

***Bacillus anthracis* Collagen-like Protein BclA with N-terminal Histidine Tag, Recombinant from *Escherichia coli***

**Catalog No. NR-50655**

**Product Description:** NR-50655 is a recombinant form of the *Bacillus anthracis* collagen-like protein (BclA), a major component of the exosporium.

**Lot<sup>1</sup>: 70005531**

**Manufacturing Date: 29MAR2018**

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (Coomassie Blue Stain) <sup>2</sup>	Purified protein represents > 90% of staining intensity	Purified protein represents > 95% of staining intensity (Figure 1)
MALDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence (38999 Da)	Measured mass within 0.7% of expected mass based on amino acid sequence (39259 Da)
Concentration by Bicinchoninic Acid Protein Assay <sup>3</sup>	0.5 mg per mL ± 20%	0.475 mg per mL
Protein Content	80 to 120 µg per vial	114 µg per vial
Western Blot Analysis Polyclonal anti-BclA <sup>4</sup> Monoclonal anti-histidine tag <sup>5</sup>	Reactive Reactive	Reactive Reactive (Figure 2)
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized
Endotoxin Content Limulus Amoebocyte Lysate assay <sup>6</sup>	< 1000 EU per mg	14.04 EU per mg

<sup>1</sup>The recombinant protein was expressed in *Escherichia coli* and purified by nickel affinity chromatography.

<sup>2</sup>BclA is known to exhibit aberrant electrophoretic mobility as described in the initial description of the protein.

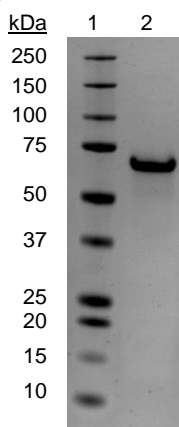
<sup>3</sup>Using BSA as a standard

<sup>4</sup>BEI Resources NR-9578, Polyclonal Anti-*Bacillus anthracis* Collagen-like Protein BclA (immunoglobulin G, Rabbit) (1:5000 dilution)

<sup>5</sup>R & D Systems® (Cat. No. MAB050) (IgG1) (1:1000 dilution)

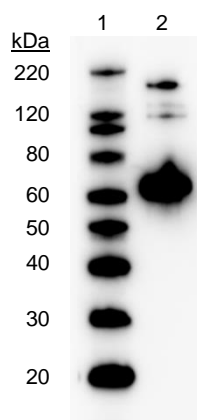
<sup>6</sup>Endosafe PTS Cartridge, Charles River Laboratories, Inc., Catalog Number PTS2005F

**Figure 1: SDS-PAGE**



Lane 1: Precision Plus Protein™ Standard  
Lane 2: NR-50655, 1 µg

**Figure 2: Western Blot with Anti-His Tag mAb**



Lane 1: MagicMark™ XP Western Standard  
Lane 2: NR-50655, 0.25 µg

/Heather Couch/  
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30 JUL 2018

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