

***Mycobacterium leprae* Cytosol Fraction (MLSA)**

Catalog No. NR-19330

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Contributor:

BEI Resources or NIH – Leprosy Research Support Contract

Manufacturer:

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

Product Description:

NR-19330 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 final supernatant was collected and the protein content quantitated by BCA assay.

Note: In addition to cytosolic proteins, this preparation will contain soluble material released from the cell wall during the disruption process.

Material Provided:

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

Packaging/Storage:

NR-19330 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* Cytosol Fraction (MLSA), NR-19330.”

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.

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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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