Recombinant Limulus Antilipopolysaccharide Factor

Cat. No. ALF-240L **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Source	P.pastoris
Description	Recombinant LALF, entire coding region for limulus antilipopolysaccharide factor derived from Pichia pastoris. High affinity binding for LPS and bactericidal for gram negative bacteria. Can be used for endotoxin removal and detection. Bactericidal activity against gram negative bacteria. rLALF is a 12,000 dalton protein. Reacts with specific antisera in ELISA and Western blots. The rLALF is purified by proprietary chromatographic techniques.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing no additives.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.
Biological Activity	Antibacterial activity against E. coli less than 10ug/ml at 10e6 PFU/ml. Binds to and inactivates endotoxin (LPS).
Endotoxin	Less than 0.1 ng/ɡ (IEU/ɡ) of rLALF.
Protein content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm. 2. Analysis by RP-HPLC.

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Solubility	It is recommended to reconstitute the lyophilized rLALF in sterile 20mM acetic acid not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized rLALF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rLALF should be stored at 4°Cbetween 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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