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Product #151
Lot #1519A1
Release Date: July 2019

CERTIFICATE OF ANALYSIS
DIPHTHERIA TOXOID
From *Corynebacterium diphtheriae*
Lot #1519A1

Contents

Each vial contains 0.5 mg of diphtheria toxoid. When reconstituted to 0.5 mL with water, the buffer is 10 mM sodium phosphate, pH 7.5, and 0.1 mg/mL sorbitol. **Handle product gently, do not vortex.**

Concentration

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

Activity

This product is produced from diphtheria toxin by inactivation with formaldehyde. Cytotoxicity testing on Vero cells indicates no activity was observed for the diphtheria toxoid at an EC₅₀ (half maximal effective concentration) of 0.25 mg/mL.

Assay Results

In immunodiffusion studies, diphtheria toxoid showed immunoprecipitation with an antiserum specific to diphtheria toxin.

The endotoxin content, determined by a kinetic chromogenic LAL assay, is <5 EU/mg.

Packaging and Storage

Diphtheria toxoid is supplied as a lyophilized powder, sealed under vacuum. Store at 2-8°C prior to reconstitution.

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. Nitrile gloves are recommended for use when handling lyophilized material.

This 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.

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE

Quality Assurance:  Date: 29 JUN 2021