



# Avian coronavirus

VR-22™

## Description

**Strain designation:** Egg-adapted (Michigan State Univ. Repos. Code 42)

**Common name:** Infectious bronchitis virus (IBV)

**Deposited As:** Infectious bronchitis virus

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is

important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** 10 day chicken embryo, i.a. inoculation; Host Range: CE, CAM and CEK TC [chicken embryo (chorioallantoic membrane); chicken embryonic kidney cells in tissue culture]

**Effects:** death of host animal; syncytia in chicken embryo

**Temperature:** 37°C

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

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Pathogenic only for chick embryo; produces no sign of disease in natural host or

**VR-22**

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.

**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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**Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: Avian coronavirus (ATCC VR-22)

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**References**

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

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