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## Certificate of Testing

### Lipopolysaccharide from *Escherichia coli* O111:B4

Prod. No: 201 Lot Number: 20147A2

Date of Manufacture 02 September 2022 **FOR RESEARCH PURPOSES ONLY.  
 NOT FOR HUMAN USE.**

#### Contents

Each container holds 5 mg of lyophilized lipopolysaccharide.

#### Storage/Shipping Requirements

Store at  $5 \pm 3$  °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 pellet. After reconstitution: clear, colorless, and particulate free.
Purity	SDS-PAGE / GELS.020 v07	Band migration pattern comparable to control
Potency	Endotoxin / ASSAY.092 v05	$4.6 \times 10^6$ EU/mg
Assay	Protein Assay / ASSAY.002 v05	0.3%
	Nucleic Acid Assay / ASSAY.003 v03	0.7%
	Phosphate Assay / ASSAY.004 v05	2.6%
	KDO Assay / ASSAY.005 v06	2.6%
	Solubility Test / 200.005 v02	Soluble and comparable to standard

Quality Control:  Date: 11/21/2022

Production:  Date: 11/21/2022