

Certificate of Analysis for NR-49262

Shiga Toxin Type 2 Subunit B, Recombinant from Escherichia coli

Catalog No. NR-49262

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

Product Description: NR-49262 is a recombinant form of the B subunit of Shiga toxin type 2 (Stx2). The amino acid sequence includes a C-terminal hexa-histidine tag and amino acid residues 20 to 89 of the Stx2 subunit B protein (GenPept: AAD25446). The recombinant protein was expressed in *Escherichia coli* and purified by nickel affinity chromatography.

Lot: 63709686 Manufacturing Date: 22SEP2015

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
Purity by SDS-PAGE Densitometry Scan	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 9 kDa accounts for >90% of total staining intensity (Figure 1)
SELDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence: 8,640 daltons	Measured mass within 0.03% of expected mass based on amino acid sequence: 8,638 daltons
Concentration by Bicinchoninic Acid Protein Assay ¹	Report results	1.14 mg per mL
Functional Activity by Western blot analysis Polyclonal anti-Stx2B ² Monoclonal anti-histidine tag ³	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Cytotoxicity in Vero Cells (Figure 4) NR-49262 Stx2 recombinant active holotoxin ⁴	Non-cytotoxic Cytotoxic	Non-cytotoxic Cytotoxic
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 4.38 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using BSA as a standard

Date: 15 DEC 2015

Signature:

BEI Resources Authentication

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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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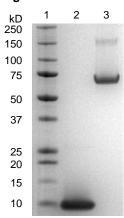
²BEI Resources NR-9352, Polyclonal Anti-Shiga Toxin 2 Subunit B (IgG, Rabbit) (1:1000 dilution)

³R & D Systems[®] Cat. No. MAB050 (IgG1) (1:1000 dilution)

⁴BEI Resources NR-4478, Shiga Toxin Type 2, Recombinant from Escherichia coli

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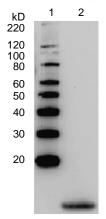
Figure 1: SDS-PAGE



Lane 1: Precision Plus Protein™ Standard

Lane 2: NR-49262, 2.0 µg Lane 3: BSA, 2.0 µg

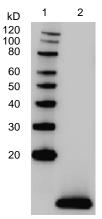
Figure 2: Western Blot with Polyclonal Anti-Stx2B



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-49262, 2.0 µg

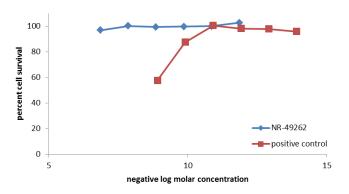
Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-49262, 2.0 µg

Figure 4 - Vero Cell Cytotoxicity Assay



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