

Certificate of Analysis for NR-860

Shiga Toxin Type 1 Subunit B, Recombinant from Escherichia coli

Catalog No. NR-860

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

Product Description: NR-860 is a recombinant form of the B subunit of Shiga toxin type 1 (Stx1). The amino acid sequence includes a C-terminal hexa-histidine tag and amino acid residues 21 to 89 of the Stx1 subunit B protein. The recombinant protein was expressed in *Escherichia coli* and purified by nickel affinity chromatography.

Lot¹: 63732547 Manufacturing Date: 26OCT2015

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange densitometer scan) (Figure 1)	Dominant band ~ 8.5 kDa > 95% pure	Dominant band ~ 8.5 kDa > 98% pure
SELDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass (8513 Da)	Measured mass (8512 Da) within 0.1% of expected mass
SELDI-TOF Mass Spectrometry of Protease Digest Glutamic C endopeptidase	> 50% of total residues accounted for in peptides of expected mass	86% of total residues accounted for in peptides of expected mass
Concentration by Bicinchoninic Acid Protein Assay	Report results	1.0 mg/mL
Functional Activity Western Blot (Figure 2) ² Carbonic anhydrase Stx1 subunit B (NR-860) with mouse monoclonal antibody to Stx1 subunit B	Non-reactive Reactive	Non-reactive Reactive
Cytotoxicity in Vero Cells Stx1 subunit B (NR-860)	Non-cytotoxic	Non-cytotoxic ³
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized
Endotoxin Content	1 to 10000 EU/mg	< 125 EU/mg
Absorbance Ratio (OD ₂₈₀ /OD ₂₆₀)	Report results	1.5

¹This item was manufactured and subjected to quality control testing by Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA

Date: 20 MAY 2016 Signature:

BEI Resources Authentication

ATCC®, 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®'s knowledge.

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²Completed with primary antibody BEI Resources NR-844, similar to 13C4

³Not cytotoxic at 1:100 dilution (0.01 mg/mL) of NR-860



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Figure 1: SDS-PAGE

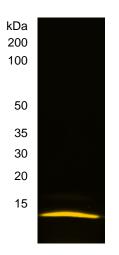
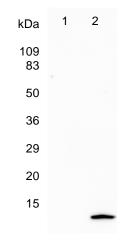


Figure 2: Western Blot



Lane 1: Carbonic Anhydrase Negative Control

Lane 2: NR-860

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