SUPPORTING INFECTIOUS DISEASE RESEARCH

## Lipopolysaccharide from a Non-Toxigenic Mutant of *Escherichia coli*, Strain 86-24 (Serotype O157:H7)

## Catalog No. NR-44090

This reagent is the tangible property of the U.S. Government.

**Product Description:** Lipopolysaccharide (LPS) was isolated from a non-toxigenic mutant of *Escherichia coli* (*E. coli*), strain 86-24 (serotype O157:H7) using phenol/chloroform extraction. The extract was dialyzed to remove phenol and dehydrated.

## Lot<sup>1</sup>: 61992689

## Manufacturing Date: 04APR2014

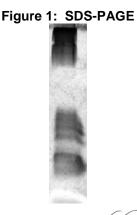
TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Silver Stain)	Silver stain banding pattern is consistent with purified LPS	Silver stain banding pattern is consistent with purified LPS (Figure 1)
Amount per Vial	Report results	1 μg per vial
Identification by ELISA <sup>2</sup> LPS from NR-44090 ( <i>E. coli</i> , serotype O157:H7) LPS from <i>E. coli</i> , serotype O55 (negative control)	Reactive Not reactive	Reactive Not reactive
Endotoxin Content	Report results	~ 50000 EU per mg
<b>Bacterial Inactivation</b> 10% of total yield plated on Tryptic Soy agar <sup>3,4</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>NR-44090 was prepared and underwent QC testing by Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA.

<sup>2</sup>The ELISA was done using rabbit anti-O157 typing antisera as the primary body and goat anti-rabbit IgG conjugated HRP as the secondary antibody and 1-Step Turbo TMB Substrate (Pierce).

<sup>3</sup>7 days at 37°C in an aerobic atmosphere.

<sup>4</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.



Date: 31 OCT 2014

Signature:

Technical Manager, BEI Authentication or designee

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.



ATCC<sup>®</sup> is a trademark of the American Type Culture Collection. You are authorized to use this product for research use only. It is not intended for human use.

Title:

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370 Fax: 703-365-2898