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CERTIFICATE OF ANALYSIS  
Enterotoxin type B  
from  
*Staphylococcus aureus*  
Lot #1223B1

Contents:

Each vial, when reconstituted with 1.0 ml of sterile distilled water, contains 0.5 mg of enterotoxin type B in 0.005 M potassium phosphate, pH 6.8.

Method of Preparation:

This product is prepared from *S. aureus* strain S6 by modifications of the ion exchange chromatography method of Schantz, *et al.*<sup>1</sup>

Concentration:

Protein concentration is determined using an extinction coefficient of  $E_{1\text{ cm}}^{1\text{ mg/ml}} = 1.44$  measured at 277 nm.<sup>2</sup>

Electrophoretic Purity:

This preparation migrates as a single major band of molecular weight approximately 28,000 daltons when run on 12% SDS-polyacrylamide gels prepared according to the method of Wyckoff,<sup>3</sup> a modification of the Laemmli<sup>4</sup> gel system.

Packaging and Storage:

This preparation is filter sterilized using a 0.2  $\mu$  filter and packaged under aseptic conditions. It is supplied as a lyophilized powder, sealed under vacuum. Store at 4°C prior to reconstitution. Following reconstitution, maintain sterility and store frozen in aliquots.

Toxicity:

The emetic dose 50% in animals is approximately 1  $\mu\text{g/kg}$  intragastrically, and 0.1 to 0.5  $\mu\text{g/kg}$  intravenously.<sup>5</sup> Humans are more sensitive, and it is estimated that 2-3  $\text{ng/kg}$  causes illness. Enterotoxin type B may be lethal at high doses. This product is a select agent.

(continued)

**Handling:**

Good laboratory technique should be employed in the safe handling of this product. This involves observing the following practices:

1. This product is to be used by skilled personnel under the direction of a principal investigator in a biosafety level 2 containment area only. Biosafety level 3 precautions may be indicated for activities with a high potential for aerosol or droplet production.
2. Wear appropriate attire, i.e., lab coat, eye protection and latex gloves.
3. **Never** remove the stopper prior to reconstitution, and **never** work with the product in the powdered form. Always reconstitute it first.
4. Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product.
5. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.
6. 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. Schantz, E.J., Roessler, W.G., Wagman, J., Spero, L., Dunny, D.A., and Bergdoll, M.S. (1965) *Biochemistry* **4** (6), 1011-1016.
2. Landolo, J.J. and Tweten, R.K. (1988) *Meth. Enzymol.* **165**, 43-52.
3. Wyckoff, M., Rodbard, D. and Chrambach, A. (1977) *Anal. Biochem.* **78**, 459-482.
4. Laemmli, U.K. (1970) *Nature* **227**, 680-685.
5. Bergdoll, M.S. (1988) *Meth. Enzymol.* **165**, 324-333.

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