

**Bacillus anthracis Spore Coat Protein GerQ (Locus Tag: BA\_5641) with N-Terminal Histidine Tag, Recombinant from Escherichia coli**

**Catalog No. NR-10435**

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

**Product Description:** NR-10435 is a recombinant form of the *Bacillus anthracis* spore coat protein GerQ (also YwdL; locus\_tag: BA\_5641), a component of the proteinaceous layer surrounding the spore's outer membrane. The recombinant protein was expressed in *Escherichia coli* and purified by nickel affinity chromatography. NR-10435 has a theoretical molecular weight of approximately 18.5 kilodaltons.

**Lot<sup>1</sup>: 63732533**

**Manufacturing Date: 13NOV2015**

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange Densitometer Scan) (Figure 1)	Purified protein represents > 95% of staining intensity	Purified protein represents > 95% of staining intensity
SELDI-TOF Mass Spectrometry	Measured mass within 5% of expected mass based on amino acid sequence (18460 Da)	Measured mass (18371 Da) within 0.5% of expected mass (18460 Da) based on amino acid sequence
Identification by SELDI-TOF Mass Spectrometry of Protease Digested Protein	> 50% of total residues accounted for in peptides of expected mass	78% 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 <sup>2</sup> (Figure 2) Recombinant GerQ (NR-10435) Carbonic anhydrase	Reactive Non-reactive	Reactive <sup>3</sup> Non-reactive
Endotoxin Content (Limulus Amoebocyte Lysate)	< 10000 EU/mg	< 12.5 EU/mg
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized

<sup>1</sup>This item was manufactured and subjected to quality control testing by Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA

<sup>2</sup>Using rabbit polyclonal antibody to GerQ (BEI Resources NR-10436)

<sup>3</sup>Higher molecular weight species may represent aggregates of the monomer.

**Date:** 11 MAY 2016

**Signature:**



BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

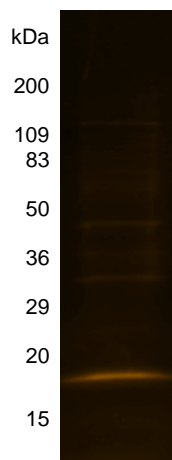
ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

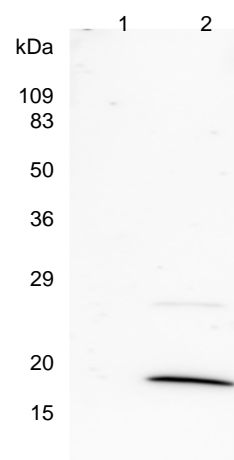


# Certificate of Analysis for NR-10435

**Figure 1: SDS-PAGE**



**Figure 2: Western Blot**



Lane 1: Carbonic anhydrase  
Lane 2: GerQ; NR-10435