

Anthrax Lethal Factor (LF-HMA), Recombinant from *Bacillus anthracis*

Catalog No. NR-723

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

Lot: 1722B13

Manufacturing Date¹: 01AUG2002

TEST	SPECIFICATIONS	RESULTS
Appearance ²	Clear and colorless	Clear and colorless
SDS-PAGE (Coomassie Blue Densitometer Scan)	~ 80–90 kDa band is ≥ 90% of total density	~ 80–90 kDa band is 92% of total density
Electrospray Mass Spectrometry	Report results	Comparable to control
Concentration by modified Bradford Assay ^{2,3}	Report results	0.97 mg per mL
Functional Activity Cleavage of MAPKKide [®] Cytotoxicity assay [determination of effective concentration (EC ₅₀) by titration of LF-HMA in J774A.1 macrophage cells]	Report results LF-HMA with 1 µg/mL PA: EC ₅₀ ≤ 500 pM	0.166 units/mg 21 pM
Microbial Content	No detectable colony-forming units	No detectable colony-forming units
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	< 0.5 EU endotoxin per µg protein	0.00124 EU endotoxin per µg protein
Absorbance Ratio (OD ₂₈₀ /OD ₂₆₀)	≥ 1.7	2.1
Absorbance (OD ₃₂₀)	≥ 0.1	0.0120

¹Stored as bulk LF-HMA from August, 2002 until June, 2011. Bulk was aliquoted and lyophilized on 22 June 2011.

²Prior to lyophilization

³Using BSA as a standard

Date: 05 JUL 2012

Signature: 

Title: Technical Manager, BEI Authentication or designee

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