

***Mycobacterium tuberculosis*, Strain H37Rv, Culture Filtrate Proteins**

**Catalog No. NR-14825**

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

**Product Description:** NR-14825 is a preparation of culture filtrate proteins (CFP) from *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv and contains most of the excreted and secreted proteins of the organism.

**Lot<sup>1</sup>: 2086**

**Manufacturing Date: 22NOV2016**

TEST	SPECIFICATIONS	RESULTS
<b>SDS-PAGE (Silver Stain)</b>	Report results	Multiple protein bands visible (Figure 1)
<b>Concentration by Bicinchoninic Acid Protein Assay<sup>2</sup></b>	Report results	2.13 mg per mL
<b>Final Product</b> Quantity per vial Volume per vial	Report results Report results	1.06 mg 0.500 mL
<b>Western Blot Analysis</b> Monoclonal anti-SodA <sup>3</sup> Monoclonal anti-GroEL2 <sup>4</sup> Monoclonal anti-Ag85 Complex <sup>5</sup> Monoclonal anti-GroES <sup>6</sup> Monoclonal anti-PhoS1 <sup>7</sup> Monoclonal anti-DnaK <sup>8</sup> Monoclonal anti-DnaK <sup>9</sup>	Reactive Reactive Reactive Reactive Reactive Reactive Reactive	Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2)

<sup>1</sup>Production was performed by Colorado State University (CSU) and provided as a bulk lot. NRC-14825 bulk lot 60398910 (CSU bulk lot 11.Rv.2.8.15.4.CFP) was aliquoted on 22NOV2016 as NR-14825 lot 2086. Testing by BEI Resources was performed on NR-14825 lot 2086 after vialing. The CSU documentation for bulk lot 11.Rv.2.8.15.4.CFP is attached.

<sup>2</sup>Using BSA as a standard

<sup>3</sup>*M. leprae* anti-SodA monoclonal antibody (BEI Resources, NR-19847) (1:20 dilution)

<sup>4</sup>*M. tuberculosis* anti-GroEL2 monoclonal antibody (BEI Resources, NR-13813) (1:100 dilution)

<sup>5</sup>*M. tuberculosis* anti-Ag85 complex monoclonal antibody (BEI Resources, NR-13816) (1:20 dilution)

<sup>6</sup>*M. tuberculosis* anti-GroES monoclonal antibody (BEI Resources, NR-49223) (1:1000 dilution)

<sup>7</sup>*M. tuberculosis* anti-PhoS1 monoclonal antibody (BEI Resources, NR-13790) (1:100 dilution)

<sup>8</sup>*M. tuberculosis* anti-DnaK (clone A) monoclonal antibody (BEI Resources, NR-49679) (1:1000 dilution)

<sup>9</sup>*M. tuberculosis* anti-DnaK (clone B) monoclonal antibody (BEI Resources, NR-50100) (1:1000 dilution)

**Date:** 24 JAN 2017

**Signature:**



BEI Resources Authentication

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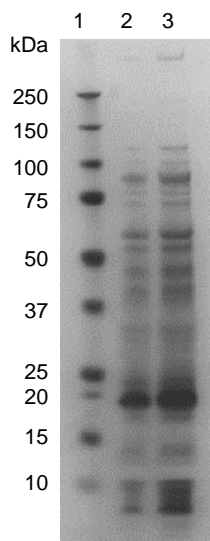
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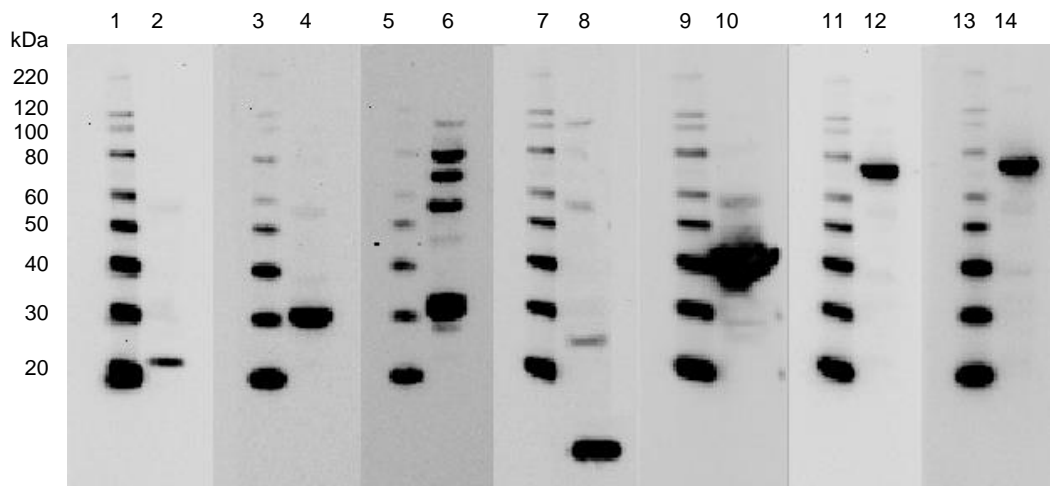


**Figure 1: SDS-PAGE of NR-14825**

Lane 1: Precision Plus Protein™ Standard  
 Lane 2: NR-14825, 11 µg  
 Lane 3: NR-14825, 21 µg



**Figure 2: Western Blots of Prominent Culture Filtrate Proteins**



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: NR-14825 (21 µg) with anti-SodA  
 Lane 3: MagicMark™ XP Protein Standard  
 Lane 4: NR-14825 (21 µg) with anti-GroEL2  
 Lane 5: MagicMark™ XP Protein Standard  
 Lane 6: NR-14825 (21 µg) with anti-Ag85 complex  
 Lane 7: MagicMark™ XP Protein Standard  
 Lane 8: NR-14825 (21 µg) with anti-GroES  
 Lane 9: MagicMark™ XP Protein Standard  
 Lane 10: NR-14825 (21 µg) with anti-PhoS1  
 Lane 11: MagicMark™ XP Protein Standard  
 Lane 12: NR-14825 (21 µg) with anti-DnaK  
 Lane 13: MagicMark™ XP Protein Standard  
 Lane 14: NR-14825 (21 µg) with anti-DnaK

WORK SHEET FOR CULTURE FILTRATE PROTEIN

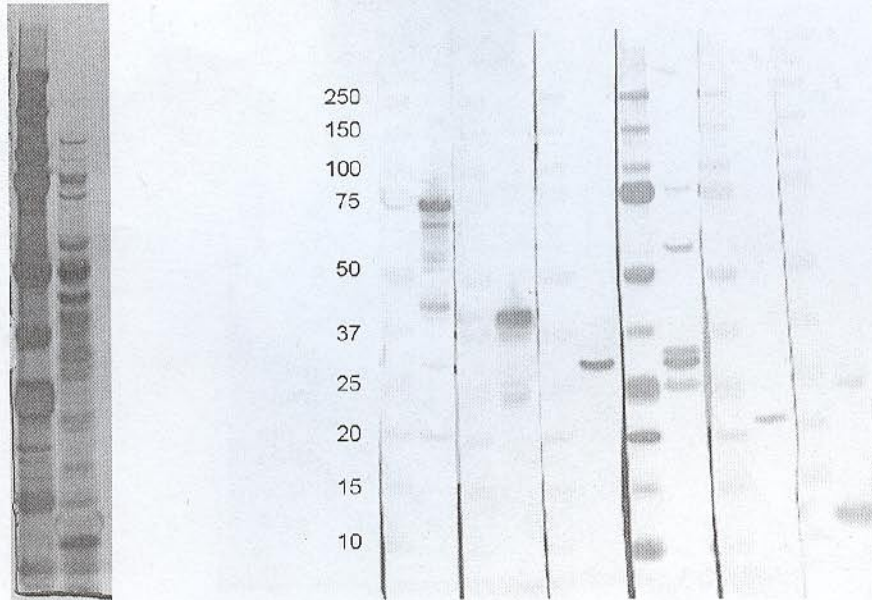
General Information

Lot Number: 11.Rv.2.8.15.4.CFP  
Species: *Mycobacterium tuberculosis*  
Strain: H37Rv  
Date Harvested/Finished: 08/29/11  
By: Phillip Knabenbauer  
NaN<sub>3</sub> Added: Yes or No  
Date ultrafiltration started: 08/30/11  
Date completed: 09/06/11  
Date 10 mM ammonium bicarbonate dialysis started: 09/07/11  
date completed: 09/10/11

Quality Control Information

Clarity of product/suspension after dialysis: Clear  
Passed through 0.2 µm filter: Yes or No  
BCA: 2.23 µg /µl. Notebook and page(s): Prucha#1 pg.111  
Total volume: 125 ml Total amount of Protein: 279 mg  
Silver Stain Date: 09/12/11. Notebook and page(s): Prucha #1 pg.111  
Western Blot of QC Antibodies Date: 09/12/11. Notebook and page(s): Prucha #1 pg.111

QC Gel and Blot:



Aliquot Information:

None

C. McHappy  
(Research Scientist)

09/19/2011  
(date)

[Signature]  
(Laboratory Supervisor) 9/20/11  
(date)