

Activated Epsilon Toxin, from *Clostridium perfringens*

Catalog No. NR-4670

(Derived from ATCC® 3626™)

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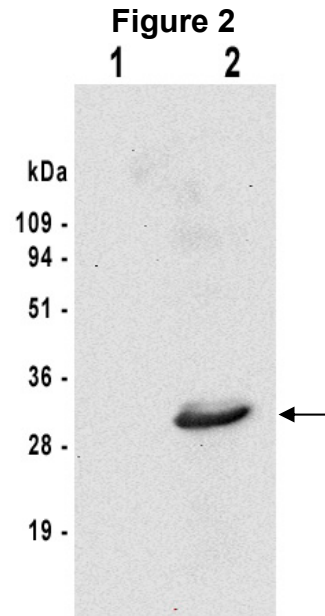
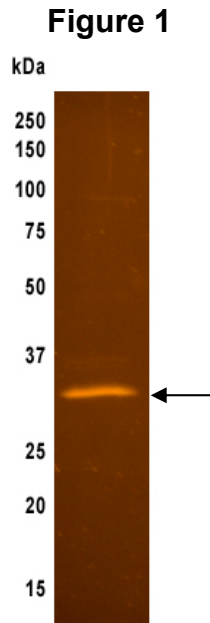
Product Description: Epsilon protoxin was purified from culture supernatants of *C. perfringens* ATCC® 3626™ and activated with trypsin to form the active pore-forming species.

Lot: 59534621

Manufacturing Date: 25NOV2010

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE (SYPRO Orange densitometer scan)	Dominant band ~ 30 kDa > 95% pure	Dominant band ~ 30 kDa > 98% pure (see Figure 1)
SELDI-TOF Mass Spectrometry	Measured mass within 5% of theoretical value (28973 daltons)	Measured mass within 0.4% of theoretical value (29093 daltons)
SELDI-TOF Mass Spectrometry of Glutamic C Endopeptidase Digest	> 50% of total residues accounted for in peptides of expected mass	68% 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	Report results	CD ₅₀ = 10 nM
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized
Endotoxin Content	< 10000 EU/mg	< 2.5 EU/mg
Absorbance Ratio (OD₂₈₀/OD₂₆₀)	Report results	1.6

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



Date: 22 AUG 2012

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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