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**CERTIFICATE OF ANALYSIS**  
Toxin A from *C. difficile*  
Lot #15215A5

**Contents**

Each vial contains 100 µg of *C. difficile* Toxin A enterotoxin. When reconstituted with 0.5 ml of water, the buffer contains 50 mM Tris, pH 7.5, 50 mM NaCl, and 0.1% trehalose. **Handle product gently; do not vortex.**

**Concentration**

Protein concentration is determined by the Bradford method<sup>1</sup> using bovine serum albumin as the standard.

**Purity**

This preparation migrates as a single major band with a molecular weight of >200,000 daltons when run on a 3-8% gradient polyacrylamide-SDS gel.

**Activity**

The binding activity of this lot has been tested using fresh rabbit red blood cells in a hemagglutination assay. This lot has also been tested to confirm cytotoxic activity on human foreskin cells. All results are within specifications.

**Packaging and Storage**

This product is packaged aseptically, lyophilized, and sealed under vacuum. Store at 2-8°C prior to reconstitution. After reconstitution at 0.2 mg/ml with sterile water, this product is stable for up to 2 months when stored at 2-8°C. **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. Nitrile gloves are recommended for use when handling lyophilized material.

This product is intended for research purposes by qualified personnel only. 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.

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

**References**

1. Bradford, M.M. (1976) *Anal. Biochem.* **72**, 248-254.

Production: KD Date: 6/28/13 Management: NS Date: 6/28/13 QA/QC: EP Date: 6/25/2013