Murine leukemia virus

VR-1413™

Description

Murine leukemia virus strain Rauscher is propagated in NIH/3T3 cells (ATCC CRL-1658). This strain infects mouse embryo fibroblast cultures of FV-1(b) or FV-1(n) strains and SC-1 cells.

Strain designation: Rauscher (biologically cloned)
Deposited As: Murine leukemia virus

Storage Conditions

Product format: Frozen
Storage conditions: -70°C or colder

Intended Use

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

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may 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 vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: NIH/3T3 (ATCC CRL-1658)
mouse cells
Effects: CPE; plaque formation
Temperature: 37°C
Recommendations for infection:

Infect cells when cultures are approximately 60% confluent. Treat with DEAE dextran (25 µg/mL) or Polybrene (8 µg/mL) for 1 hour. Wash the cells with medium or PBS. Inoculate the cell monolayer when still sub-confluent and feed with complete medium. One hour adsorption is recommended. The next day the monolayer is almost confluent. Change the medium at the end of the day. Harvest the supernatant the next morning. The virus is very labile and does not survive long at 37°C. Filter through a 45U filter and quick freeze. Refeed the cells with complete medium and repeat the harvest the next morning. Proceed until the cells eventually

slough off or enough supernatant has been harvested. The virus is cell associated, therefore at the end of the harvest, the cells can be scraped in 3-4 mL medium, frozen and thawed once and spun at 2500 RPM for 20 minutes and the supernatant added to the pool to increase titer. Pool the harvests, aliquot and quick freeze. Note: One T150 flask will produce approximately 100 mL supernatant. Titration has to be done by XC plaque assay on either NIH3T3 or SC-1 cells.

If the inoculum is persistently infected cells, grow the cells and split 1:3 until enough cells are produced. Slow freeze the cells. For titration, use the supernatant from the monolayer. Change the medium the day before , harvest the supernatant and run the XC plaque assay.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Key Abbreviations: 3T3, Contact inhibited mouse line; DMSO, Dimethyl sulfoxide; NIH, National Institutes of Health; SC-1, feral mouse embryo cells; TCID[50], Median tissue culture infective dose

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Murine leukemia virus (ATCC VR-1413)

References

References and other information relating to this material are available at www.atcc.org.

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use. Any proposed commercial use is prohibited without a license from ATCC.

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 or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity

undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure 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 material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at www.atcc.org.

Copyright and Trademark Information

Revision

This information on this document was last updated on 2023-04-08

Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor