

Datasheet: 0100-0035

**BATCH NUMBER 180410**

<b>Description:</b>	NATIVE LIPOTEICHOIC ACID
<b>Name:</b>	LIPOTEICHOIC ACID
<b>Other names:</b>	LTA
<b>Format:</b>	Purified
<b>Product Type:</b>	Antigen
<b>Quantity:</b>	1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			*

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Purified lipoteichoic acid - liquid
<b>Preparation</b>	Prepared by phenolic extraction and supplied at 1.0 mg/ml with a protein concentration $\leq$ 3%
<b>Preservative Stabilisers</b>	None present.
<b>Product Information</b>	Native lipoteichoic acid (LTA) purified from <i>Staphylococcus aureus</i> .

LTA is a linear polymer of phosphodiester-linked glycerol phosphate covalently attached to lipid. The lipid binds hydrophobically to the cell membrane and the polyglycerol phosphate portion extends into the cell wall. The biological role of LTA is not fully understood but when expressed on the cell exterior it is thought to act as an adhesin.

CAS Number: 56411-57-5

**ELISA** \*When coating use 10 ng - 1µg/well.

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**References** 1. Caslin, H.L. *et al.* (2019) Lactic Acid Inhibits Lipopolysaccharide-Induced Mast Cell Function by Limiting Glycolysis and ATP Availability. [J Immunol. 203 \(2\): 453-64.](#)

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**Storage** Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 2 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10078 available at: <https://www.bio-rad-antibodies.com/SDS/0100-0035>  
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**Regulatory** For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M374755:201127'

**Printed on 18 Jan 2024**

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