



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

## Certificate of Testing

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

**Prod. No:** 201 **Lot Number:** 20148A1

**Date of Manufacture** 24 January 2024 **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.

#### Reconstitution

LPS is dispersible in aqueous solvent at concentrations of 1 mg/mL. To achieve a suspension in water, heating to about 50°C with intermittent vortexing or sonication is recommended.<sup>1</sup> Allow ample time for dispersion to occur. The use of 0.5% triethylamine aids in dispersion. Triethylamine is very basic and may be neutralized with Tris HCl to avoid hydrolysis of the LPS fatty acid chains.

Attribute	Test Method ID/Version	Results
Appearance	Physical Appearance / ASSAY.063 v05	Before reconstitution: uniform white cake. After reconstitution: uniform suspension, particulate free.
Purity	SDS-PAGE / GELS.020 v07	Band migration pattern comparable to control
Potency	Endotoxin / ASSAY.092 v06	6.64 x 10 <sup>6</sup> EU/mg
Assay	Protein Assay / ASSAY.002 v05	0.1%
	Nucleic Acid Assay / ASSAY.003 v03	0.8%
	Phosphate Assay / ASSAY.004 v05	3.0%
	KDO Assay / ASSAY.005 v06	2.9%
	Solubility Test / 200.005 v02	Soluble and comparable to standard



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#### References

1. Mukerjee, P., Kastowsky, M., Obst, S., Takayama, K. (1999) Lipopolysaccharide Preparations in Aqueous Media in *Endotoxin in Health and Disease*, Brade, H., Opal, S.M., Vogel, S.N., Morrison, D.C. eds., Marcel Dekker, Inc., New York, p. 223-224.

Quality Control: \_\_\_\_\_

Date: \_\_\_\_\_

01/16/2025

Production: \_\_\_\_\_

Date: \_\_\_\_\_

Johel Christu

01/16/2025