

***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: 59286321**

**Manufacturing Date: 01SEP2011**

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange densitometer scan)	Report results	Major band represents >95% of total protein <sup>1</sup> (Figure 1)
SELDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence (17130 Da)	Measured mass within 0.5% of expected mass based on amino acid sequence (17130 Da)
Concentration by Bicinchoninic Acid Protein Assay	Report results	0.02 mg/mL
Protein Content	Report results	0.01 mg/vial
Functional Activity by Western Blot <sup>2</sup> (Figure 2) Recombinant <i>B. anthracis</i> p5303 (NR-12130) Carbonic anhydrase	Reactive Non-reactive	Reactive <sup>1</sup> Non-reactive
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

<sup>1</sup>Protein runs as a dimer on the SDS-PAGE gel.

<sup>2</sup>Using rabbit polyclonal antibody to *B. anthracis* hypothetical protein p5303 (BEI Resources NR-12131)

Figure 1 – SDS-PAGE

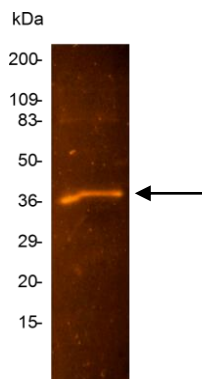
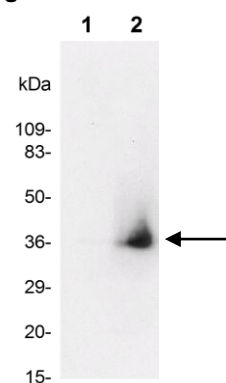


Figure 2 – Western Blot



Lane 1: Carbonic Anhydrase  
Lane 2: NR-12130

## Certificate of Analysis for NR-12130

**Date:** 03 DEC 2014

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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