

CERTIFICATE OF ANALYSIS  
Toxin A from *C. difficile*  
Lot #15215A1CContents:

Each vial , when reconstituted with 0.5 ml of sterile purified water, contains 100 µg of *C. difficile* toxin A enterotoxin in 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 migrated as a single major band of molecular weight >200,000 daltons and several minor aggregate bands when run on a 3-8% gradient polyacrylamide-SDS gel.

Activity:

Each lot of *C. difficile* toxin A is tested to confirm binding activity to fresh rabbit red blood cells using a hemagglutination assay; the results were acceptable.

This product has been tested for endotoxin levels and was found to be acceptable.

Packaging and Storage:

This product is packaged aseptically, lyophilized, and sealed under vacuum. Store at 2-8°C prior to reconstitution. Following reconstitution, use immediately; do not store. Do not freeze.

Handling:

**Good laboratory technique should be employed in the safe handling of this product. This requires observing the following practices:**

1. **Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.**

(continued)

2. Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product.
3. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.
4. 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: KM Date: 3/25/10 Management: MT Date: 3/25/10 QA/QC: CL Date: 3/25/10