Avian Infectious Bronchitis Virus (IBV), Massachusetts, Chemically Inactivated

Catalog No. NR-450

For research use only. Not for human use.

Contributor:

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Product Description:

Virus Classification: *Nidovirales, Coronaviridae*, *Coronavirus*, Group 3
Agent: Avian infectious bronchitis virus (IBV), chemically inactivated
Strain: Massachusetts
Original Source: Respiratory tract of 19-day-old chickens with mild respiratory disease[1]
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. The allantoic fluid was treated with binary ethyleneimine to inactivate the virus.

Packaging/Storage:

NR-450 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Growth Conditions Prior to Inactivation:[2]

Host: 10-day-old specific-pathogen free chicken embryos
Inoculation: Chorioallantoic sac
Incubation: 2 to 4 days
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 (IBV), Massachusetts, Chemically Inactivated, NR-450."

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.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): 8691. PubMed: 16137773.

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