

Bacillus anthracis* Edema Factor (Native Sequence), Recombinant from *Escherichia coli

Catalog No. NR-13413

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

Product Description: The native protein sequence of *Bacillus anthracis* edema factor (EF) was expressed in *Escherichia coli* and purified by ion exchange chromatography.

Lot: 62573349

Manufacturing Date: 20MAY2014

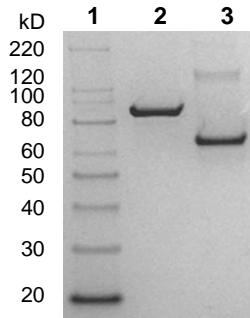
TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (Coomassie blue densitometer scan)	Protein band of interest represents > 95% of total staining intensity	Protein band of ~ 90 kDa represents > 95% of total staining intensity (Figure 1)
Concentration by Bradford Assay ¹	Report results	0.6 mg per mL
Identification by Western Blot ²	Reactive	Reactive (Figure 2)
Enzymatic Activity ³ Rate of conversion of cAMP to ATP in the presence of calmodulin and pyrophosphate	Report results	4.2 × 10 ³ s ⁻¹ mmol ⁻¹ EF
Endotoxin Content (Limulus Amoebocyte Lysate assay)	1 to 10000 EU per mg	< 80 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using BSA as a standard

²Using monoclonal anti-Anthrax edema factor, clone P2E3H4 antibody (BEI Resources NR-15473) at a 1:10,000 dilution

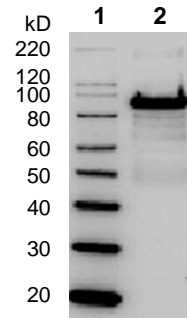
³Arbitrary units

Figure 1: SDS-PAGE



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-13413, 1 µg
Lane 3: BSA, 1 µg

Figure 2: Western Blot



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-13413, 0.5 µg

Date: 30 JUN 2014

Signature: *Michael R. Gypke*

Title: Technical Manager, BEI Authentication or designee

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