SUPPORTING INFECTIOUS DISEASE RESEARCH

Anthrax Lethal Factor (LF-A), Native Sequence, Recombinant from Bacillus anthracis

Catalog No. NR-28544

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

Product Description: Recombinant anthrax LF-A was produced in a non-sporulating avirulent strain of *Bacillus anthracis* lacking both of the wild type plasmids, pX01 and pX02. Recombinant LF-A was purified using conventional chromatographic techniques. The resulting purified protein lacks all other anthrax virulence factors. LF-A has been reported to have 3-fold higher potency than LF-HMA in cell culture cytotoxicity assays and in rat lethality studies.

Lot: 1693A1

Manufacturing Date: 22JUN2011

TEST	SPECIFICATIONS	RESULTS
IESI	SPECIFICATIONS	RESOLIS
Appearance ^{1,2}	Clear and colorless	Clear and colorless
SDS-PAGE (Coomassie Blue Densitometer Scan) ²	 ~ 80–90 kDa band is ≥ 90% of total density 	~ 80–90 kDa band is 97% of total density
Electrospray Mass Spectrometry ²	90,226 ± 45 Da	90,246 Da
N-Terminal Analysis ²	Correct N-terminus to 6 residues	Correct N-terminus to 10 residues
Concentration by Modified Bradford Assay ^{1,3}	Report results	1.0 mg per mL
Functional Activity Cleavage of MAPKKide [®]	Report results	0.154 units/mg
Cytotoxicity assay [determination of effective concentration (EC ₅₀) by titration of LF-A in J774A.1 macrophage cells] ²	LF-A with 1 μ g/mL PA: EC ₅₀ ≤ 500 pM	14 pM
Microbial Content ²	No detectable colony-forming units	No detectable colony-forming units
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	< 0.5 EU endotoxin per µg protein	0.015 EU endotoxin per µg protein
Absorbance Ratio (OD ₂₈₀ /OD ₂₆₀) ²	≥ 1.7	2.1
Absorbance (OD ₃₂₀) ²	≤ 10	0.0083

¹Prior to lyophilization

²Performed on another lot of NR-28544 that was prepared from the same bulk material as this lot ³Using BSA as a standard

Date: 30 MAY 2017

Signature:

BEI Authentication or designee

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.



 $ATCC^{\circledast}$ is a trademark of the American Type Culture Collection. You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370 Fax: 703-365-2898