

## Limulus LALF - Purified

**Catalog No.:** AR10742PU-L

**Quantity:** 0.5 mg

**Background:** LALF has been isolated from the membranes of amoebocytes of *Limulus polyphemus*. LALF is a single-chain polypeptide with a molecular weight of 11,800. The principal structure of the molecule consists of 102 amino acids and is partially homologous with structures of molecules in the lactalbumin-lysozyme family. LALF has a high affinity binding for LPS and bactericidal for gram negative bacteria. LALF binds the lipid A part of a variety of chemically diverse LPSs. It can be used for endotoxin removal and detection. LALF reacts with specific antisera in ELISA and Western blots.

**Species:** *Limulus*

**Source:** *P. pastoris*

**Format:** **State:** Sterile Filtered White lyophilized (freeze-dried) powder  
**Purity:** > 95.0% as determined by both RP-HPLC and SDS-PAGE analysis  
**Buffer System:** Lyophilized from a concentrated (1 mg/ml) solution containing no additives  
**Reconstitution:** Restore in sterile 20mM Acetic Acid not less than 100 µg/ml, which can then be further diluted to other aqueous solutions

**Description:** Recombinant LALF, entire coding region for *Limulus* antilipopopolysaccharide factor derived from *Pichia pastoris* LALF is a 12,000 dalton protein. The LALF is purified by proprietary chromatographic techniques.  
**Biological Activity:** Antibacterial activity against *E.coli* less than 10ug/ml at 10e6 PFU/ml. Binds to and inactivates endotoxin (LPS).

**Storage:** Prior to reconstitution store at 2-8°C.  
Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer.  
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.