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Product #155A  
Lot #15521G1A  
Last Retest Date: 6/2017

CERTIFICATE OF ANALYSIS  
Toxin B from *C. difficile*  
Lot #15521G1A

**Contents**

Each vial contains 2 µg of *C. difficile* toxin B. When reconstituted with 100 µl of water, the buffer is 0.02 M HEPES, 0.05 M NaCl, pH 6.9, with 0.1% trehalose. **Handle the product gently; do not vortex.**

**Concentration**

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

**Purity**

When examined on 3-8% SDS-PAGE gels, this protein migrates as a single band with an apparent molecular weight of 270,000 Da. Densitometric analysis estimates the purity of the product as >90%.

The endotoxin content, determined using a kinetic chromogenic LAL assay, is <50 EU/mg.

**Activity**

Cytotoxicity testing on Vero cells indicates an EC<sub>50</sub> (half maximal effective concentration) of ~ 2 pg/mL. Since each cell type exhibits a different sensitivity, testing a range of toxin concentrations is highly recommended.

**Packaging and Storage**

This product is provided as an aseptically packaged lyophilized powder, sealed under vacuum. Store at 2-8°C prior to reconstitution. **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 when handling lyophilized material.

This 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.

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

**References**

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

QA/QC: KPD Date: 01/29/2021