




Product Sheet


# Rat coronavirus (ATCC® VR-1410™)

Please read this **FIRST**



Storage Temp.  
**Store at -70°C or colder**

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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](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
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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<sup>2</sup>) of virus diluted to provide a MOI of about 0.01. Adsorb for 1 hour at 37°C in a humidified 5% CO<sub>2</sub> atmosphere. End adsorption by adding virus growth medium.

**Incubation:** Incubate infected culture for 2 days at 37°C in a humidified 5% CO<sub>2</sub> 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](http://www.atcc.org).

## Key Abbreviations

°C, degrees Celsius

CO<sub>2</sub> (CO<sub>2</sub>), 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 Institutes for Health.*



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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

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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