Avian Coronavirus, Massachusetts (formerly Avian Infectious Bronchitis Virus)

Catalog No. NR-43284
Derived from BEI Resources NR-444

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Coronaviridae, Gammacoronavirus
Species: Avian coronavirus [formerly avian infectious bronchitis virus (IBV)]
Strain/Isolate: Massachusetts
Original Source: Avian coronavirus (CoV), Massachusetts was isolated in 1941 from the respiratory tract of a 19-day-old chicken with mild respiratory disease.1,2
Comments: The virus name on the label reflects previous nomenclature. NR-43284 was derived from BEI Resources NR-444 by removal of contaminating bacteria and fungi. NR-444 is no longer available. The complete genome of Avian CoV, Massachusetts has been sequenced (GenBank: GQ504724).3

Avian coronavirus (CoV) is a single-stranded, positive-sense RNA virus that is the leading cause of infectious disease-related economic loss in the poultry industry in the USA.4 Avian CoV causes infectious bronchitis in domestic chickens, which primarily affects the respiratory system; but manifestations of the disease are also seen in the renal and reproductive systems.5 Many serotypic variants of Avian CoV exist worldwide, making diagnosis and disease prevention a challenging task.4

Material Provided:
Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with avian coronavirus, Massachusetts.

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

Packaging/Storage:
NR-43284 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. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:
Host: 9- to 11-day-old SPF embryonated chicken eggs
Infection: Embryonated chicken eggs must be candled to confirm viability prior to inoculation
Incubation: 3 days at 37°C in a humidified chamber

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Avian Coronavirus, Massachusetts, NR-43284.”

Biosafety Level: 2

Disclaimers:
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References:

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