Fimbrial Proteins 2 and 3 from *Bordetella pertussis*

**Catalog No. NR-34573**
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**Contributor:**
BEI Resources

**Manufacturer:**
List Biological Laboratories, Inc.

**Product Description:**
Fimbrial proteins 2 and 3 (FIM 2/3) were purified from a W28-derived strain of *Bordetella pertussis* (*B. pertussis*).

*B. pertussis* fimbriae are long filamentous protrusions which extend from the cell surface and facilitate a variety of binding capabilities. They contain both major and minor subunits, with the major units forming the fimbrial strands and the minor subunit considered an adhesion. The fimbriae elicit protective immune responses and are therefore included in some acellular pertussis vaccines.

*B. pertussis* produces two distinct types of fimbriae using the major subunits expressed from the *fim2* and *fim3* genes and the minor fimbrial subunit, encoded by *fimD*. The level of expression of the major subunits of fimbriae determines the serotype, which can be Fim2, Fim3 or Fim2/3.

**Material Provided:**
Each vial of NR-34573 contains 50 µg of lyophilized FIM 2/3 sealed under vacuum. In order to recover the contents of the vial, reconstitute with 0.25 mL of molecular grade water containing at least 0.05% Tween 20. In addition to the Tween 20, the buffer will contain 10 mM Tris-HCl (pH 8.0), 150 mM NaCl and 0.1% sucrose.

**Storage:**
NR-34573 is shipped on frozen ice bricks and should be stored at -20°C or colder prior to reconstitution. Reconstituted FIM 2/3 should be stored at -60°C or colder. Repeated freezing and thawing or maintaining reconstituted product at 2°C to 8°C for extended periods of time is not recommended. Handle the product gently. DO NOT VORTEX.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Fimbrial Proteins 2 and 3 from *Bordetella pertussis*, NR-34573.”

**Biosafety Level:** 1

**Disclaimers:**
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**References:**

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