

***Mycobacterium tuberculosis*, Strain Indo-Oceanic T17X, Total Lipids**

**Catalog No. NR-44099**

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**Contributor:**

BEI Resources

**Manufacturer:**

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA

**Product Description:**

NR-44099 is a preparation of the total cellular lipids of irradiated *Mycobacterium tuberculosis* (*M. tuberculosis*), strain Indo-Oceanic T17X, including those with known biological activities, such as trehalose dimycolate (TDM) and sulpholipids. The culture was grown to late log phase in glycerol-alanine-salts medium, washed with PBS, inactivated by gamma irradiation and dried. The cellular lipids were extracted with 30 mL of chloroform:methanol (2:1) per gram 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 5 mg of dried total lipids from *M. tuberculosis*, strain Indo-Oceanic T17X.

Note: Total lipid is soluble in chloroform:methanol (2:1). DMSO can also be used depending on the downstream application.

**Packaging/Storage:**

NR-44099 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 tuberculosis*, Strain Indo-Oceanic T17X, Total Lipids, NR-44099.”

**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/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Cole, S. T., et al. “Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence.” Nature 393 (1998): 537-544. PubMed: 9634230. Erratum in: Nature 396 (1998): 190-198.
2. Hancock, C. I., et al. eds. Bacterial Cell Surface Techniques. New York: Wiley & Sons, 1988. 125-135.

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