

## LTA (Lipoteichoic Acid) ELISA Kit | LTA elisa kit

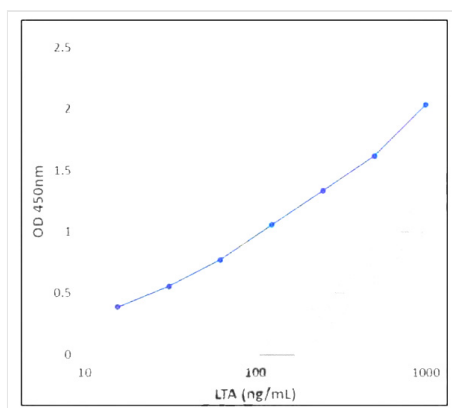
LTA (Lipoteichoic Acid) ELISA Kit

CATALOG #  
**AAA44686**

### PRODUCT SYNONYMS

LTA (Lipoteichoic Acid); LTA (Lipoteichoic Acid) ELISA Kit; LTA elisa kit

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for LTA elisa kit

Background: Lipoteichoic acid (LTA) is a major component of the cell wall in bacteria that are gram-positive. These bacteria contain an inner "cytoplasmic" membrane and, outside it, a thick layer of peptidoglycan (as much as 80 nanometers). The structure of LTA is different depending on the species of Gram-positive bacteria and may have long chains of ribitol or glycerol phosphate. LTA is affixed to the cell membrane via a diacylglycerol and acts as a regulator of autolytic wall enzymes known as muramidases. LTA can have immunogenic properties like other antigens and are able to stimulate specific immune responses. LTA from bacteria may bind to target mammalian cells either through membrane phospholipids, or to specific proteins such as CD14 and Toll-like receptors. Binding to TLR-2 has shown to induce expression of the transcription factor NF-kappaB, which results in increasing expression of both activating and inhibiting apoptotic genes. Activation of NF-kappaB also stimulates activation of mitogen-activated protein kinases (MAPK) as well as phosphoinositide 3-kinase (PI3K). The LTA ELISA Kit provides a quick and convenient system to measure LTA from mammalian serum, plasma, cell, or tissue samples; it provides sufficient reagents for up to 96 tests in a 96-well plate including standard curve and unknown samples. Detection sensitivity is 15.6 ng/mL.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elisa-kits/lta-lipoteichoic-acid/44686>