



CERTIFICATE OF ANALYSIS
Toxin B from *Clostridium difficile*
Lot #15521G1B

Contents

Each vial, when reconstituted with 100 µl of water, contains 20 µg of *C. difficile* Toxin B in 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 method¹ 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 <20 EU/mg.

Activity

Cytotoxicity testing on Vero cells indicates an EC₅₀ (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 and following reconstitution; use within 2 days after 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.

Production: SP Date: 2-2-17 Management: NS Date: 2/1/17 QA/QC: SP Date: 2/1/17