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Product #123  
Lot #1232A1  
Release Date: February 2013

**CERTIFICATE OF ANALYSIS**  
**STAPHYLOCOCCAL ENTEROTOXIN TYPE B TOXOID**  
**from *Staphylococcus aureus***  
**Lot #1232A1**

**Contents**

Each vial, when reconstituted with 500 µl water, contains 250 µg of Staphylococcal Enterotoxin Type B (SEB) Toxoid in 0.1M Histidine, 0.1M Sodium Chloride, pH 7.0, with 5% Trehalose. **Handle the product gently. Do not vortex.**

**Concentration**

Protein concentration is determined by absorbance at 277 nm using an extinction coefficient of 1.44 for a concentration of 1 mg/ml.<sup>1</sup>

**Assay Results**

This product is produced from Staphylococcal Enterotoxin Type B by inactivation with formaldehyde. Mitogenicity of the toxoid was assessed by measuring the stimulation of human IFN-gamma in peripheral blood mononuclear cells (PBMC) after exposure to the toxoid. No mitogenicity was detected at a concentration of 20 ng/ml SEB Toxoid which was 1,000 times more concentrated than the control SEB.

Antigenicity of the SEB Toxoid was assessed using a monoclonal SEB antibody in a sandwich ELISA. The SEB Toxoid retains approximately 2% of the antigenicity when compared to the starting material for the SEB Toxoid.

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

**Packaging/Storage**

Staphylococcal Enterotoxin Type B Toxoid is supplied as lyophilized powder, sealed under vacuum. Store at 2 – 8°C prior to reconstitution. Following reconstitution, aliquot and freeze.

**Handling**

Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including 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. Iandolo, J.J and Tweten, R.K. (1988) *Meth. Enzymol.* **165**, 43 – 52

Quality Assurance: 

Date: 11 OCT 2021