

***Mycobacterium tuberculosis*, Strain CDC1551, Cell Membrane Fraction**

**Catalog No. NR-14832**

This reagent is the tangible property of the U.S. Government.

**Product Description:**

NR-14832 is a preparation of the cell membrane fraction of *Mycobacterium tuberculosis*, strain CDC1551, and contains the cytoplasmic membrane and components of the outer lipid layer.

**Lot: 62345839<sup>1</sup>**

**Manufacturing Date: 13MAY2014**

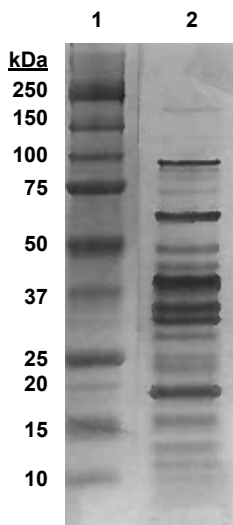
| TEST   | SPECIFICATIONS | RESULTS                                   |
|--|----------------|---|
| SDS-PAGE (Silver Stain) <sup>2</sup>                             | Report results | Multiple protein bands visible (Figure 1) |
| Concentration by Bicinchoninic Acid Protein Assay <sup>2,3</sup> | Report results | ~ 0.87 µg per µL                          |

<sup>1</sup>Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 14.CSU93.5.14.MEM is attached.

<sup>2</sup>Retesting of NR-14832 lot 62345839 was performed by BEI Resources in July 2019 to confirm product stability.

<sup>3</sup>Using BSA as a standard

**Figure 1: SDS-PAGE and Silver Stain**



Lane 1: Precision Plus Protein™ Standard  
 Lane 2: NR-14832 lot 62345839, ~ 8 µg

/Heather Couch/  
 Heather Couch

05 SEP 2019

Program Manager or designee, ATCC Federal Solutions

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## WORK SHEET FOR MEMBRANE

### General Information

BEI Catalog Number: 62345839  
Product Lot Number: 14.CSU93.5.14..MEM  
Species: M. Tuberculosis  
Strain: CDC1551

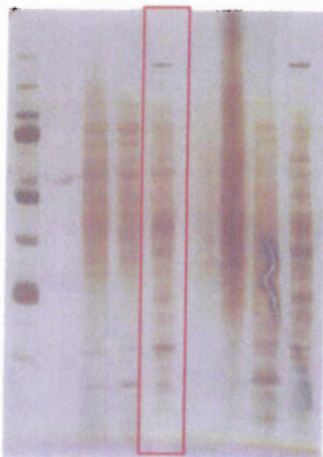
### Sonication and Fractionation Information

Starting material (lot #): 14.CSU93.2.4.4.WCg  
Cell amount (wet weight): 76.9g  
SOP #: PP008.1 Notebook pages: Rachel Hazenfield Protein #2 pp. 107-110  
Date of French Press Sonication: 4/28/14 & 5/5/14; 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: 5/12/14  
date completed: 05/13/14   
Notebook; page(s): Rachel Hazenfield Protein #2 pg.109


### Quality Control Information

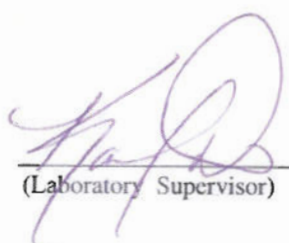
Clarity of product/suspension after dialysis: Milky-beige (normal)  
BCA: 0.803 µg /µl Notebook and page(s): Rachel Hazenfield Protein #2 pg.109  
Total volume: 99.38ml Total amount of Protein: 79.8mg  
Silver Stain Date: 5/14/14 Notebook and page(s): Rachel Hazenfield Protein #2 pg. 110

### QC Gel:



**Aliquot Information:**  
79 x 1 mg; 1 x 0.8mg

  
(Research Associate) 5/15/14  
(date)

  
(Laboratory Supervisor) 5/16/14  
(date)