

Bacillus anthracis* Hypothetical Protein p5303 (Locus_Tag: BA_5699) with N-Terminal Histidine Tag, Recombinant from *Escherichia coli

Catalog No. NR-12130

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

Product Description: NR-12130 is a recombinant form of the *Bacillus anthracis* (*B. anthracis*) hypothetical protein p5303 (locus_tag: BA_5699) which is known to be expressed in the exosporium.

Lot: 58394252

Manufacturing Date: 27JAN2009

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless, no particulate matter	Clear and colorless, no particulate matter
SDS-PAGE (SYPRO Orange densitometer scan)	Report results	Dominant dimer band represents >90% of total protein, monomer and trimer bands also observed (Figure 1)
SELDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence (17211 Da)	Measured mass within 0.7% of expected mass based on amino acid sequence (17102 Da)
SELDI-TOF Mass Spectrometry of Protease Digested Protein	> 50% of total residues accounted for in peptides of expected mass	75% of total residues accounted for in peptides of expected mass
Concentration by Bicinchoninic Acid Protein Assay	Report results	0.02 mg/mL
Functional Activity by Western Blot ¹ (Figure 2) Recombinant <i>B. anthracis</i> p5303 (NR-12130) Carbonic anhydrase	Reactive Non-reactive	Reactive Non-reactive
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized
Absorbance Ratio (OD ₂₈₀ /OD ₂₆₀)	Report results	1.25

¹Using rabbit polyclonal antibody to *B. anthracis* hypothetical protein p5303 (BEI Resources NR-12131)

Figure 1 – SDS-PAGE

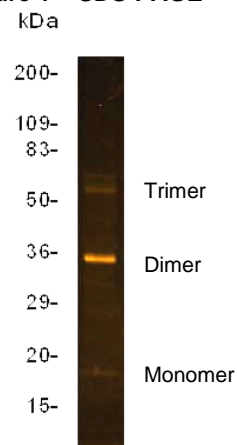
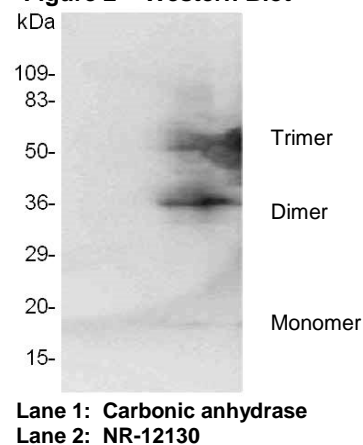


Figure 2 – Western Blot



Date: 03 DEC 2014

Signature:



Title: Technical Manager, BEI Authentication or designee

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