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Product #186

CERTIFICATE OF ANALYSIS  
FIMBRIAE 2/3  
from *Bordetella pertussis*  
Lot #1863A1

**Contents**

Each vial, when reconstituted with 250  $\mu$ l of water, contains 50  $\mu$ g of purified native Fimbriae 2/3 from *Bordetella pertussis* in 0.01 M Tris, 0.15 M NaCl, pH 8.0 and 0.1% Sucrose. In order to recover the contents of the vial, the reconstitution solution must contain at least 0.05% TWEEN 20. **Handle the product gently, do not vortex.**

**Concentration**

Protein concentration is determined using a micro Lowry assay with Peterson's modification, and bovine serum albumin for the standard.<sup>1</sup>

**Purity/Identity**

When examined on 12% SDS-polyacrylamide gels, this protein migrates as a single major band with an apparent molecular weight of 21,000 Da. Densitometric analysis indicates that the purity is >95%.

In Dot Blot assays, this product reacts with anti-Fimbriae 2 and anti-Fimbriae 3 antibodies, but not with anti-Pertactin, anti-FHA or anti-Pertussis Toxin S1 antibodies.

**Toxicity**

Fimbriae 2/3 is not known to be toxic and is a component of several acellular pertussis vaccines in the amount of 5  $\mu$ g per injection.<sup>2</sup>

**Packaging/Storage**

This product is supplied as a lyophilized powder sealed under vacuum. Store at 2-8°C prior to reconstitution and at  $\leq$ -65°C following reconstitution. Repeated freezing and thawing or maintaining the product at 2-8°C for extended periods of time is not recommended.

**Handling**

Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses. Nitrile gloves are recommended for use when handling lyophilized material.

This product is intended for research purposes only. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc., is not liable for any damages resulting from the misuse or handling of this product.

(continued)

Product #186, Lot #1863A1

**FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE.**

**References**

1. Peterson, G.L., *Analytical Biochemistry*, **83**, 346, 1977.
2. Poolman, J.T. and Hallander, H.O., *Expert Rev. Vaccines*, **6**, 47, 2007.

Production: KO Date: 11/8/13 Management: NS Date: 4/7/13 QA/QC: EP Date: 11/7/13