

## ***Mycobacterium leprae* Total Lipids**

### **Catalog No. NR-19332**

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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 or NIH – Leprosy Research Support Contract

#### **Product Description:**

NR-19332 is a preparation of the total cellular lipids of *Mycobacterium leprae* (*M. leprae*), including those with known biological activities, including phenolic glycolipid I (PGL-I), II and III and dimycoserate (DIM). The cellular lipids were extracted from a pool of armadillo-derived purified liver and spleen whole cells with 5 mL of chloroform/methanol (2:1) per 200 mg of cells at 55°C for 18 hours. Cells were removed by filtration and contaminating hydrophilic molecules were removed by biphasic partitioning with water (Folch wash). The organic phase of the Folch wash was collected and dried.

#### **Material Provided:**

Each vial contains approximately 500 µg of dried total lipids 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: Total lipid is soluble in chloroform/methanol (2:1). Chloroform or DMSO can also be used depending on the downstream application.

#### **Packaging/Storage:**

NR-19332 was packaged aseptically in glass vials. The product is provided at room temperature and should be stored at room temperature in a dry atmosphere immediately upon arrival.

#### **Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium leprae* Total Lipids, NR-19332.”

#### **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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

#### **Disclaimers:**

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#### **References:**

1. Cole, S. T., et al. “Massive Gene Decay in the Leprosy Bacillus.” Nature 409 (2001): 1007-1011. PubMed: 11234002.
2. Hancock, C. I., et al. eds. Bacterial Cell Surface Techniques. New York: Wiley & Sons, 1988: 125-135.

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