

Shiga Toxin Type 2 Subunit B, Recombinant from *Escherichia coli*

Catalog No. NR-49262

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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: 70083743

Manufacturing Date: 24JUN2026

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 10 kDa accounts for 97% of total staining intensity (Figure 1)
MALDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence: 8,640 daltons	Measured mass within 0.12% of expected mass based on amino acid sequence: 8,628 daltons
Concentration by Bicinchoninic Acid Protein Assay¹	Report results	1.16 mg/mL
Final Product Quantity per vial Volume per vial	Report results Report results	266.8 µg 230 µL
Identification by Western Blot Monoclonal anti-histidine tag ² Polyclonal anti-Stx2B ³	Reactive Reactive	Reactive (Figure 2A) Reactive (Figure 2B)
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 4.32 EU/mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using bovine serum albumin (BSA) as a standard.

²Using a 1:2000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:2000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

³Using a 1:1000 dilution of rabbit polyclonal anti-Shiga Toxin Type 2 Subunit B (BEI Resources NR-51175) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-rabbit IgG (R&D Systems HAF008) as secondary antibody.

Certificate of Analysis for NR-49262

Figure 1: SDS-PAGE Analysis

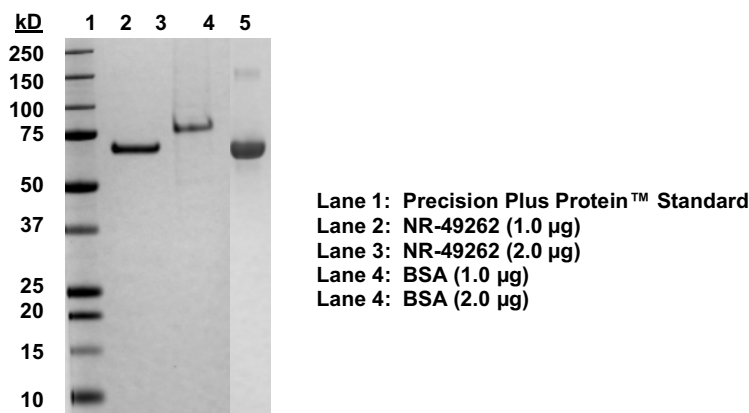
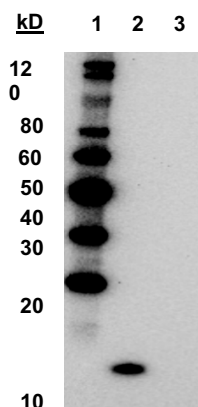


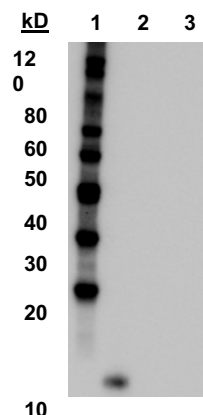
Figure 2: Western Blot Analysis

A: Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-49262 (0.5 µg)
Lane 3: BSA (0.5 µg)

B: Polyclonal Anti-Stx2B



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-49262 (0.5 µg)
Lane 3: BSA (0.5 µg)

/Sonia Bjorum Brower/

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24 JUL 2026

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