

Genomic RNA from Avian Coronavirus, Massachusetts (formerly Avian Infectious Bronchitis Virus)

Catalog No. NR-49096

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Genomic RNA was extracted from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with the Massachusetts strain of avian coronavirus [formerly avian infectious bronchitis virus (IBV)].¹ Avian IBV, Massachusetts was isolated in 1941 from the respiratory tract of a 19-day-old chicken with mild respiratory disease.^{2,3} The complete genome of avian IBV, Massachusetts has been sequenced (GenBank: [GQ504724](#)).⁴

NR-49096 has been qualified for PCR applications by amplification of an approximately 1020 base pairs of the envelope gene. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

Material Provided:

Each vial contains approximately 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-49096 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic RNA from Avian Coronavirus, Massachusetts (formerly Avian Infectious Bronchitis Virus), NR-49096.”

Biosafety Level: 1

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. ICTV Taxonomy History for Avian Infectious Bronchitis Virus
2. 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.
3. Wertheim, J. O., et al. “A Case for the Ancient Origin of the Coronaviruses.” [J. Virol.](#) 87 (2012): 7039-7045. PubMed: 23596293.
4. Phillips, J. E., et al. “Changes in Nonstructural Protein 3 are Associated with Attenuation in Avian Coronavirus Infectious Bronchitis Virus.” [Virus Genes](#) 44 (2012): 63-74. PubMed: 21909766.

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