

Bacillus anthracis* Collagen-like Protein BclA (Locus Tag: BA_1222) with N-terminal Histidine Tag, Recombinant from *Escherichia coli

Catalog No. NR-9577

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

Product Description: NR-9577 is a recombinant form of the *Bacillus anthracis* collagen-like protein (BclA), a major component of the exosporium.

Lot: 60951358

Manufacturing Date: 06JUN2012

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange Densitometer Scan) ¹	Purified protein represents > 95% of staining intensity	Purified protein represents > 95% of staining intensity (Figure 1)
SELDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence (39.0 kDa)	Measured mass is within 0.4% of expected mass based on amino acid sequence (38.8 kDa)
Identification by SELDI-TOF Mass Spectrometry of Protease Digested Protein	> 50% of total residues accounted for in peptides of expected mass	67% of total residues accounted for in peptides of expected mass
Concentration by Bicinchoninic Acid Protein Assay	0.5 mg/mL ± 20%	0.5 mg/mL
Protein Content	80 to 120 µg per vial	100 µg/vial
Functional Activity by Western Blot ² (Figure 2) Recombinant BclA (NR-9577) Carbonic anhydrase	Reactive Non-reactive	Reactive Non-reactive
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized
Endotoxin Content (Limulus Amoebocyte Lysate)	< 10000 EU/mg	< 500 EU/mg
Absorbance Ratio (OD ₂₈₀ /OD ₂₆₀)	Report results	1.4

¹BclA has an aberrant electrophoretic mobility as described in the initial description of the protein.

²Using rabbit polyclonal antibody to BclA (BEI Resources NR-9578)

Date: 24 NOV 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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Figure 1: SDS-PAGE

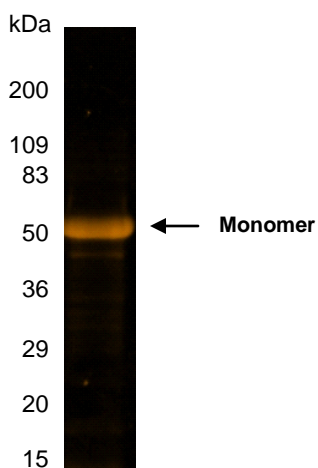
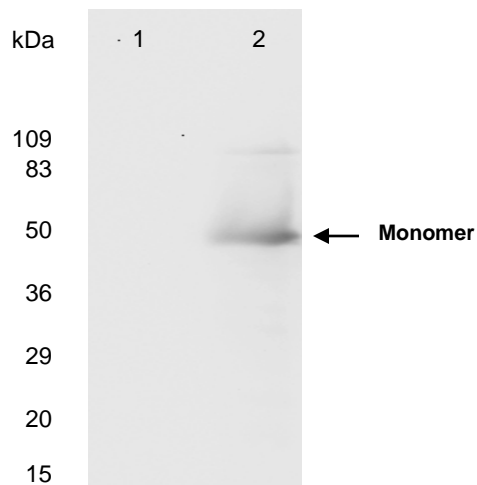


Figure 2: Western Blot



Lane 1: Carbonic anhydrase

Lane 2: NR-9577