



540 Division Street, Campbell, California 95008-6906
 Tel. (408) 866-6363 Fax (408) 866-6364
www.listlabs.com

Certificate of Testing

Filamentous Hemagglutinin (FHA) from *Bordetella pertussis*

Prod. No: 170L Lot Number: 17056A1

Date of Manufacture 13 October 2023 **FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN USE.**

Contents

Each container holds 25 µg of Filamentous Hemagglutinin in 0.05 M sodium phosphate, 0.5 M sodium chloride, pH 7.0 with a fill volume of 0.25mL. Concentration is 0.1 mg/mL. **Handle the product gently; do not vortex.**

Storage/Shipping Requirements


Store at ≤-65°C. Ship on dry ice.

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.

The product is intended for research purposes by qualified personnel. 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.

Attribute	Test Method ID/Version	Results
Appearance	Physical Appearance / ASSAY.063 v05	In liquid form: clear, colorless, and particulate free
Purity	OD Measurement / ASSAY.060 v07	A ₂₈₀ /A ₂₆₀ : 0.85 A ₃₂₀ : 0.09
	SDS-PAGE / GELS.018 v18	Non-reduced %purity: 70% Reduced %purity: 70%
	Endotoxin / ASSAY.092 v06	9.9 EU/mg
Activity	Hemagglutination Assay / ASSAY.011 v06	Lowest concentration with positive response to assess agglutination using sheep red blood cells: 0.0006 mg/mL

Quality Control:  Date: 02/20/2024

Production:  Date: 02/21/2024