

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: 62976457**Manufacturing Date: 20FEB2015**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 15.IO.02.23.MEM is attached.

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

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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

BEI Catalog Number: NR-36502
Product Lot Number: 15.IO.02.23.MEM
Species: Mycobacterium tuberculosis
Strain: Indo-Oceanic T17X

Sonication and Fractionation Information

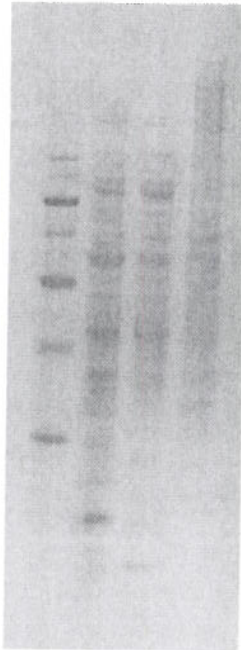
Starting material (lot #): 13.IO.11.12.4.WCg.a
Cell amount (wet weight): 103.7g
SOP #: PP008.3 Notebook pages: 51
Date of French Press Sonication: 02/13/15; Buffer used: PBS +1mM EDTA with protease inhibitor
Centrifugation Notes Centrifuged 2x at 100.000xg to separate membrane
Date 10 mM ammonium bicarbonate dialysis started: 02/18/15
date completed: 02/20/15
Notebook; page(s): PMF/TVTRM #1, 52-53

Quality Control Information

BCA: 4.00 $\mu\text{g}/\mu\text{l}$. Notebook and page(s): PMF/TVTRM #1, 54
Total Protein: 110 mg
Silver Stain Date: 02/23/15. Notebook and page(s): PMF/TVTRM #1, 56

QC Gel:

MEM CYT CW



Aliquot Information:

40 x 1mg for BEI
20 x 1 mg for IHO
Bulk 12.5mL @ 4 $\mu\text{g}/\mu\text{l}$

C. Schaffy 02.25.15
(Research Associate) (date)

[Signature] 2/25/2015
(Laboratory Supervisor) (date)