



CERTIFICATE OF ANALYSIS
DIPHThERIA TOXIN CRM MUTANT
Lot #14934A1

Contents:

Each vial, when reconstituted to 0.5 ml with sterile purified water, contains 1.0 mg of diphtheria toxin CRM mutant in 10 mM sodium phosphate with 5% lactose, pH 7.4. **Handle the product gently, do not vortex.**

Concentration:

Protein concentration is established by a modification of the method of Bradford¹, using bovine serum albumin as the standard.

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 this preparation migrates as a major band of approximate molecular weight 58,000 daltons corresponding to the intact toxin. The product is approximately 99% pure.

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 quickly and at room temperature. NOTE: Repeated freezing and thawing or maintaining the preparation at 2-8°C for extended periods of time are not recommended, as either practice can lead to increased nicking.

Use:

For assays employing very low concentrations of diphtheria toxin CRM mutant, the use of a carrier protein, such as human serum albumin, is recommended.

(continued)

Handling:

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

1. Wear appropriate laboratory attire including a lab coat, nitrile gloves and safety glasses.
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.

References:

1. Bradford, M.M. (1976) *Anal. Biochem.* **72**, 248-254.

Production: KO Date: 7/13/10 Management: MT Date: 7.13.10 QA/QC: CL Date: 7/13/10