Bordetella pertussis, Strain I176

Catalog No. NR-42463

For research use only. Not for use in humans.

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Manufacturer: BEI Resources

Product Description:
Bacteria Classification: Alcaligenaceae, 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 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.³,⁴,⁵

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 15% rabbit serum)³ 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, 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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