

# Staphylococcus aureus Lipoteichoic acid (LTA)

Catalog #: 1600-001

Lot #: 1306008

**Description:** Highly Purified lipoteichoic acid (LTA) from *Staphylococcus aureus*.

**Supplied:** 5.0 mg supplied as a lyophilized powder.

Storage: 4°C

**Relevance:** LTA can be found at the cell surface of most gram-positive bacteria. Few pathogen recognition receptors have been reported for LTA and a more precise biological role of LTA is still under investigation. When expressed on the cell exterior, LTA is thought to act as an adhesion as well as mediating inflammatory responses in the host.

## **Product Specifications:**

Test	Specification		
Appearance	Lyophilized powder, white to faint yellow		
Protein Content (% Protein)	0.24%		
Phosphate Content	6 μmole/mg LTA		
LPS	0.016EU/mg		
Nucleic acid Content (%)	< 2%		

#### **ELISA Testing:**

	Positive Control sera		Negative Control sera	
Dilution	LTA @ 1 μg	LTA @ 0.2 μg	LTA @ 1 μg	LTA @ 0.2 μg
200	3.897	3.810	0.076	0.188
400	3.671	3.543	0.083	0.101
800	3.290	2.859	0.073	0.093
1600	2.447	1.773	0.067	0.148
3200	1.322	0.938	0.070	0.104
6400	0.778	0.463	0.061	0.115
12800	0.377	0.244	0.062	0.120
25600	0.190	0.126	0.058	0.111
51200	0.106	0.088	0.058	0.123
102400	0.070	0.075	0.062	0.138
Background	0.047	0.059	0.117	0.066

### TLR2 Stimulation: Not tested

#### References

- 1. The Physiology and Biochemistry of Prokaryotes, 2nd ed., White, D., Oxford University Press (New York, NY: 999), p.16.
- 2. Schroder, et al., J. Biol. Chem. 2003, 278:15587-15594.