

Activated Epsilon Toxin, from *Clostridium perfringens*

Catalog No. NR-4670

(Derived from ATCC® 3626™)

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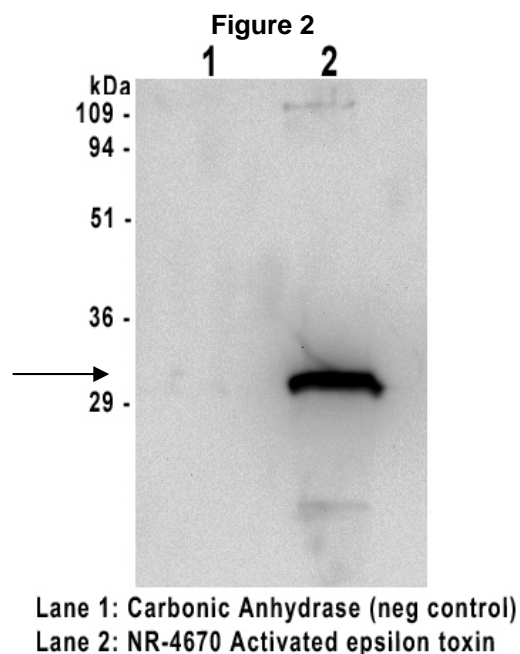
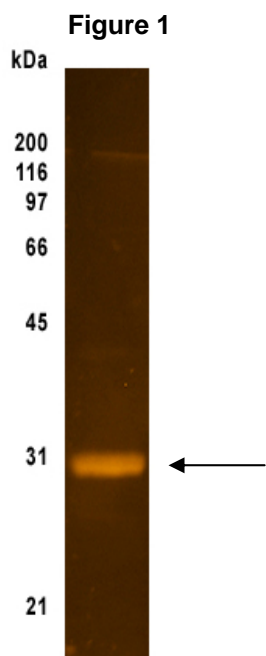
Product Description: Epsilon protoxin was purified from culture supernatants of *C. perfringens* ATCC® 3626™ and activated with trypsin to form the active pore-forming species.

Lot: 57680182

Manufacturing Date: 31MAY2007

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless with no particulate matter	Clear and colorless with no particulate matter
SDS-PAGE (SYPRO Orange densitometer scan)	Dominant band ~ 30 kDa > 95% pure	Dominant band ~ 30 kDa > 95% pure (see Figure 1)
SELDI-TOF Mass Spectrometry	Molecular weight within 5% of theoretical value (29.0 kDa)	Molecular weight within 3% of theoretical value (28.3 and 29.0 kDa)
SELDI-TOF Mass Spectrometry of Glutamic C Endopeptidase Digest	> 50% of total residues accounted for in peptides of expected mass	55 % of total residues accounted for in peptides of expected mass
Concentration by Bicinchoninic Acid Protein Assay	Report results	1.0 mg/mL
Functional Activity Western Blot (see Figure 2) ¹ Carbonic anhydrase NR-4670	Non-reactive Reactive	Non-reactive Reactive
Cytotoxicity in MDCK cells NR-4670 NR-856 (protoxin)	Report results Report results	CD ₅₀ = 0.1 µM CD ₅₀ > 2 µM
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized
Endotoxin Content	1 to 10000 EU/mg	< 12.5 EU/mg
Absorbance Ratio (OD₂₈₀/OD₂₆₀)	Report results	1.7

¹Completed with rabbit polyclonal immunoglobulin G to epsilon toxin peptides (NR-865).



Date: 01 AUG 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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