

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

Catalog No. NR-36209

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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: 1722B11A

Manufacturing Date¹: 01AUG2002

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Coomassie Blue Densitometer Scan)	~ 90 kDa band is ≥ 90% of total density	~ 90 kDa band is 90% of total density
Concentration by Modified Bradford Assay^{2,3}	Report results	1 mg per mL
Functional Activity Cleavage of MAPKKide [®]	Report results	0.184 units per mg
Cytotoxicity assay [determination of effective concentration (EC ₅₀) by titration of LF-HMA in J774A.1 macrophage cells]	LF-HMA with 1 µg/mL PA: EC ₅₀ ≤ 500 pM	34.6 pM
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	< 0.5 EU per µg protein	0.0021 EU per µg protein

¹Stored as bulk LF-HMA from August, 2002 until January, 2010. Bulk was aliquoted and lyophilized on 06 January 2010.

²Prior to lyophilization

³Using BSA as a standard

Date: 19 OCT 2012

Signature:



Title: Technical Manager, BEI Authentication or designee

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