**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**

Leibovitz's L-15 medium with 2 mM L-glutamine supplemented with 0.2 mg/ml G418 and 10% fetal bovine serum. (Note: The L-15 medium formulation was devised for bovine serum.

**Growth Properties:**

Adherent

**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: RTG-P1 (ATCC® CRL-2829™)

**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**

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.
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 cm² or a 75 cm² 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 22°C in a suitable incubator. A free gas exchange with atmospheric air is recommended if using the medium described on this product sheet.

**Subculturing Procedure**

1. Remove and discard culture medium.
2. Briefly rinse the cell layer with 0.25% (w/v) Trypsin - 0.53 mM EDTA solution to remove all traces of serum that contains trypsin inhibitor.
3. Add 2.0 to 3.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach.
4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new culture vessels.

An inoculum of 6 X 10(3) to 1 X 10(4) viable cells/sq. cm is recommended.
6. Incubate cultures at 22°C.

Interval: Maintain cultures at a cell concentration between 1 X 10(4) and 1 X 10(5) cells/sq. cm

Subcultivation Ratio: A subcultivation ratio of 1:3 to 1:4 is recommended

Medium Renewal: Two to three times weekly

**Cryopreservation Medium**

Complete growth medium described above supplemented with 5% (v/v) DMSO.

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

**Comments**

The RTG-2 cell line (ATCC CCL-55) was transfected with a trout Mx1 promoter-luciferase construct and selected to produce a stable cell line, RTG-P1 [PubMed: 15043947]. The vector, pGL3-prMx1-Basic-Neo, expresses the firefly luciferase gene under the control of the promoter for the IFN-induced gene Mx1. The vector contains SV40 viral DNA sequences and the neomycin resistance gene. Luciferase expression is stable and highly induced by polyinosinic:polycytidylic acid (poly I:C) in RTG-P1 cells [PubMed: 15043947]. This cell line can be used to study the activation of the IFN pathway. The RTG-P1 reporter system constitutes an interesting tool to study the induction and regulation of IFN signaling in teleost fish.

**References**

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

**Biosafety Level: 2**

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® 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® 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**

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