**Bordetella pertussis, Strain I176**

**Catalog No. NR-42463**

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: Acaligenaceae, Bordetella*

*Species:* Bordetella pertussis

*Strain:* I176

*Original Source:* Bordetella pertussis (B. pertussis), strain I176 was isolated in 2012 from a nasopharyngeal swab of a patient with whooping cough in Washington, USA.¹

*Comments:* The complete genome sequence of B. pertussis, strain I176 has been sequenced (GenBank: AXSG00000000).²

*B. pertussis* is a Gram-negative, fastidious, non-motile cocobacilli 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.³⁴⁵

**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-42463 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 Low 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 I176, NR-42463.”

**Biosafety Level:** 2


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References:

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