



Product Sheet

# Avian coronavirus (ATCC® VR-22™)

Please read this **FIRST**

	Storage Temp. <b>-70°C or colder</b>
	Biosafety Level <b>2</b>

## 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: Avian coronavirus (ATCC® VR-22™)

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  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain:** Egg-adapted (Michigan State Univ. Repos. Code 42)  
**Classification:** Coronaviridae, Gammacoronavirus  
**Common Name:** Infectious bronchitis virus (IBV)  
**Original Source:**  
Specimen from chicks with naturally occurring disease, New Jersey, 1935  
**Depositor:** CH Cunningham

## Batch-Specific Information

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

## Propagation

**Propagation Host:**  
10 day chicken embryo, i.a. inoculation  
**Host of Choice:** CE (10 day, i.a.)  
**Host Range:** CE, CAM and CEK TC  
chicken embryo (chorioallantoic membrane); chicken embryonic kidney cells in tissue culture  
**Effect on Host:**  
Yes, in vivo effects: death of chicken embryo  
Death of CE  
Yes, in vitro effects: syncytia in chicken embryo kidney tissue culture

## Growth Conditions

Duration: 1-2 days at 37C, via allantoic route

## Comments

Pathogenic only for chick embryo; produces no sign of disease in natural host or other animals. No antigenic relationship to other avian viruses; infectivity neutralized by antibodies from natural infection or from birds infected with virus still capable of producing signs of infection and antibodies. For passage in eggs, clarify sample and use supernatant fluid for inoculum via allantoic cavity. Chill eggs for harvest when one or two embryos are dead and the remainder are weak or sluggish. Reported to cause syncytia CPE in CEK TC with subsequent necrosis of cells.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Key Abbreviations

CAM, chorioallantoic membrane  
CE, chicken embryo  
CEK, chicken embryo kidney  
CPE, cytopathic effect  
i.a., intraallantoic  
LD[50], median lethal dose  
TC, tissue culture

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## 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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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](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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