Porcine reproductive and respiratory syndrome virus (ATCC® VR-2332™)

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 reproductive and respiratory syndrome virus (ATCC® VR-2332™)

Description
Strain: BIAH-001
Classification: Arteriviridae, Arterivirus
Original Source: Combined tissues obtained from a SIRS infected piglet
Depositor: Boehringer Ingelheim Corp.

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

Propagation
Propagation Host:
MA-104 Clone 1 cells (ATCC® CRL-2378.1™)
Effect on Host:
CPE, cell rounding and sloughing. CPE progresses rapidly once it starts.

Medium:
EMEM (ATCC® 30-2003™) + 5% FBS (ATCC® 30-2020™)

Growth Conditions
Temperature: 35°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 35°C, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 2-5 days at 35°C in a humidified atmosphere, until CPE is progressed through 80% of the monolayer.

Virus may cause disease in swine, specifically respiratory disease and stillbirth in pregnant sows. The virus is a fastidious, non-hemagglutinating enveloped RNA virus. It is heat labile and grows best at 34°C to 35°C. Media should be equilibrated in a 5% CO₂ incubator overnight before use. Once fed, virus must be kept in sealed flask or container that prevents further exchange of CO₂ with culture. Inoculate 80-90% confluent monolayer of cell.

Note: This material is cited in a U.S. and/or other Patent and may not be used to infringe the patent claims.

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

Key Abbreviations
°C, degrees Celsius
CPE, cytopathic effect
EMEM, Eagle’s minimum essential medium
FBS, fetal bovine serum
PBS, phosphate buffered saline
RNA, ribonucleic acid
SIRS, Swine infertility and respiratory syndrome

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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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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