

**NEW FORMULATION**

CERTIFICATE OF ANALYSIS  
TETANUS TOXOID  
(formaldehyde inactivated tetanus toxin)  
Lot #19120A1B

Contents:

Each vial, when reconstituted with 500  $\mu$ l of sterile purified water, contains 100  $\mu$ g of tetanus toxoid in 10 mM Sodium Phosphate, 150 mM NaCl, pH 7.5 and 2% Trehalose. **Handle product gently, do not vortex.**

Concentration:

Protein concentration is determined by measuring the absorbance at 280 nm using an extinction coefficient of 1.24 for a concentration of 1 mg/ml.

Toxicity:

This product is produced from tetanus toxin by inactivation with formaldehyde. The resulting toxoid is essentially nontoxic. At the highest dose tested (4  $\mu$ g/mouse) there were no deaths, no signs of illness, and no spastic paralysis during seven days of observation.

Assay Results:

In immunodiffusion studies, tetanus toxoid shows immunoprecipitation when reacted against a specific antiserum to tetanus toxoid.

This product has been tested for endotoxin levels and was found to be acceptable.

Packaging and Storage:

Tetanus toxoid is supplied as a lyophilized powder, sealed under vacuum. Store at 2-8°C prior to reconstitution. Following reconstitution, aliquot and freeze. Do not exceed one freeze-thaw cycle.

Handling:

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

(continued)

1. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses. Nitrile gloves are recommended for use when handling lyophilized material.
2. 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.
3. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.
4. This product is intended for research purposes by qualified personnel 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.**

Production: KM Date: 4-14-11 Management: NS Date: 4-14-11 QA/QC: CL Date: 4/14/11