

Certificate of Testing

TETANUS TOXOID from Clostridium tetani, Lyophilized in Buffer

Prod. No:

191B

Lot Number:

19132A2

Date of Manufacture

17 August 2021

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN USE.

Contents

Each container holds 100 μ g of lyophilized tetanus toxoid. When reconstituted with 200 μ L 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.

<u>Handling</u>

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: 93.2% purity	
	OD Measurement / ASSAY.060 v07	A ₂₈₀ /A ₂₆₀ : 1.81 A ₃₂₀ : 0.0134	
	Endotoxin / ASSAY.092 v05	3.18 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 15 µg of toxoid per mouse (performed on the bulk lot #19132A)	

Quality Control Manager:	JU-	Date:	7/28/	2021
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Production: Jobel	Christian.	Date:_ 	28/	2021