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Certificate of Testing

PERTUSSIS TOXIN from *Bordetella pertussis*, Lyophilized in Buffer

Prod. No: 180 Lot Number: 180243A2

Date of Manufacture 11 May 2021 **FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN USE.**

Contents: Each container holds 50 µg of lyophilized pertussis toxin (PT) from *Bordetella pertussis* in 0.01 M sodium phosphate, 0.05 M sodium chloride, pH 7.0.

Storage/Shipping Requirements:

Store at 5 ± 3 °C. This product is provided as an aseptically packaged lyophilized powder, sealed under vacuum. Ship material at ambient temperature.

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 v5	Before reconstitution: uniform white powder After reconstitution: uniform suspension, particulate free
Purity	SDS-PAGE / GELS.018 v18	5 distinct bands: 100% purity
Activity	CHO Cell Assay	Lowest concentration of toxin at which a positive response was obtained: 0.1 ng/mL
	Adenylate Cyclase Assay	0.96 pmoles cAMP/min/µg

Quality Control Manager:  Date: 06/16/2021
 Production:  Date: 06/16/2021