

***Mycobacterium leprae* Cell Wall Core (mAGP)**

**Catalog No. NR-19349**

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**For research use only. Not for human use.**

**Contributor:**

BEI Resources

**Manufacturer:**

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**Product Description:**

NR-19349 is a preparation of the mycolylarabinogalactan-peptidoglycan (mAGP) complex of *Mycobacterium leprae* (*M. leprae*) extracted from a pool of infected armadillo liver and spleen tissue.

The cell wall was isolated from *M. leprae* whole cell sonicate by centrifugation at 27,000 x g for one hour to obtain the cell wall pellet. The pellet was suspended in PBS with 2% SDS and the cell wall-associated proteins and lipoglycans were removed. Residual proteins were removed by further SDS extractions and proteinase-K treatment followed by multiple extractions with boiling SDS. The resulting mAGP was washed several times with water, and residual SDS was removed by extraction with large volumes of acetone.

**Material Provided:**

Each vial contains approximately 2 mg of lyophilized mAGP pooled from up to three different strains of *M. leprae*. Please refer to the Certificate of Analysis for information regarding the specific strains used in the production of each lot.

Note: mAPG can be reconstituted in either phosphate buffered saline or water. mAGP is poorly soluble and sonication is generally required to achieve a uniform suspension.

**Packaging/Storage:**

NR-19349 was packaged aseptically in cryovials. The product should be stored at room temperature or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium leprae* Cell Wall Core (mAGP), NR-19349."

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in

Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Marques, M. A., et al. "Mapping and Identification of the Major Cell Wall-Associated Components of *Mycobacterium leprae*." Infect. Immun. 66 (1998): 2625-2631. PubMed: 9596726.

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