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Certificate of Testing

Toxin A from *Clostridium difficile*

Prod. No: 152C Lot Number: 15223A1

Date of Manufacture 21 May 2026

**FOR RESEARCH PURPOSES ONLY.
 NOT FOR HUMAN USE.**

Contents

Each container holds 100 µg of *C. difficile* Toxin A. When reconstituted with 0.5 mL of water, the buffer contains 50 mM Tris, 50mM NaCl, pH 7.5, and 0.1% Trehalose.

Storage/Shipping Requirements

Store at 5 ± 3 °C. This product is provided as an aseptically packaged liquid. Ship material on blue ice.


Handling

Handle the product gently. Do not vortex. 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, free of foreign material. After reconstitution: clear, colorless, and particulate free	Pass
Purity	SDS-PAGE / GELS.018 v19.0	Non-Reduced: Monomer at ~270 kDa: 90.1% Reduced: Monomer at ~270 kDa: 89.6%	Pass
	Native Gels / GELS.008 v5.0	1 distinct band at ~780 kDa: 100%	Pass
	OD Measurement / ASSAY.060 v7.0	A ₂₈₀ /A ₂₆₀ : 1.73 A ₃₂₀ : 0.10	Pass
	Endotoxin / ASSAY.092 v7.0	1.43 EU/mg	Pass
Activity	Vero Cell Assay / ASSAY.139 v1.0	0.405 ng/mL	Pass

Quality Control Manager:  Date: 10 Jun 26

Production:  Date: 06/15/2026