + 10% DMSO



### Comments

MGMT promoter methylation Methylated, EGFR wild-type, PTEN heterozygous mutant, TP53 wild-type, IDH wild-type



### References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).



### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### ATCC Warranty

ATCC<sup>®</sup> products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC<sup>®</sup> product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)



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