



Product Sheet

Feline immunodeficiency virus (ATCC® VR-2333™)

Please read this FIRST





Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Feline immunodeficiency virus (ATCC® VR-2333™)

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

Strain: NCSU1

Classification: *Retroviridae*, *Lentivirus*

Depositor: WAF Tompkins, North Carolina State University

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Propagation

Propagation Host:

MYA-1 cells (ATCC® CRL-2417™)

Effect on Host:

CPE, syncytia and cell lysis

Medium:

RPMI-1640 medium (ATCC® 30-2001™) + 10% FBS (ATCC® 30-2020™) + 0.025 mM 2-ME (Gibco™ 21985-023) + 100 units/mL IL-2 (Gibco™ PHC0021)

Growth Conditions

Temperature: 37°C

Recommendations for Infection: For best results, pre-treat cells with 25 µg/mL DEAE-Dextran (MP Biomedicals 02195133) for 30 minutes at 23°C. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm²). Add virus dilution to host cells and rock or gently vortex every 15-20 minutes for the first 1-2 hours of incubation at 37°C. Re-suspend cells at an appropriate density. Incubate at 37°C in a humidified 5% CO₂ atmosphere.

Incubation: 12-21 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 80% of the culture.

Comments

This item is highly infectious *in vivo* and produces a rapid inversion of the CD4+/CD8+ receptor ratio in infected cats. Viral reverse transcriptase is Mg-dependent.

References

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

Key Abbreviations

°C, degrees Celsius

CO₂, carbon dioxide

2-ME, 2-Mercaptoethanol

CD4+/CD8+, Cluster of differentiation 4+/8+

CPE, Cytopathic effect

DEAE-Dextran, Diethylaminoethyl-Dextran

FBS, Fetal bovine serum

IL-2, Interleukin-2

MYA-1, A T lymphoblastoid cell line established from blood mononuclear cells from a specific pathogen free cat

NCSU1, North Carolina State University 1

RPMI-1640, A Roswell Park Memorial Institute medium formulation

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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Storage Temp.
-70°C or colder



Biosafety Level
2

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The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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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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