ATCC

Product Sheet

Bovine viral diarrhea virus 1 (ATCC® VR-1561™)

Please read this FIRST

Storage Temp.
-70°C or colder

Biosafety Level
2

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: Bovine viral diarrhea virus 1 (ATCC® VR-1561™)

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: New York 1
Classification: Flaviviridae, Pestivirus
Common Name: Bovine viral diarrhea virus 1
Original Source:
Spleen from calf with diarrhea, New York, 1948
Depositor: M Snyder, GA Erickson, The National Animal Disease Center

Batch-Specific Information

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

Propagation

Propagation Host: BT (ATCC CRL-1390)

Effect on Host: No CPE, detect by immunofluorescence or molecular-based procedures

Medium:
Virus growth medium: EMEM (ATCC 30-2003) + 10% horse serum (ATCC 30-2040)

Growth Conditions
Temperature: 37°C
Recommendations for Infection: Plate cells 24-48 hours prior to infection and infect when cultures are 60% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm^2) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO_2 atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.
Incubation: 4-21 days

Comments

Passage infected cells for optimal propagation of virus.

References

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

Key Abbreviations

BT, bovine turbinate
BVDV (BVD), Bovine Viral Diarrhea Virus
CO_2 (CO2), carbon dioxide
EMEM, Eagles Minimum Essential Medium
FA, fluorescent antibody
mL, milliliter
PBS, phosphate buffered saline
RT-PCR, reverse transcriptase-polymerase chain reaction
TC, tissue culture
$TCID_{50}$(TCID[50]), The Tissue Culture Infectious Dose
50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.
VMRD, Veterinary Medical Research and Development

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.

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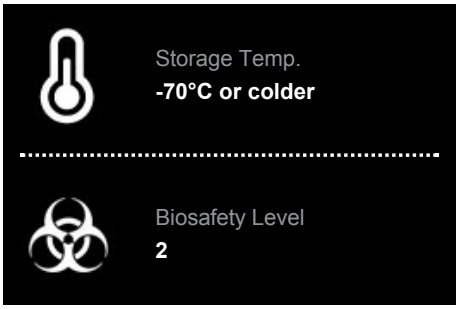

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ATCC Warranty

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

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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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