

***Mycobacterium tuberculosis*, Strain Indo-Oceanic T17X, Cell Membrane Fraction****Catalog No. NR-36502**

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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.

**Lot: 61449189****Manufacturing Date: 01DEC2012**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 12.IO.11.15.MEM is attached.

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You are authorized to use this product for research use only. It is not intended for human use.



## WORK SHEET FOR MEMBRANE

### General Information

Product Lot Number: 12.IO.11.15.MEM

Species: *M. tuberculosis*

Strain: IO

### Sonication and Fractionation Information

Starting material (lot #): 12. IO.9.10.6.WCg

Cell amount (wet weight): 77.4g (Only ~37g used for this product)

SOP #: PP008.1 Notebook pages: Rachel Hazenfield Protein #1 pp. 94-96

Date of French Press Sonication: 11/15/2012; Buffer used: PBS-EDTA with protease inhibitor, DNase, and RNase

Centrifugation Notes centrifuged at 100,000 x g to recover from cytosol

Date 10 mM ammonium bicarbonate dialysis started: 11/29/2012

date completed: 12/01/2012

Notebook; page(s): Rachel Hazenfield Protein #1 pp. 94-95

### Quality Control Information

Clarity of product/suspension after dialysis: milky-beige (normal)

BCA: 0.708µg /µl.

Notebook and page(s): Rachel Hazenfield Protein #1 pg. 95

Total volume: 9.6 ml

Total amount of Protein: 6.8 mg

Silver Stain Date: 12/04/2012.

Notebook and page(s): Rachel Hazenfield Protein #1 pg. 96

QC Gel:



### Aliquot Information:

\*Aliquot information reflects aliquots made at the time of QC. Bulk aliquots will be broken down as needed.

6x 1 mg; 1 x 0.8 mg

Rachel Hazenfield  
(Research Associate) (date)

[Signature] 12/18/2012  
(Laboratory Supervisor) (date)