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Certificate of Testing

PERTUSSIS TOXIN from *Bordetella pertussis*, Lyophilized in Buffer

Prod. No: 180 Lot Number: 180244A1

Date of Manufacture 14 April 2022 **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 when reconstituted with 0.5 mL water. **Do not sterile filter, as this will result in loss of material. Handle the product gently. Do not vortex.**

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
	SDS-PAGE / GELS.018 v18	5 distinct bands: 100% purity
Purity	Endotoxin / ASSAY.092 v05	3990 EU/mg
	CHO Cell Assay	Lowest concentration of toxin at which a positive response was obtained: 0.1 ng/mL
Activity	Adenylate Cyclase Assay	1.46 pmoles cAMP/min/µg

NOTE: Toxicity may vary by lot of toxin. Each laboratory should determine the optimum dosage for each lot in a particular application.

Activation

Please note that this product is not activated. If your system requires activation, see Kaslow, H.R., Lim, L.K., Moss, J. and Lesikar, D.D. (1987) *Biochem.* 26, 123 -127.

Quality Control Manager:  Date: 05/20/2022

Production:  Date: 20MAY2022