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Product #116L
Lot #1161A1
Date of Manufacture: 5/2016
Recommended Retest Date: 10/2023

CERTIFICATE OF ANALYSIS ALPHA TOXIN from *C. septicum* Lot #1161A1

Contents

Each vial contains 50 µg of recombinant ALPHA TOXIN from *C. septicum* in 10 mM MES, 0.5 M NaCl, 1 mM EDTA, 20% glycerol, pH 6.5, at a concentration of 0.5 mg/ml. This product has been activated by nicking with trypsin. **Handle the product gently; do not vortex.**

Concentration

Protein concentration was determined by absorbance at 280 nm using an extinction coefficient of 1.19 for a 1 mg/ml solution.

Purity

When examined on 4-12% SDS-PAGE, this protein migrates as a single major band with an apparent molecular weight of 45,000 Dalton. Densitometric analysis estimates that activated toxin is >80% of the protein.

The endotoxin content, determined using a kinetic chromogenic LAL assay, is <300 EU/mg.

Activity

Cytotoxicity testing on Vero cells indicates an EC₅₀ (half maximal effective concentration^{1,2}) of ~3 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 supplied as an aseptically packaged liquid. Store the product at -20°C.

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.

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.

Reference

1. Hang'ombe M.B., Mukamoto M., Kohda T., Sugimoto N., Kozaki S. (2004) *Microb. Pathog.* **37**, 279-286.
2. Sellman B. R., Kagan B. L. and Tweten R. K. (1997) *Molecular Microbiology* **23 (3)**, 551-558.

Production: KO Date: 10/25/18 Management: QIP Date: 10/25/18 QA/QC: JC Date: 10/25/18