ATCC

Product Sheet

Rat coronavirus (ATCC® VR-1410™)

Please read this FIRST

Storage Temp.
Store at -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: Rat coronavirus (ATCC® VR-1410™)

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: 8190
Classification: Nidovirales, Coronaviridae, Coronavirus,Group 2
Common Name: Rat coronavirus
Original Source:
Lungs of rat
Depositor: DJ Gaertner

Batch-Specific Information

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

Propagation

Propagation Host:
L2 cells (ATCC CCL-149)
Recommended Host: L2 (Percy) (ATCC® CCL-81)
rat; mouse; L2 cells; primary rat kidney cells

Effect on Host:
Yes, in vitro effects: Causes large syncytia in L2 or PRK cells
Yes, in vivo effects: respiratory distress and death in suckling rats

Medium:
50% Virus growth medium: EMEM (ATCC® 30-2003) 45% MEMH + 5% FBS (ATCC® 30-2020)

Growth Conditions
Temperature: 37°C
Recommendations for Infection: Plant cells 24 hours in advance and infect when cultures are 80-90% confluent. Remove medium and rinse cell sheet with 1X DPBS. Remove 1X DPBS and then inoculate with a small volume (e.g. 1 mL per 25 cm^2) of virus diluted to provide a MOI of about 0.01. Adsorb for 1 hour at 37°C in a humidified 5% CO_2 atmosphere. End adsorption by adding virus growth medium.
Incubation: Incubate infected culture for 2 days at 37°C in a humidified 5% CO_2 atmosphere, until CPE are well advance through 90% of the culture.

Comments

This isolate was deposited to ATCC after five passages in weanling mice and two passages in suckling mice. It was adapted to growth in cell culture by three passages in Vero cells (ATCC® CCL-81).

References

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

Key Abbreviations

°C, degrees Celsius
CO_2 (CO_2), carbon dioxide
CPE, cytopathic effect
EMEM, Eagles Minimal Essential Medium
mL, milliliter
MOI, multiplicity of infection
DPBS, Dulbeccos Phosphate Buffered Saline

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09/2011, KKJ/ MJA

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

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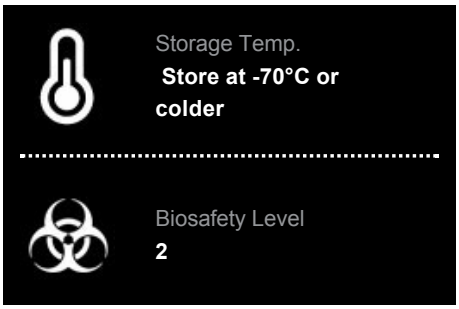

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Institutes for Health.

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.

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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