

Clostridium Botulinum* Neurotoxin Type E Heavy Chain, Recombinant from *Pichia pastoris

It has been determined that the level of production documentation for Lot 0015040P/60-0404 of NR-4769 does not support its use in studies for product licensure. BEI Resources is releasing Lot 0015040P/60-0404 for research use only.

Catalog No. NR-4769

This reagent is the tangible property of the U.S. government.

Product Description: A recombinant form of a portion of the *Clostridium botulinum* type E heavy chain was expressed in *Pichia pastoris*. NR-4769 is a non-toxic, non-infective protein antigen that has been tested in rodents with no ill effects.

Lot: 0015040P/60-0404

Manufacturing Date: 25JAN2008

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless; may contain visible flocculation	Clear and colorless
SDS-PAGE (Reducing gel densitometer scan)	Major band ~ 52 kDa Conforms to reference molecular weight (MW) > 95% pure	Major band ~ 52 kDa Conforms to reference molecular weight (MW) > 99.6% pure
Western Blot Analysis with Specific Antibody	Major band ~ 52 kDa Conforms to reference MW	Major band ~ 52 kDa Conforms to reference MW
Reverse Phase HPLC	Major peak elution time is within 20% of the elution time of the major peak of the reference Conforms to reference standard	Major peak elution time (3.8 minutes) is within 20% of the elution time of the major peak of the reference (3.72 minutes) Conforms to reference standard
Strong Cation Exchange Chromatography	Report results	100% pure
Concentration by Absorbance at OD₂₈₀	0.20 ± 0.05 mg/mL ¹	0.14 mg/mL ²
pH	3.8 – 4.2	3.94
Sterility	0.22 µm filter sterilized	0.22 µm filter sterilized
Bioburden	≤ 1 colony-forming unit per mL	0 colony-forming unit per mL
Endotoxin Content (Limulus Amoebocyte Lysate assay)	< 17.5 EU per mg	< 6.75 EU per mg

¹Limit is set to gather information and not used for disposition.

²The result reported is 0.01 mg/mL below the limits value. This is potentially due to inherent assay variability and/or due to a post-thaw 0.22 µm absolute filtration performed prior to filling and/or due to the additional freeze/thaw cycle which the vial product underwent prior to product release analysis. The concentration does not negatively affect the product quality or use of the product.

Date: 16 APR 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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