

Product #225

Release Date: April 2011

CERTIFICATE OF ANALYSIS LIPOPOLYSACCHARIDE from Salmonella typhimurium Lot #2258A2

Contents

Each vial contains 5.0 mg of lyophilized lipopolysaccharide (LPS) isolated from Salmonella typhimurium.

Reconstitution/Storage

LPS is dispersable in aqueous solvents at concentrations of 1.0 mg/ml. To achieve suspension in water, heating to about 50°C with intermittent vortexing or sonication is generally recommended.¹ 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 fatty acid chains. It is recommended that this material be stored at 2-8°C prior to and following reconstitution.

Analysis

2-Keto-3-deoxyoctonate (KDO) ²	3.3%
Phosphate ³	
Protein ⁴	2.0%
Nucleic acid ⁵	
Endotoxin activity by chromogenic LAL	

Handling

Good laboratory technique should be employed in the safe handling of any lipopolysaccharide or lipid A product. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material.

This product is pyrogenic. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.

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.

FOR RESEARCH PURPOSES ONLY. NOT FOR USE IN HUMANS.

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.
- 2. San Cynkin, M.A. and Ashwell, G. (1960) Nature 186, 155-156.
- 3. Ames, B.N. and Dubin, D.T. (1960) J. Biol. Chem. 235, 769-775.
- 4. Bradford, M.M. 1976 Anal. Biochem. 72, 248-254.
- Determined by absorption at 260 nm after correction for end absorption by LPS.

QA/QC: Vak Date: Obnw202

