



Murine leukemia virus

VR-1350™

Description

Strain designation: E-286

Deposited As: Moloney 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: SC-1 (ATCC CRL-1404)

mouse cells in tissue culture

Effects: There is no visible CPE expected in SC-1 cells (ATCC CRL-1404); focus formation in mouse S(+)L(-) cells; plaques on XC cells (ATCC CCL-165)

Complete medium: McCoy's 5A (ATCC 30-2007) + 5% FBS (ATCC 30-2020)

Temperature: 37°C

Recommendations for infection:

Host cells should be no more than one day post seeding and 20% to 40% confluent. Prior to infection, the host cells should be washed with DPBS or serum-free media then incubated with serum-free pretreatment media (25 µg/mL DEAE-Dextran (MP Biomedical 195133 or equivalent) and McCoy's 5A (ATCC 30-2007)) for one hour at 37°C. Remove pretreatment media and wash twice with DPBS before infecting with inoculum containing McCoy's 5A and 10% FBS (ATCC 30-2020). Infected host cells can be expanded in media containing 10% FBS (ATCC 30-2020). Once cells are 100% confluent, the serum is reduced to 5% FBS (ATCC 30-2020) for 24 hours before collecting the virus present in the cell supernatant.

Incubation: Up to 10 days at 37C in SC-1 cells (ATCC CRL-1404)

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Ecotropic (NB-tropic) MuLV. See Hartley, J.W. and W.P. Rowe (J. Virol. 65: 128, 1975) for information on propagation in SC-1 cells.

Key Abbreviations: D-56, Murine cells (S+L-); FFU, focal forming units; NIH, National Institutes of Health; Pen, Penicillin; PFU, Plaque forming units; SC-1, feral mouse embryo cells; Strep, Streptomycin; XC, rat sarcoma cell line

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-1350)

References

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

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