

Anthrax Lethal Factor (LF-HMA), Recombinant from *Bacillus anthracis*
Catalog No. NR-36209

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

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:

Dorothy C. Young

Title: Technical Manager, 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[®] 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.

