

***Mycobacterium tuberculosis*, Strain Indo-Oceanic T17X, Cell Membrane Fraction**

Catalog No. NR-36502

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Contributor:

BEI Resources

Manufacturer:

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Product Description:

NR-36502 is a preparation of the cell membrane fraction of *Mycobacterium tuberculosis*, strain Indo-Oceanic T17X, and contains the cytoplasmic membrane and components of the outer lipid layer.

The culture was grown to late log phase in glycerol-alanine-salts medium, washed with PBS, and inactivated by gamma irradiation. The bacilli were broken in a French Press pressure cell and unbroken cells were removed by low speed centrifugation. The cell wall was isolated by centrifugation at 27,000 x g. The supernatant was subjected to a 100,000 x g centrifugation for four hours and the resulting membrane pellet was washed with PBS, then suspended and dialyzed in 10 mM ammonium bicarbonate. Protein content was determined using the BCA protein assay.

Material Provided:

Each vial contains approximately 1 mg of protein in 10 mM ammonium bicarbonate provided as a frozen pellet.

Packaging/Storage:

NR-36502 was packaged aseptically in cryovials. The product is provided frozen on dry ice 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 tuberculosis*, Strain Indo-Oceanic T17X, Cell Membrane Fraction, NR-36502."

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.

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References:

1. Lee, B.-Y., S. A. Hefta and P. J. Brennan. "Characterization of the Major Membrane Protein of Virulent *Mycobacterium tuberculosis*." Infect. Immun. 60 (1992): 2066-2074. PubMed: 1563797.
2. 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.

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