



540 Division Street, Campbell, California 95008-6906
 Tel. (408) 866-6363 Fax (408) 866-6364
www.listlabs.com

Certificate of Testing

Tetanus Toxin

Prod. No: 190A

Lot Number: 19050A3

Date of Manufacture 29 July 2022

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

Contents

Each container holds 25 µg of lyophilized Tetanus Toxin in 20 mM HEPES, pH 7.4 with 1.25% Lactose when reconstituted with 0.1 mL water. **Handle the product gently; do not vortex.**

Storage/Shipping Requirements

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

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 %purity: 69% Reduced %purity: 79%
	OD Measurement / ASSAY.060 v07	A ₂₈₀ /A ₂₆₀ : 1.59 A ₃₂₀ : 0.03
	Endotoxin / ASSAY.092 v06	3 EU/mg
Activity	Hemagglutination Assay / ASSAY.011 v06	Lowest concentration with positive response: 0.0063 mg/mL
	FRET Assay / ASSAY.166 v01	Kinetics of 100 nM of Tetanus Toxin: 0.008 RFU/sec Kinetics of 200 nM of Tetanus Toxin: 0.015 RFU/sec

NOTE: Toxicity may vary by lot of toxin. Each laboratory should determine the optimum dosage for each lot in a particular application.



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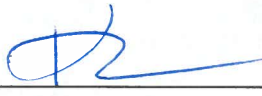
Recommendations

List labs recommends that any person who may potentially become exposed to this Toxin should be currently vaccinated with tetanus toxoid.

The Toxin should be controlled and maintained in full compliance with biosafety level 2 or 3 standards, whichever is required based on customer's utilization. Such standards are described in "Biosafety in Microbiology and Biomedical Laboratories" HHS Publication No. (NIH) 88-8395, 2nd edition, May 1988 and as the same may be amended or superseded.

Personnel who come into contact with the Toxin shall be full trained and qualified in its handling and use.

Quality Control Manager:  Date: 09/13/2022

Production:  Date: 13 Sep 2022