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Product #152C
Lot #15219A3
Release Date: November 2017

CERTIFICATE OF ANALYSIS
Toxin A from *C. difficile*
Lot #15219A3

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, 50 mM NaCl, pH 7.5 and 0.1% Trehalose. **Handle the product gently. Do not vortex.**

Concentration

A modification of the method of Bradford[1], using NIST traceable bovine serum albumin as the standard, is used to determine the protein concentration.

Purity

When examined on 3-8% SDS-PAGE, this protein migrates as a single major band with an apparent molecular weight of approximately 300,000 daltons. Densitometric analysis estimates the purity of the product as > 80%.

The endotoxin content, determined using a kinetic chromogenic LAL assay, is < 2 EU/mg.

Activity

The binding activity of this lot has been tested using fresh rabbit red blood cells in a hemagglutination assay and the results are within specifications.

Cytotoxicity testing on Vero cells indicates an EC_{50} (half maximal effective concentration) of < 2 ng/mL. Since each cell type exhibits a different sensitivity, testing a range of toxin concentrations is highly recommended.

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 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. 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.

Quality Assurance: _____ Date: 22 OCT 2021