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Certificate of Testing

Diphtheria Toxoid from *Corynebacterium diphtheriae*, Lyophilized in Buffer

Prod. No: 151 Lot Number: 15110A1

Date of Manufacture 20 January 2025 **FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE.**

Contents

Each container holds 0.5 mg of lyophilized diphtheria toxoid. When reconstituted with 0.5 mL of water the toxoid is in 10 mM sodium phosphate, pH 7.5, and 0.1 mg/mL sorbitol.

Storage/Shipping Requirements

Store at 5 ± 3 °C. This product is provided as an aseptically packaged lyophilized powder, sealed under vacuum. Ship material at ambient temperature.

Handling

Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.

The product is intended for research purposes by qualified personnel. 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.

| Attribute | Test Method ID/Version | Results |
|------------|--------------------------------------|--|
| Appearance | Physical Appearance / ASSAY.063 v6.0 | Before reconstitution: white, uniform cake, free of foreign material |
| | | After reconstitution: clear, colorless, complete dissolution, particulate free |
| Purity | SDS-PAGE / GELS.018 v18.0 | Non-reduced: %Monomer = 96% and %Aggregates = 4% Reduced: %Monomer = 96% and %Aggregates = 4% |
| | OD Measurement / ASSAY.060 v7.0 | A ₂₈₀ /A ₂₆₀ : 1.69 A ₃₂₀ : 0.0244 |
| | Endotoxin / ASSAY.092 v7.0 | 1.6 EU/mg |
| Identity | Immunodiffusion / ASSAY.019 v5.0 | Lowest concentration of toxoid at which immunoprecipitation was observed: 31.3 µg/mL |
| Activity | Vero Cell Assay / ASSAY.139 v1.0 | No Cell Cytotoxicity observed at 0.25 mg/mL |

Quality Control:  Date: 03/06/2025

Production:  Date: 03/07/2025