

Ricin Toxin B Subunit with N-Terminal Histidine Tag, Recombinant from *Escherichia coli*
Catalog No. NR-854

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

Product Description: NR-854 is a recombinant form of the B subunit of ricin toxin. The amino acid sequence includes an N-terminal histidine tag (MRGSHHHHHTDPH) and amino acid residues 315 to 576 of the ricin toxin precursor. A QIAGEN pQE-31 vector was used to express the recombinant protein in *Escherichia coli*. The protein was purified by nickel affinity chromatography.

Lot¹: 63732545
Manufacturing Date: 18FEB2016

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (SYPRO Orange Densitometer Scan) (Figure 1)	Protein bands of interest represent > 95% of total staining intensity above background	Protein bands of interest represent ~ 85% of total staining intensity above background
Sequencing of Ricin B Gene in Plasmid Construct	Report results	Identical to GenBank: X03179
Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence: 30672 daltons	Measured mass within 1% of expected mass based on amino acid sequence: 30971 daltons
SELDI-TOF Mass Spectrometry of Trypsin Digest	> 50% of total residues accounted for in peptides of expected mass	~ 65% 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 (Figure 2) Rabbit polyclonal antibody to ricin holotoxin (BEI Resources NR-862) Carbonic Anhydrase (Negative Control)	Reactive Not reactive	Reactive Not reactive
Absorbance Ratio (OD₂₈₀/OD₂₆₀)	Report results	1.6
Endotoxin Content	Report results	<125 EU/mg

¹This item was manufactured and subjected to quality control testing by Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA

Date: 06 JUL 2016

Signature:

BEI Resources Authentication

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Certificate of Analysis for NR-854

Figure 1: SDS-PAGE

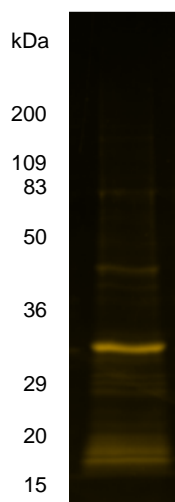
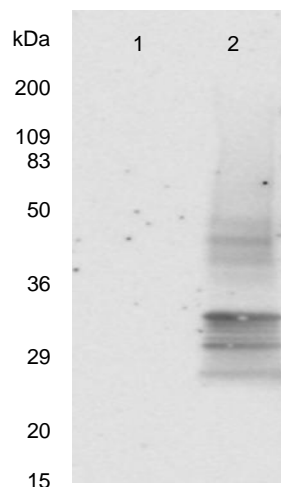


Figure 2: Western Blot



Lane 1: Carbonic Anhydrase (Negative Control)
Lane 2: NR-854