

***Mycobacterium leprae* Cell Membrane Fraction (MLMA)**

**Catalog No. NR-19331**

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

**Contributor:**

BEI Resources or NIH – Leprosy Research Support Contract

**Manufacturer:**

Karen Dobos, PhD., Colorado State University, Fort Collins, Colorado, USA and NIH – Leprosy Research Support Contract

**Product Description:**

NR-19331 was produced from purified *Mycobacterium leprae* (*M. leprae*) whole cells (non-irradiated, non-autoclaved) extracted from a pool of infected armadillo liver and spleen tissue. Cells were sonicated for forty, one-minute cycles and an acid fast stain of the sonicate was performed to confirm complete breakage of the cells. The sonicate was centrifuged to pellet the cell wall material and the resulting supernatant was further centrifuged to pellet the cell membrane material. The cell membrane pellet was washed with phosphate buffered saline and the washed membrane preparation was quantitated for protein content by BCA assay.

Note: This preparation contains cytoplasmic membrane and components of the outer membrane.

**Material Provided:**

Each vial contains approximately 250 µg of lyophilized MLMA 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: MLMA can be reconstituted in distilled water, sterile phosphate buffered saline, pH 7.2, or another suitable buffer.

**Packaging/Storage:**

NR-19331 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°C 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 Membrane Fraction (MLMA), NR-19331.”

**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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