

Shiga Toxin Type 1, Recombinant from *Escherichia coli*

Catalog No. NR-857

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

Product Description: NR-857 is a recombinant form of Shiga Toxin Type 1 (Stx1) expressed in *Escherichia coli* and purified by antibody affinity chromatography.

Lot: 60861998

Manufacturing Date: 25JUL2012

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange Densitometry)	rStx1 represents > 95% of total staining intensity	rStx1 represents > 95% of total staining intensity (Figure 1)
SELDI-TOF Mass Spectrometry	Subunit A - Measured mass within 1% of expected mass (32053 Da) Subunit B – Measured mass within 1% of expected mass (7691 Da)	Subunit A - Measured mass (32371 Da) within 1% of expected mass Subunit B – Measured mass (7709 Da) within 0.3% of expected mass
Concentration by Bicinchoninic Acid Protein Assay¹	Report results	0.07 mg per mL
Functional Activity by Western Blot Analysis² NR-857 Carbonic anhydrase	Reactive Non-reactive	Reactive (Figure 2) Non-reactive
Cytotoxicity in Vero Cells	Report results	CD ₅₀ ~ 1 × 10 ⁻¹⁴ M (Figure 3)
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

¹Using BSA as a standard

²Using rabbit polyclonal antiserum to Shiga toxin 1

Date: 13 JUN 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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Figure 1 – SDS-PAGE

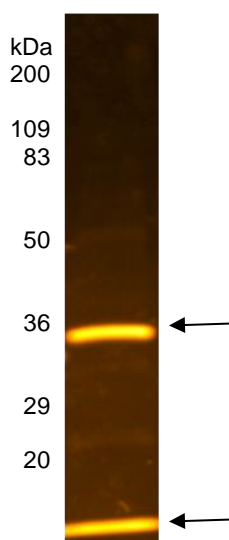
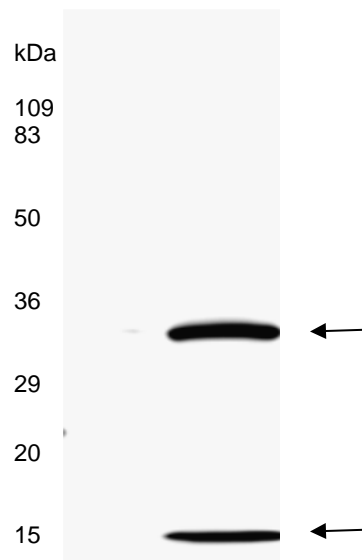


Figure 2 – Western Blot



Lane 1: Carbonic Anhydrase (Negative Control)
Lane 2: NR-857

Figure 3 - Vero Cell Cytotoxicity Assay

