

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-42450

Bordetella pertussis, Strain STO1-CHOC-0008

Catalog No. NR-42450

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Alcaligenaceae, Bordetella

<u>Species</u>: Bordetella pertussis <u>Strain</u>: STO1-CHOC-0008

<u>Original Source</u>: Bordetella pertussis (B. pertussis), strain STO1-CHOC-0008 was isolated in 2010 from a nasopharyngeal swab of a patient with whooping cough in Orange County, California, USA.¹

<u>Comments</u>: The complete genome of *B. pertussis*, strain STO1-CHOC-0008 has been sequenced (GenBank: AXRV02000000).²

B. pertussis is a Gram-negative, fastidious, non-motile coccobacilli that is a highly contagious, exclusively human pathogen. It is the causative agent of pertussis (whooping cough), an acute upper respiratory tract infection characterized by coughing fits (paroxysms), a whooping noise heard in the subsequent inspiration following a paroxysm and prolonged clinical course lasting for several weeks. Infection in adolescents and adults is typically mild; however, in children, particularly young infants, infection can be severe and sometimes deadly.³⁻⁵

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Bordet Gengou 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-42450 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:

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Media:

Liquid Stainer Scholte with Heptakis broth or Bordet Gengou

broth or equivalent

Regan Lowe agar or Bordet Gengou agar (with or without 10% defibrinated sheep blood) or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic with or without 5% CO₂

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.
- Incubate the tube (with shaking)¹, 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 pertussis, Strain STO1-CHOC-0008, NR-42450."

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.

Disclaimers:

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References:

- 1. Harvill, E., Personal Communication.
- Harvill, E. T., et al. "Genome Sequences of 28 Bordetella pertussis U.S. Outbreak Strains Dating from 2010 to 2012." <u>Genome Announc.</u> 1 (2013): e01075-13. PubMed: 24356839.
- Friedman, R. L. "Pertussis: the Disease and New Diagnostic Methods." <u>Clin. Microbiol. Rev.</u> 1 (1998): 365-376. PubMed: 2906814.
- Mattoo, S. and J. D. Cherry. "Molecular Pathogenesis, Epidemiology, and Clinical Manifestations of Respiratory Infections due to *Bordetella pertussis* and other *Bordetella* Subspecies." <u>Clin. Microbiol. Rev.</u> 18 (2005): 326-382. PubMed: 15831828.
- Sabella, C. "Pertussis: Old Foe, Persistent Problem." <u>Cleve. Clin. J. Med.</u> 72 (2005): 601-608. PubMed: 16044656.

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NR-42450_06MAY2015