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Certificate of Testing

PERTUSSIS TOXIN from *Bordetella pertussis* (Salt-Free)

Prod. No: 181

Lot Number: 181255A1

Date of Manufacture 10 July 2026

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE.

Contents

Each container holds 50 µg of lyophilized pertussis toxin from *Bordetella pertussis*. Reconstitute with water or buffer of choice. Mix gently prior to use to ensure 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.

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	Pass / Fail
Appearance	Physical Appearance / ASSAY.063 v6.0	Before reconstitution: uniform white powder After reconstitution: uniform suspension, particulate free	Pass
Purity	SDS-PAGE / GELS.018 v19.0	Non-Reduced: 5 distinct bands with 99% purity Reduced: 5 distinct bands with 98% purity	Pass
	Endotoxin / ASSAY.092 v7.0	< 50 EU/mg	N/A
Activity	CHO Cell Assay / ASSAY.141 v1.0	Lowest concentration of toxin at which a positive response was obtained: 0.003 ng/mL	Pass

NOTE: Each laboratory should determine the optimum dosage in a particular application. Refer to toxicity activity results for baseline determination.

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:  Date: 24 Jul 2026

Production:  Date: 07/27/2026