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## Certificate of Testing

### TETANUS TOXOID from *Clostridium tetani*, Lyophilized in Buffer

Prod. No: 191A

Lot Number: 19131A2

Date of Manufacture 16 August 2022

**FOR RESEARCH PURPOSES ONLY.  
 NOT FOR HUMAN USE.**

#### Contents

Each container holds 25 µg of lyophilized tetanus toxoid. When reconstituted with 50 µL of water the protein is in 100 mM Histidine, 100 mM NaCl, pH 7.0 and 5% Trehalose.

#### 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 v05	Before reconstitution: uniform white pellet After reconstitution: clear, colorless, and particulate free
Purity	SDS-PAGE / GELS.018 v18	Non-reduced: 100% purity Reduced: 100% purity
	Endotoxin / ASSAY.092 v06	1.65 EU/mg
Identity	Immunodiffusion / ASSAY.019 v05	Lowest concentration of toxoid at which immunoprecipitation was observed: 31.25 µg/mL
Activity	Mouse Lethality	No death or illness at 15µg per mouse; performed on the bulk Lot# 19131A

Quality Control Manager:  NGT Date: 08Feb2023

Production:  Todd Christian Date: 02/09/2023