

Product Information Sheet for NR-44164

SUPPORTING INFECTIOUS DISEASE RESEARCH

Bordetella bronchiseptica, Strain E014

Catalog No. NR-44164

For research use only. Not for human use.

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Alcaligenaceae, Bordetella

Species: Bordetella bronchiseptica Strain: E014 (also referred to as D6262)

Original Source: Bordetella bronchiseptica bronchiseptica), strain E014 was isolated in 1976 from a human sample in California, USA. 1,2

Comments: The complete genome sequence of B. strain E014 has bronchiseptica, been sequenced (GenBank: JGWZ00000000).2

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. $^{\!\!\!\!^{3\text{-}5}}$

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-44164 was packaged aseptically in cryovials. 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% CO₂

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 2. 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.
- Incubate the tube, slant and/or plate at 37°C for 2 to 4. 7 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Bordetella bronchiseptica, Strain E014, NR-44164."

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. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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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." <u>Infect. Immun.</u> 77 (2013): 3969-3977. PubMed: 19596779.

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