Product Sheet

Porcine rotavirus (ATCC® VR-893™)

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: Porcine rotavirus (ATCC® VR-893™)

Description

Strain: OSU (attenuated)
Classification: Reoviridae, Rotavirus
Original Source:
clinical specimen - animal
Ohio, United States
Depositor: LJ Saif

Batch-Specific Information

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

Propagation

Propagation Host:
Recommended Host: MA-104 cells (ATCC CRL-2378.1)
Effect on Host:
Yes, in vitro effects: Cytopathic effects, some initial rounding followed by degeneration of cells and eventual sloughing
CPE, some initial rounding followed by degeneration of cells and eventual sloughing

Growth Conditions

Temperature: 37.0°C
Duration: 1-4 days; 5% CO₂ in air atmosphere is recommended; For best results cells should be 24 to 48 hours old and 90-100% confluent.

Protocol:
This rotavirus should be grown in the presence of trypsin or pancreatin and NO serum should be used. Preliminary trials in gnotobiotic pigs indicate that this preparation is attenuated, but no back passages have been done. Cross-reacts with group A rotaviruses from other species. Heat labile (56°C, 30min.). Stable at pH 3.0 and to ether.

Comments

This rotavirus should be grown in the presence of trypsin or pancreatin and NO serum should be used. Preliminary trials in gnotobiotic pigs indicate that this preparation is attenuated, but no back passages have been done. Cross-reacts with group A rotaviruses from other species. Heat labile (56°C, 30min.). Stable at pH 3.0 and to ether.

References

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

Key Abbreviations

AB, antibody
O₂ (CO₂), carbon dioxide
CPE, cytopathic effect
EMEM, Eagles minimum essential medium
FA, fluorescent antibody
FBS, fetal bovine serum
FITC, fluorescein isothiocyanate
IgG, Immunoglobulin type G
J. Infect. Dis., Journal of Infectious Diseases
MA-104, embryonic rhesus monkey kidney cells
MDBK, bovine kidney cells
min, minute
mL, milliter
MS, mouse
OSU, Ohio State University herd
PBS, phosphate buffered saline
PK, pig kidney
Pr, primary
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.
mg, microgram
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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

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.
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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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