**Bordetella holmesii, Strain H643**

**Catalog No. NR-44173**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

<table>
<thead>
<tr>
<th>Bacteria Classification:</th>
<th>Alcaligenaceae, Bordetella</th>
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<tbody>
<tr>
<td><strong>Species:</strong></td>
<td><em>Bordetella holmesii</em></td>
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<tr>
<td><strong>Strain:</strong></td>
<td>H643 (also referred to as CDC-H643-BH)</td>
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*H643 was isolated in 2010 from blood of a patient with bacteremia in Pennsylvania, USA.*

**Comments:** The complete genome sequence of *B. holmesii*, strain H643 has been sequenced (GenBank: JGWD00000000).

*B. holmesii* is a Gram-negative, fastidious, non-motile coccobacilli that produces a brown soluble pigment and is closely related to *Bordetella pertussis*. It is an emerging opportunistic pathogen that has been linked to invasive infections among immunocompromised patients, particularly those lacking splenic function. In healthy individuals, it can cause respiratory disease, including a pertussis-like illness.

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

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

**Packaging/Storage:**
NR-44173 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:**

<table>
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<th><strong>Media:</strong></th>
<th>Tryptic Soy broth or Brain Heart Infusion broth or Bordet Gengou broth or equivalent</th>
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<tr>
<td><strong>Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or Bordet Gengou agar or equivalent</strong></td>
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**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 holmesii*, Strain H643, NR-44173.”

**Biosafety Level: 2**

**Disclaimers:**
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References:
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2. Weyant, R. S., et al. “Bordetella holmesii sp. nov., a New
Gram-Negative Species Associated with Septicemia.” J.
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Pulsed-Field Gel Electrophoresis to Characterize

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