

Certificate of Analysis for NR-44090

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.

Lot¹: 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 ELISA² 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
Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

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

²The 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).

³7 days at 37°C in an aerobic atmosphere.

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

Figure 1: SDS-PAGE



Date: 31 OCT 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

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