

***Mycobacterium tuberculosis*, Strain CDC1551, Culture Filtrate Proteins**

Catalog No. NR-14826

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

Product Description: NR-14826 is a preparation of culture filtrate proteins (CFP) from *Mycobacterium tuberculosis*, strain CDC1551 and contains most of the excreted and secreted proteins of the organism.

Lot^{1,2}: 61131359

Manufacturing Date: 24OCT2011

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Silver Stain)	Report results	Multiple protein bands visible (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay³	Report results	0.703 mg per mL
Western Blot Analysis Monoclonal anti-SodA ⁴ Monoclonal anti-GroEL2 ⁵ Monoclonal anti-Ag85 Complex ⁶ Monoclonal anti-GroES ⁷ Monoclonal anti-PhoS1 ⁸ Monoclonal anti-DnaK ⁹	Reactive Reactive Reactive Reactive Reactive Reactive	Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2)

¹Production and QC testing were performed by Colorado State University (CSU) under the TB Vaccine Testing and Research Materials Contract (NIH). The CSU documentation for bulk lot 11.CSU93.9.5.7.CFP is attached.

²Retesting of NR-14826 lot 61131359 was performed by BEI Resources in April 2017 to confirm product stability.

³Using BSA as a standard

⁴*M. leprae* anti-SodA monoclonal antibody (BEI Resources, NR-19847) (1:20 dilution)

⁵*M. tuberculosis* anti-GroEL2 monoclonal antibody (BEI Resources, NR-13813) (1:100 dilution)

⁶*M. tuberculosis* anti-Ag85 complex monoclonal antibody (BEI Resources, NR-13816) (1:20 dilution)

⁷*M. tuberculosis* anti-GroES monoclonal antibody (BEI Resources, NR-49223) (1:1000 dilution)

⁸*M. tuberculosis* anti-PhoS1 monoclonal antibody (BEI Resources, NR-13790) (1:100 dilution)

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

Date: 25 MAY 2017

Signature:

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by 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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Figure 1: SDS-PAGE of NR-14826
 Lane 1: Precision Plus Protein™ Standard
 Lane 2: NR-14826, 14 µg

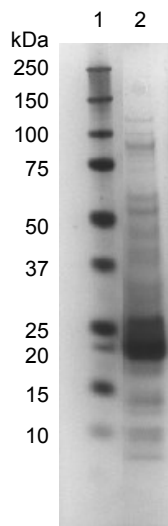
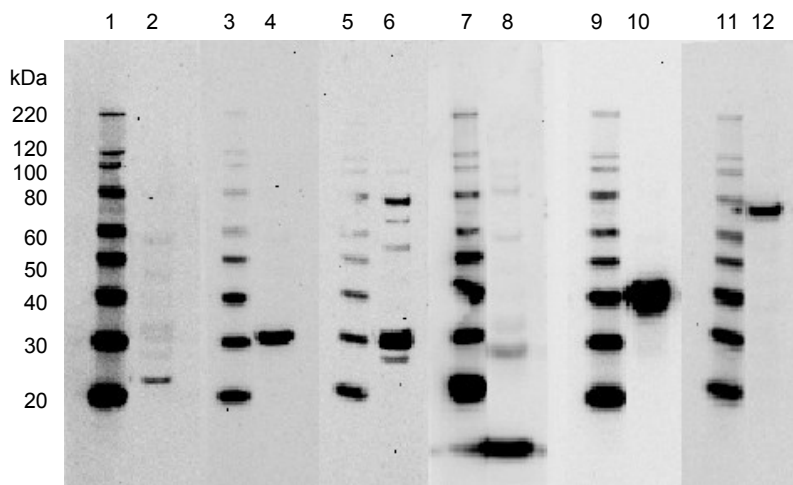


Figure 2: Western Blots of Prominent Culture Filtrate Proteins



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-14826 (14 µg) with anti-SodA
 Lane 3: MagicMark™ XP Protein Standard
 Lane 4: NR-14826 (14 µg) with anti-GroEL2
 Lane 5: MagicMark™ XP Protein Standard
 Lane 6: NR-14826 (14 µg) with anti-Ag85 complex
 Lane 7: MagicMark™ XP Protein Standard
 Lane 8: NR-14826 (14 µg) with anti-GroES
 Lane 9: MagicMark™ XP Protein Standard
 Lane 10: NR-14826 (14 µg) with anti-PhoS1
 Lane 11: MagicMark™ XP Protein Standard
 Lane 12: NR-14826 (14 µg) with anti-DnaK

WORK SHEET FOR CULTURE FILTRATE PROTEIN

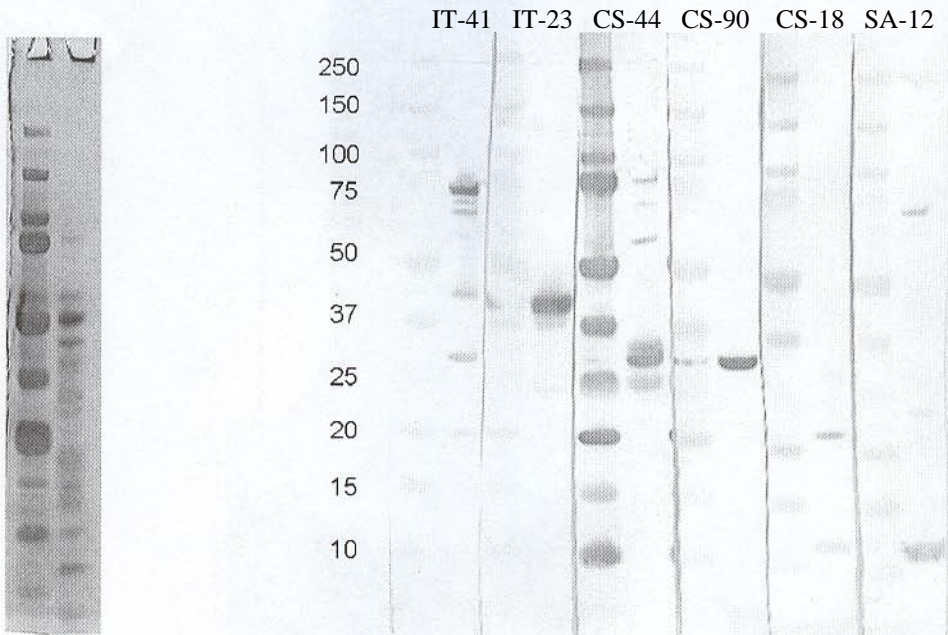
General Information

Lot Number: 11.CSU93.9.5.7.CFP
Species: *Mycobacterium tuberculosis*
Strain: H37Rv
Date Harvested/Finished: 09/19/11
By: Phillip Knabenbauer
NaN₃ Added: Yes or No
Date ultrafiltration started: 10/18/11
Date completed: 10/20/11
Date 10 mM ammonium bicarbonate dialysis started: 10/20/11
date completed: 10/24/11

Quality Control Information

Clarity of product/suspension after dialysis: Clear
Passed through 0.2 µm filter: Yes or No
BCA: 0.75 µg /µl. Notebook and page(s): Prucha#1 pg.115
Total volume: 140 ml Total amount of Protein: 105 mg
Silver Stain Date: 10/24/11. Notebook and page(s): Prucha #1 pg.115
Western Blot of QC Antibodies Date: 10/24/11. Notebook and page(s): Prucha #1 pg.115

QC Gel and Blot:



Aliquot Information:

None

C. Hehaffy
(Research Scientist) 10/31/2011
(date)

[Signature] 11/1/11
(Laboratory Supervisor) (date)