**Bordetella pertussis**, Strain STO1-SEAT-0004

Catalog No. NR-42451

For research use only. Not for human use.

Contributors:
Eric Harvill, Professor of Microbiology and Infectious Disease, Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, University Park, Pennsylvania, USA

Manufacturer:
BEI Resources

Product Description:
**Bacteria Classification:** Alcaligenaceae, Bordetella

**Species:** Bordetella pertussis

**Strain:** STO1-SEAT-0004

**Original Source:** Bordetella pertussis (B. pertussis), strain STO1-SEAT-0004 was isolated in 2011 from a nasopharyngeal swab of a patient with whooping cough in Seattle, Washington, USA.

**Comments:** The complete genome sequence of B. pertussis, strain STO1-SEAT-0004 has been sequenced (GenBank: AXSJ00000000).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

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Bordet Gengou broth supplemented with 10% glycerol.

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

**Packaging/Storage:**
NR-42451 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:**
- 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)1 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.
4. 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-SEAT-0004, NR-42451.”

**Biosafety Level:** 2


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References:

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