



Product Sheet

RHCT-138 (ATCC® CRL-2563™)

Please read this FIRST



Storage Temp.
liquid nitrogen
vapor phase



Biosafety Level
2

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

RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate supplemented with an additional 2 mM L-glutamine, 80%; fetal bovine serum, 20%

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: RHCT-138 (ATCC® CRL-2563™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Organism: *Oryctolagus cuniculus*, rabbit
Disease: cutaneous T cell lymphoma
Cell Type: infected with HTLV-I
Age: 4.5 years
Gender: male
Morphology: lymphoblast
Growth Properties: suspension, multicell aggregates

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 Flask Cultures

Handling Procedure for Flask Cultures

The flask was seeded with cells (see specific batch information), grown, and completely filled with medium at 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 $125 \times g$ 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 5×10^5 viable cells/ml in the shipping medium.
4. Incubate the culture, horizontally, at 37°C in a 5% CO_2 in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure.

Subculturing Procedure

Protocol: Cultures can be maintained by addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension in fresh medium at 5×10^5 viable cells/ml.

Interval: Maintain cultures at cell concentrations between 5×10^5 and 2×10^6 viable cells/ml.

Medium Renewal: Every 2 to 3 days

Cryopreservation Medium

Cryoprotectant Medium

Complete culture medium described above supplemented with 5% (v/v) DMSO.
Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

Comments

The RHCT-138 cell line was derived from a skin biopsy taken from an HTLV-1 infected rabbit (X138) with cutaneous T cell lymphoma (CTCL).
The rabbit developed chronic HTLV-1 infection after inoculation with the infected rabbit T cell line RH/K34 (see ATCC CRL-2560).



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Approximately 20 months after inoculation, the rabbit developed a generalized exfoliative papillated dermatopathy. Cutaneous lesions were biopsied.

The cell line harbors productively infected, monoclonally integrated, full length HTLV-1.

The HTLV-1 sequences in the skin likely represent the presence of infected T cells in epidermotropic lymphoid infiltrates.



References

References and other information relating to this product are available online at 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

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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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