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CERTIFICATE OF ANALYSIS  
CHOLERA TOXIN B SUBUNIT (LOW SALT)  
Lot #10430A1

Contents:

Each vial of cholera toxin B subunit (choleragenoid), when reconstituted to 0.25 ml with water, contains 0.5 mg of protein in 0.01 M sodium phosphate, pH 7.5.

**Handle product gently; do not vortex.**

Concentration:

Protein concentration was determined by absorbance at 280 nm using an extinction coefficient of 0.96 for 1 mg/ml solution.<sup>1</sup>

Purity:

When examined on 4-12% SDS-polyacrylamide gels, this protein migrates as a single band with an apparent molecular weight of 11,000 Da. Densitometric analysis estimates the purity of the product as >95%. The ratio of absorbance at 280 and 260 nm ( $R_{280/260}$ ) is 1.9. This product has been tested for endotoxin levels and was found to be acceptable.

Assay:

Ganglioside binding activity was assessed by a hemagglutination assay. The activity of this lot was comparable to the standard.

Packaging/Storage:

This product is provided as a lyophilized powder, sealed under vacuum. Store at 2-8°C. **DO NOT FREEZE.**

Handling:

This product is known to be non-hazardous. Good laboratory technique should be employed in the proper handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material.

(continued)

This product is intended for research purposes only. 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. Spangler, Brenda D. (1992) *Microbiological Reviews* **56(4)**, 622-647.

Production: KD Date: 12/5/11 Management: NS Date: 12/5/11 QA/QC: CL Date: 12/5/11