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## Certificate of Testing

### Pertussis Toxin (Salt-Free)

Prod. No: 181 Lot Number: 181242A1

Date of Manufacture 09 September 2021 **FOR RESEARCH PURPOSES ONLY.  
NOT FOR HUMAN USE.**

#### Contents

Each container holds 50 µg of lyophilized Pertussis Toxin. Reconstitute with water or buffer of choice. Mix gently prior to use to ensure a uniform suspension. **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. **DO NOT FREEZE.**

#### 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	Before reconstitution: uniform white powder After reconstitution: uniform suspension particulate free
Purity	SDS-PAGE / GELS.018 v18	5 distinct bands with 100% purity
	Endotoxin / ASSAY.092 v05	930 EU/mg
Activity	CHO Cell Assay	Lowest concentration of Pertussis Toxin that causes cell clustering: 0.03 ng/mL
	Adenylate Cyclase Assay	2.11 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.**

Quality Control Manager:  Date: 03/04/2022

Production:  Date: 04 MAR 2022