

Certificate of Analysis for NR-860

Shiga Toxin Type 1 Subunit B, Recombinant from Escherichia coli

Catalog No. NR-860

This reagent is the tangible 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 (GenPept: AAA98348). The recombinant protein was expressed in *Escherichia coli* and purified by nickel affinity chromatography.

Lot: 59926594 Manufacturing Date: 09NOV2011

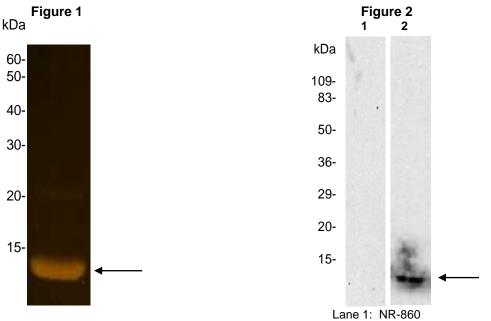
TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange Densitometer Scan)	Dominant band of ~ 8 kDa > 95% pure	Dominant band of ~ 8 kDa 98% pure (Figure 1)
Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence: 8,513 daltons	Measured mass within 0.4% of expected mass based on amino acid sequence: 8,548 daltons
SELDI-TOF Mass Spectrometry of Glu-C Digest	> 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	1.0 mg (± 5%) per mL	1.0 mg per mL
Functional Activity by Western Blot Analysis Mouse monoclonal antibody to Stx1 subunit B (BEI Resources NR-844)	Reactive Non-reactive	Reactive (Figure 2) Non-reactive
Carbonic anhydrase	Non-reactive	Non-reactive
Cytotoxicity in Vero Cells NR-860	Report results	Non-cytotoxic at 1 × 10 ⁻⁵ M
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 250 EU/mg
Absorbance Ratio (OD ₂₈₀ /OD ₂₆₀)	Report results	1.5

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Lane 2: Carbonic anhydrase

Date: 29 MAR 2012

Signature: 2000 Chy

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Title: Technical Manager, BEI Authentication or designee

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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