Bovine respiratory syncytial virus (ATCC® VR-1339™)

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 respiratory syncytial virus (ATCC® VR-1339™)

Propagation

Propagation Host:
BT Cells (ATCC® CRL-1390™)

Effect on Host:
CPE (syncytia, cell rounding, and sloughing)

Medium:
DMEM (ATCC® 30-2002™) + 2% Horse Serum (ATCC® 30-2040™)

Growth Conditions

Temperature: 37°C

Recommendations for Infection: For best results, infection should be performed on a 80-90% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm²). Wash monolayer with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 4-7 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 70% of the monolayer.

Mildly pathogenic for young calves. Titer of frozen virus decrease with prolonged storage; virus can be recovered by using large volumes of inoculum. Lyophilized virus may be more stable. Replicates poorly in MDBK cells. ATCC trials indicate titer of frozen virus remains unchanged after three years at -80°C.

References

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

Key Abbreviations

BT, bovine turbinate cells
CPE, cytopathic effect
MDBK, bovine kidney cells
TC, tissue culture
TCID[50], median tissue culture infective dose

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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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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