

CERTIFICATE OF ANALYSIS  
Toxin B from *C. difficile*  
Lot #15522A1

**Contents**

Each vial contains 50 µg of *C. difficile* toxin B in 50 mM Tris, 100 mM NaCl, pH 7.5 at a concentration of 0.2 mg/mL. **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 gel in the presence of a reducing agent, 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 ~ 7 EU/mg.

**Activity**

Cytotoxicity testing on Vero cells indicates an EC<sub>50</sub> (half maximal effective concentration) of ~ 36 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 supplied as an aseptically packaged liquid. Store product at 2 – 8°C. To ensure recovery of vial contents, centrifuge before opening. Aseptic handling is recommended, no preservatives have been added to the product.

**Handling**

Good laboratory technique should be employed in the safe handling of this product. **DO NOT FREEZE.** 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: 01/22/2021