

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-44162**

# Bordetella bronchiseptica, Strain E012

# Catalog No. NR-44162

# For research use only. Not for human use.

#### Contributor:

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## Manufacturer:

**BEI Resources** 

# **Product Description:**

Bacteria Classification: Alcaligenaceae, Bordetella

Species: Bordetella bronchiseptica

Strain: E012

Original Source: Bordetella bronchiseptica (B. bronchiseptica), strain E012 was isolated in 1977 from a human sample in Arizona, USA. 1,2

<u>Comments</u>: The complete genome sequence of *B. bronchiseptica*, strain E012 has been sequenced (GenBank: <u>JGWX00000000</u>).<sup>2</sup>

*B. bronchiseptica* is a Gram-negative motile coccobacillus that is known to colonize the respiratory tract of a large number of animals. It is an emerging opportunistic pathogen that has been linked to invasive infections among immunocompromised patients. The severity of a *B. bronchiseptica* infection can range from long-term asymptomatic carriage in the upper respiratory tract to fatal pneumonia.<sup>3-5</sup>

#### **Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

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

# Packaging/Storage:

NR-44162 was packaged aseptically in 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:**

Media:

Tryptic Soy broth or Brain Heart Infusion broth or Bordet Gengou broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or Bordet Gengou agar or equivalent Incubation:

Temperature: 37°C

Atmosphere: Aerobic with or without 5% CO<sub>2</sub>

## Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth.
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tube, slant and/or plate at 37°C for 2 to 7 days.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Bordetella bronchiseptica*, Strain E012, NR-44162."

# 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, 2009; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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license is required. U.S. Government contractors may need a license before first commercial sale.

### References:

- 1. Harvill, E. T., Personal Communication.
- Register, K. B., et al. "Draft Genome Sequences of 53 Genetically Distinct Isolates of Bordetella bronchiseptica Representing 11 Terrestrial and Aquatic Hosts." Genome Announc. 23 (2015): e00152-15. PubMed: 25908122.
- Garcia-de-la-Fuente, C., et al. "Microbiology and Clinical Aspects of Respiratory Infections Associated with Bordetella bronchiseptica." <u>Diagn. Microbiol. Infect. Dis.</u> 82 (2015): 20-25. PubMed: 25703895.
- Yacoub, A. T., et al. "Bordetella bronchiseptica in the Immunosuppressed Population – a Case Series and Review." Mediterr. J. Hematol. Infect. Dis. 6 (2014): e2014031. PubMed: 24804004.
- Buboltz, A. M., et al. "Role of the Type III Secretion System in a Hypervirulent Lineage of Bordetella bronchiseptica." Infect. Immun. 77 (2013): 3969-3977. PubMed: 19596779.

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