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Certificate of Testing

Cholera Toxin (Azide-Free) from *Vibrio cholerae*

Prod. No: 100B Lot Number: 10071A1

Date of Manufacture 26 September 2022 **FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN USE.**

Contents

Each container holds 1 mg of lyophilized Cholera Toxin (CT) in 0.05 M Tris, 0.2 M NaCl, 0.001 M Na₂EDTA at pH 7.5 when reconstituted with 0.5 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 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 powder After reconstitution: clear, colorless, and particulate free
Purity	SDS-PAGE / GELS.018 v18	Non-reduced %purity: 100% Reduced %purity: 100%
	Native Gel / GELS.008 v05	100% purity
	OD Measurement / ASSAY.060 v07	A ₂₈₀ /A ₂₆₀ : 2.19 A ₃₂₀ : 0.01
	Endotoxin / ASSAY.092 v06	11.4 EU/mg
Activity	Hemagglutination Assay / ASSAY.011 v06	Lowest concentration with positive response to assess binding activity using GM1 ganglioside fixed sheep red blood cells: 0.003125 mg/mL
	ELISA / ASSAY.108 v01	EC ₅₀ of titer curve for binding ability of cholera toxin to an ELISA plate coated with 2 µg GM1: 34.9 ng/mL

Quality Control Manager:  Date: 10/26/2022

Production:  Date: 10/26/2022