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Certificate of Testing

Lipopolysaccharide from *Escherichia coli* O111:B4

Prod. No: 201

Lot Number: 20149B1

Date of Manufacture 16 September 2025 **FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN USE.**

Contents

Each container holds 5 mg of lyophilized lipopolysaccharide.

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 v6.0	Before reconstitution: uniform white cake. After reconstitution: uniform suspension, particulate free.
Purity	SDS-PAGE / GELS.020 v7.0	Band migration pattern comparable to control
Potency	Endotoxin / ASSAY.092 v7.0	4.76×10^6 EU/mg
Assay	Protein Assay / ASSAY.002 v5.0	0.3%
	Nucleic Acid Assay / ASSAY.003 v3.0	1.2%
	Phosphate Assay / ASSAY.004 v5.0	1.7%
	KDO Assay / ASSAY.005 v6.0	2.6%
	Solubility Test / 200.005 v2.0	Soluble and comparable to standard

Quality Control: _____

Date: 10/20/2025

Production: _____

Date: 10/20/2025