

Anthrax Edema Factor (EF), Recombinant from *Bacillus anthracis*

Catalog No. NR-36210

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Product Description: Recombinant anthrax edema factor (EF) was produced in a non-sporulating avirulent strain of *Bacillus anthracis* lacking both of the wild type plasmids, pX01 and pX02. Recombinant EF was purified using conventional chromatographic techniques. The resulting purified protein lacks all other anthrax virulence factors.

Lot: 1785A1A

Manufacturing Date: 06SEP2011

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE Densitometer Scan	~ 80-90 kDa band is ≥ 90% of total density	~ 80-90 kDa band is > 95% of total density
Functional Activity Adenylate cyclase activity in cell-free system (cAMP formation from ATP) ^{1,2}	Report results	1150 μM cAMP/minute/mg toxin protein
Endotoxin Content (Limulus Amoebocyte Lysate assay)	< 0.5 EU endotoxin per μg protein	0.0001 EU endotoxin per μg protein

¹Kumar, P., et al. "Anthrax Edema Toxin Requires Influx of Calcium for Inducing Cyclic AMP Toxicity in Target Cells." *Infect. Immun.* 70 (2002): 4997-5007. PubMed: 12183546.

²Hewlett, E. L., et al. "Adenylate Cyclase Toxin from *Bordetella pertussis*. Conformational Change Associated with Toxin Activity." *J. Biol. Chem.* 266 (1991): 17503-17508. PubMed: 1894634.

Date: 19 SEP 2012

Signature: 

Title: Technical Manager, BEI Authentication or designee

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