

**NEW FORMULATION**CERTIFICATE OF ANALYSIS  
TETANUS TOXOID  
(formaldehyde inactivated tetanus toxin)  
Lot #19120A1AContents:

Each vial, when reconstituted with 125  $\mu$ l of sterile purified water, contains 25  $\mu$ 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