

Shiga Toxin Type 1 Subunit B, Recombinant from *Escherichia coli*

Catalog No. NR-860

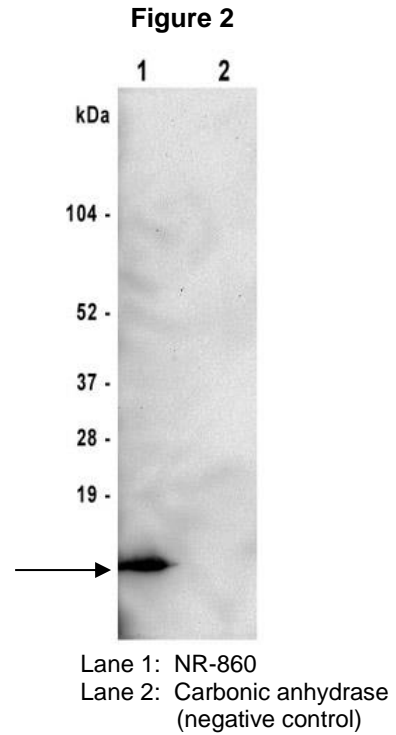
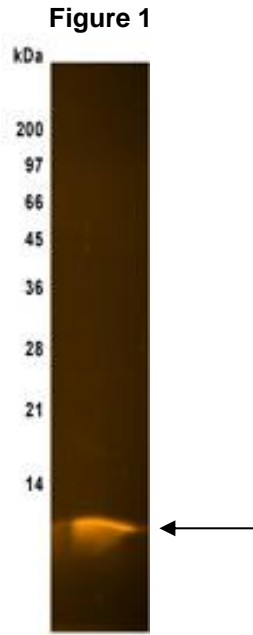
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Product Description: NR-860 is a recombinant form of the B subunit of Shiga toxin type 1 (Stx1). The amino acid sequence includes a C-terminal hexa-histidine tag and amino acid residues 21 to 89 of the Stx1 subunit B protein (GenPept: AAA98348). The recombinant protein was expressed in *Escherichia coli* and purified by nickel affinity chromatography.

Lot: 59206190

Manufacturing Date: 30JUL2010

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange densitometer scan)	Dominant band of expected size (8.513 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 3.5% of expected mass based on amino acid sequence: 8,211 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	Report results	1.0 mg/mL
Functional Activity by Western Blot Analysis Mouse monoclonal antibody to Stx1 subunit B (BEI Resources NR-844) Carbonic anhydrase	Reactive Non-reactive	Reactive (Figure 2) Non-reactive
Cytotoxicity in Vero Cells NR-860	Report results	Non-cytotoxic at 1x10 ⁻⁵ M
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized
Endotoxin Content (Limulus Amoebocyte Lysate assay)	Report results	< 1.2 EU/mg
Absorbance Ratio (OD₂₈₀/OD₂₆₀)	Report results	1.5



Date: 01 DEC 2010

Signature:

Title: Technical Manager, BEI Authentication or designee

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