



Hybrid Moloney/Amphotropic murine leukemia virus (Mo/A-MuLv)

VR-1450™

Description

Hybrid Moloney/Amphotropic murine leukemia virus (Mo/A-MuLv) 4070A envelope strain is propagated in NIH/3T3 cells (ATCC CRL-1658). This strain was harvested from tk(-) NIH3T3 cells transfected with molecular clone of MLV cells (ATCC VR-1448). Use this virus in your analytical methodologies and pharmaceutical and personal care applications.

Strain designation: 4070A envelope strain

Deposited As: Hybrid Moloney/Amphotropic murine leukemia virus (Mo/A-MuLv)

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

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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)

Effects: No CPE

Complete medium:

DMEM (ATCC 30-2002) + 10% FBS (ATCC 30-2020)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Incubation: 2 to 7 days at 37°C, a 5% CO₂ in air atmosphere is recommended

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Handling Procedures

Mycoplasma contamination: Not detected

Notes

This virus produces plaques on PG-4 (feline S+L-) cell line, and foci of rounded cells on MiCL1 (Mink S+L-) cell line. **Note:** This holding is prepared by growing ATCC® VR-1448 and harvesting the supernatant. At the time of deposit, cell-free preparations of the Mo/A-MuLV strain were considered as suitable reference standards in assays to detect replication competent murine retroviruses. select lots have had titer confirmed by scientists outside the ATCC. Repeated freeze-thaw cycles may significantly reduce virus titer.

Key Abbreviations: bp, Base pairs; CO₂, Carbon dioxide; CPE, Cytopathic effect; DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; MuLV, Murine leukemia virus; NCBI, National Center for Biotechnology Information; NIH3T3, contact-inhibited mouse embryo fibroblast cells PG-4, Feline Moloney sarcoma virus-transform; RT-PCR, reverse-transcriptase polymerase chain reaction; TC, Tissue culture; TCID₅₀, 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: Hybrid Moloney/Amphotropic murine leukemia virus (Mo/A-MuLv) (ATCC VR-1450)

References

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

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Revision

This information on this document was last updated on 2024-09-18

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