



CERTIFICATE OF ANALYSIS  
DIPHTHERIA TOXIN from *Corynebacterium diphtheriae*  
UNNICKED  
Lot #15042B1

**Contents**

Each vial, when reconstituted with 0.5 ml of water, contains 1 mg of unnicked diphtheria toxin in 0.01 M Tris and 0.001 M EDTA, pH 7.5. **Handle the product gently, do not vortex.**

**Attention**

Toxicity may vary by lot of toxin. Each laboratory should determine the optimum dosage for each particular application.

**Concentration**

Protein concentration is determined by measuring the absorbance at 280 nm using an extinction coefficient of 1.18 for a concentration of 1 mg/ml.

**Purity**

As assessed by polyacrylamide gel electrophoresis run at alkaline pH under nondenaturing conditions, this preparation migrates as a single major band.

On SDS-PAGE gels run in the presence of a reducing agent, this preparation migrates as a single major band with an apparent molecular weight of 58,000 daltons corresponding to the intact toxin. Bands representing A and B fragments were not observed.

Densitometric analysis estimates the purity of the product as > 95%.

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

**Packaging/Storage**

This preparation is provided as a lyophilized powder that has been stoppered under vacuum. Prior to reconstitution, it should be stored at 2-8°C. Following reconstitution with water, unused toxin may be frozen in aliquots and stored at -20°C. Subsequent thawing should be done at room temperature. NOTE: Repeated freezing and thawing or maintaining the preparation at 2-8°C for extended periods of time is not recommended, due to potential autocatalysis.

(continued)

**Handling**

Good laboratory technique should be employed for the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material.

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.**

Production: EH Date: 8/27/12 Management: NS Date: 8/27/12 QA/QC: QP Date: 8/27/12