

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.

Lot: 5053476

Manufacturing Date: JUL2005

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (SYPRO Orange densitometer scan)	Dominant band ~ 31 kDa > 95% pure	Dominant band ~ 31 kDa > 96% pure (see Figure 1)
Sequencing of Ricin B Gene in Plasmid Construct	Report results	Identical to GenBank X03179 (nucleotides 1237 to 2021)
Mass Spectrometry	Report results (expected MW is 30,672 daltons based on amino acid sequence)	31,355 daltons (2.2% greater than expected MW)
SELDI-TOF Mass Spectrometry of Trypsin Digest	> 50% of total residues accounted for in peptides of expected mass	> 50% of total residues accounted for in peptides of expected mass
Concentration by Bicinchoninic Acid Protein Assay	Report results	1.0 mg/mL
Functional Activity Western Blot Rabbit polyclonal antibody to ricin holotoxin (BEI Resources NR-862) Rabbit polyclonal antibody to ricin B subunit (BEI Resources NR-864) Rabbit polyclonal antibody to ricin A subunit (BEI Resources NR-863) Mouse monoclonal antibody to ricin B subunit (BEI Resources NR-842) Mouse monoclonal antibody to ricin A subunit (BEI Resources NR-843)	Report results Report results Not reactive Reactive Not reactive	Reactive (see Figure 2) Not reactive Not reactive Reactive Not reactive
Absorbance Ratio (OD₂₈₀/OD₂₆₀)	Report results	1.5
Endotoxin Content	Report results	379 EU/mg



Date: 08 JUL 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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