



## Product Sheet

# 1G12 (ATCC® CRL-2827™)

Please read this FIRST



Storage Temp.  
**liquid nitrogen  
vapor phase**

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Biosafety Level  
**1**

### 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

Dulbecco's Modified Eagle's Medium with 4 mM L-glutamine that is modified by ATCC to contain 4.5 g/L glucose and 1.5 g/L sodium bicarbonates supplemented with 1.5 mM L-glutamine, 0.05 mM 2-mercaptoethanol, 10 mM HEPES, 116mg/L L-arginine HCl, 41 mg/L L-asparagine.H2O and 10% heat-inactivated fetal bovine serum

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: 1G12 (ATCC® CRL-2827™)

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

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

**Organism:** *Mus musculus* (B cell); *Mus musculus* (myeloma), mouse (B cell); mouse (myeloma)

**Strain:** CB.17

**Isotype:** IgG1 kappa

**Cell Type:** hybridoma: B lymphocyte; somatic cell hybr

**Morphology:** lymphoblast

**Growth Properties:** suspension

### 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

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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.

**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.

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.

### Subculturing Procedure

**Protocol:** Cultures can be maintained by the addition of fresh medium or replacement of medium.

Alternatively, cultures can be established by centrifugation with subsequent resuspension at 2 to 8 X 10<sup>4</sup> viable cells/ml.

**Interval:** Maintain cell density between 1 X 10<sup>5</sup> and 1 X 10<sup>6</sup> viable cells/ml.

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

### Cryopreservation Medium

#### Cryoprotectant Medium

Complete growth medium supplemented with an additional 10% heat-inactivated fetal bovine serum and



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7.5% DMSO

Cell culture tested DMSO is available as ATCC® Catalog No. 4-X.

### Comments

Animals were immunized with T cells from 3A9 T cell receptor (TCR) transgenic mice. Spleen cells were fused with P3X63Ag8 myeloma cells.

The antibody recognizes the 3A9 T cell receptor (TCR).

### 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

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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)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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