

***Mycobacterium leprae* SDS-Soluble Cell Wall Fraction (MLCwA)**

Catalog No. NR-19333

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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-19333 was produced from purified *Mycobacterium leprae* (*M. leprae*) liver and spleen whole cells (non-irradiated, non-autoclaved) extracted from a pool of infected armadillo 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 which was washed three times with phosphate buffered saline to remove any contaminating cytosolic or membrane proteins. The washed pellet was resuspended in phosphate buffered saline and 2% sodium dodecyl sulfate (SDS) and heated. After one hour the mixture was centrifuged to remove the insoluble material. After two additional extractions the extracts were pooled and passed over an Extractigel-D column to remove the SDS. The final preparation was quantitated for protein content by BCA assay.

Material Provided:

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

Packaging/Storage:

NR-19333 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* SDS-Soluble Cell Wall Fraction (MLCwA), NR-19333.”

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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