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Certificate of Testing

Lipopolysaccharide from *Escherichia coli* O113

Prod. No: 433A

Lot Number: 4333A1

Date of Manufacture 23 July 2021

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

Contents

Each vial, when reconstituted with 0.5 mL water, contains 1 µg of Lipopolysaccharide in 1.0% lactose, 0.1% PEG6000..

Storage/Shipping Requirements

Store and ship at 5 ± 3 °C.

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.118 v1.0	Before reconstitution: white cake
		After reconstitution: clear, colorless liquid
		Container appearance: 2mL glass vial, crimped
Moisture	USP <921> / Moisture by Karl Fischer	1.7%
Potency	Endotoxin / ASSAY.092 v5.0	12,311 EU/vial

Quality Control:

Date: 13 Nov 25

Production:

Date: 11/13/2025