



Xenotropic murine leukemia virus

VR-1447™

Description

Xenotropic murine leukemia virus strain pNFS Th-1 is maintained in persistently infected Mink lung cells, which were originally transfected with molecularly cloned virus. This viral strain was isolated from the thymus of a 5 and a half-month-old NFS Swiss mouse.

Strain designation: pNFS Th-1

Deposited As: MuLv

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

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: This virus is continuously produced by the cell line in which it is shipped. No additional host is required, however, if desired the virus may be used to infect other cells, which are listed as alternate hosts. Alternate hosts include mink lung cells, many non-murine cells, *Mus dunni* cells.

Effects: No CPE

Complete medium: EMEM (ATCC 30-2003) + 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

Handling Procedures

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Product Sheet

Mycoplasma contamination: Not detected

Notes

Typical murine type C retrovirus. Although derived from endogenous sequences of inbred mice, it does not exogenously infect mouse cells, except certain cells of wild mouse origin such as *Mus dunni* cells (ATCC CRL-2017). This virus produces plaques on PG-4 (feline S+L-) cell line, and foci of rounded cells on MiCL1 (Mink S+L-) cell line.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; M. dunni, Mus dunni; Mv-1 Lu, Mink lung cells; MuLV, Murine leukemia virus; NFS, an inbred line of the low-tumor-incidence NIH Swiss mouse; pNFS Th-1, Molecularly cloned NFS Th-1 and transfected in mink lung cells

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Xenotropic murine leukemia virus (ATCC VR-1447)

References

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

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