

Bacillus anthracis* Exosporium Basal Layer Protein BxpB (Locus_Tag: BA_1237) with N-Terminal Histidine Tag, Recombinant from *Escherichia coli

Catalog No. NR-12132

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

Product Description: NR-12132 is a recombinant form of the *Bacillus anthracis* (*B. anthracis*) protein BxpB (locus_tag: BA_1237) which is known to be expressed in the exosporium and localized to the exosporium basal surface.

Lot: 58394254

Manufacturing Date: 28JAN2009

| TEST | SPECIFICATIONS | RESULTS |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Appearance | Clear and colorless, no particulate matter | Clear and colorless, no particulate matter |
| SDS-PAGE (SYPRO Orange densitometer scan) | Report results | Monomer and dimer bands represent >95% of total protein (Figure 1) |
| SELDI-TOF Mass Spectrometry | Measured mass within 5% of expected mass based on amino acid sequence (19494 Da) | Measured mass within 0.4% of expected mass based on amino acid sequence (19416 Da) |
| SELDI-TOF Mass Spectrometry of Protease Digested Protein | > 50% of total residues accounted for in peptides of expected mass | 77% of total residues accounted for in peptides of expected mass |
| Concentration by Bicinchoninic Acid Protein Assay | Report results | 0.68 mg/mL |
| Functional Activity by Western Blot ¹ (Figure 2) Recombinant <i>B. anthracis</i> BxpB (NR-12132) 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 | 0.93 |

¹Using rabbit polyclonal antibody to *B. anthracis* BxpB (BEI Resources NR-12133)

Figure 1 – SDS-PAGE

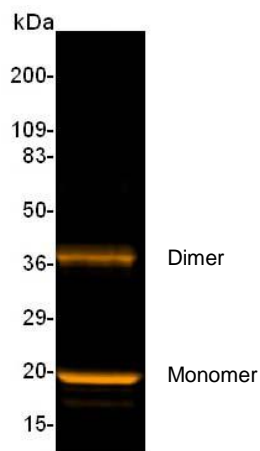
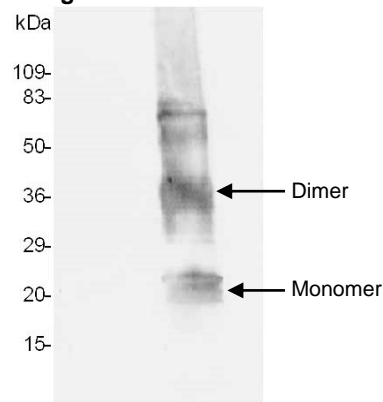


Figure 2 – Western Blot



Lane 1: Carbonic anhydrase
 Lane 2: NR-12132

Date: 03 DEC 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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