

### Avian Infectious Bronchitis Virus, Massachusetts

Catalog No. NR-444

**For research use only. Not for human use.**

NR-444 did not pass the BEI Resources quality control Sterility Test. Please see the Certificate of Analysis to determine whether or not this product is acceptable for your intended use.

#### Contributor:

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#### Product Description:

Virus Classification: *Coronaviridae*, *Coronavirus*, Group 3

Species: Avian infectious bronchitis virus (IBV)

Strain: Massachusetts

Original Source: Avian IBV, Massachusetts was isolated from the respiratory tract of a 19-day-old chicken with mild respiratory disease.<sup>1</sup>

Comment: Avian IBV is the type species for the *Coronavirus* genus.

#### Material Provided:

Each vial contains approximately 1 mL of allantoic fluid from chicken embryos infected with the Massachusetts strain of avian IBV.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

#### Packaging/Storage:

NR-444 was packaged in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

#### Growth Conditions:<sup>2</sup>

Host: 10-day-old specific-pathogen free chicken embryos

Inoculation: Chorioallantoic sac

Incubation: 2 to 6 days at 37°C

In Vivo Effect: Curling, stunting, and possible death of embryo

Note: Avian IBV cross reacts serologically with turkey coronavirus antibodies.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID,

NIH: Avian Infectious Bronchitis Virus, Massachusetts, NR-444."

#### Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see [www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm).

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#### References:

1. Cunningham, C. H. "Symposium on Immunization against Infectious Bronchitis Virus. I. Some Basic Properties of Infectious Bronchitis Virus." *Am. J. Vet. Res.* 18 (1957): 648-654. PubMed: 13444588.
2. Ismail, M. M., et al. "Antigenic and Genomic Relatedness of Turkey-Origin Coronaviruses, Bovine Coronaviruses,

- and Infectious Bronchitis Virus of Chickens.” *Avian Dis.* 45 (2001): 978-984. PubMed: 11785902.
3. Loa, C. C., et al. “Differential Detection of Turkey Coronavirus, Infectious Bronchitis Virus, and Bovine Coronavirus by a Multiplex Polymerase Chain Reaction.” *J. Virol. Methods* 131 (2006): 86-91. PubMed: 16137773.

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