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## Certificate of Testing

### Pertussis Toxin (Salt-Free)

Prod. No: 181 Lot Number: 181244A1

Date of Manufacture 15 May 2022

**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.

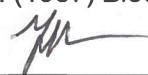
The product is intended for research purposes by qualified personnel. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc. is not liable for any damages resulting from the misuse or handling of this product.

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	7900 EU/mg
Activity	CHO Cell Assay	Lowest concentration of Pertussis Toxin that causes cell clustering: 0.03 ng/mL
	Adenylate Cyclase Assay	1.16 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: 06/17/2022

Production:  Date: 17 JUN 2022