

CERTIFICATE OF ANALYSIS

DIPHTHERIA TOXIN UNNICKED

Contents:

Each vial, when reconstituted to 0.5 ml with sterile distilled water, contains 1.0 mg of unnicked diphtheria toxin in 0.01 M Tris and 0.001 M Na₂ EDTA, pH 7.5. **Handle the product gently, do not vortex.**

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 of apparent molecular weight of 58,000 daltons corresponding to the intact toxin. There are no visible bands of approximate molecular weights 37,000 and 21,000 daltons, corresponding to the B and A fragments, respectively.

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)

Use:

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

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, 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.

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