

***Mycobacterium bovis*, Strain AF 2122/97 (ATCC® BAA-935™), Culture Filtrate Proteins**

Catalog No. NR-31212

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

Product Description: NR-31212 is a preparation of culture filtrate proteins (CFP) from *Mycobacterium bovis*, AF 2122/97 (ATCC® BAA-935™) and contains most of the excreted and secreted proteins of the organism.

Lot^{1,2}: 61056062

Manufacturing Date: 29JAN2012

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Silver Stain)	Report results	Multiple protein bands visible (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay³	Report results	1.22 mg per mL
Western Blot Analysis Monoclonal anti-GroES ⁴ Monoclonal anti-Mpt32 ⁵ Monoclonal anti-DnaK ⁶ Monoclonal anti-HspX ⁷	Reactive Reactive Reactive Non-reactive	Reactive (Figure 2) Reactive (Figure 2) Reactive (Figure 2) Non-reactive (Figure 2)

¹Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 12.BAA935.1.3.3.CFP is attached.

²Retesting of NR-31212 lot 64056062 was performed by BEI Resources in May 2017 to confirm product stability.

³Using BSA as a standard

⁴*M. tuberculosis* anti-GroES monoclonal antibody (BEI Resources, NR-49223) (1:100 dilution)

⁵*M. tuberculosis* anti-Mpt32 monoclonal antibody (BEI Resources, NR-13807) (1:50,000 dilution)

⁶*M. tuberculosis* anti-DnaK (clone A) monoclonal antibody (BEI Resources, NR-49679) (1:5000 dilution)

⁷*M. tuberculosis* anti-HspX monoclonal antibody (BEI Resources, NR-13607) (1:00 dilution); Negative control

Date: 10 JUN 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.

ATCC® is a trademark of the American Type Culture Collection.

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



Figure 1: SDS-PAGE of NR-31212
 Lane 1: Precision Plus Protein™ Standard
 Lane 2: NR-31212, 24 µg

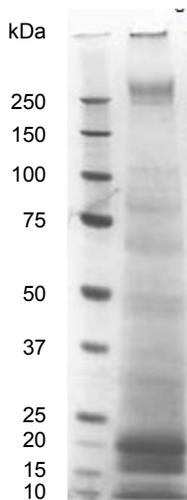
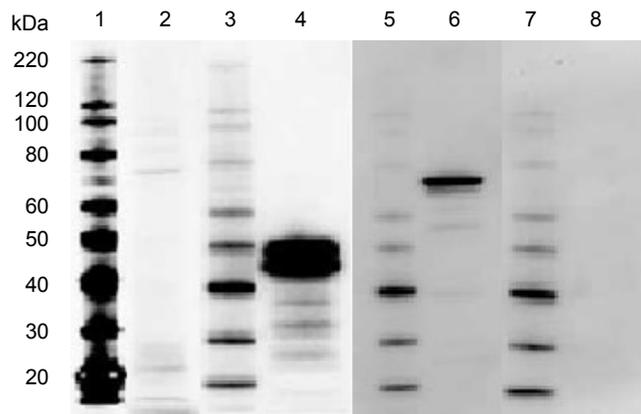


Figure 2: Western Blots of Prominent Culture Filtrate Proteins



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-31212 (24 µg) with anti-GroES
 Lane 3: MagicMark™ XP Protein Standard
 Lane 4: NR-31212 (24 µg) with anti-Mpt32
 Lane 5: MagicMark™ XP Protein Standard
 Lane 6: NR-31212 (24 µg) with anti-DnaK
 Lane 7: MagicMark™ XP Protein Standard
 Lane 8: NR-31212 (24 µg) with anti-HspX; Negative control

WORK SHEET FOR CULTURE FILTRATE PROTEIN

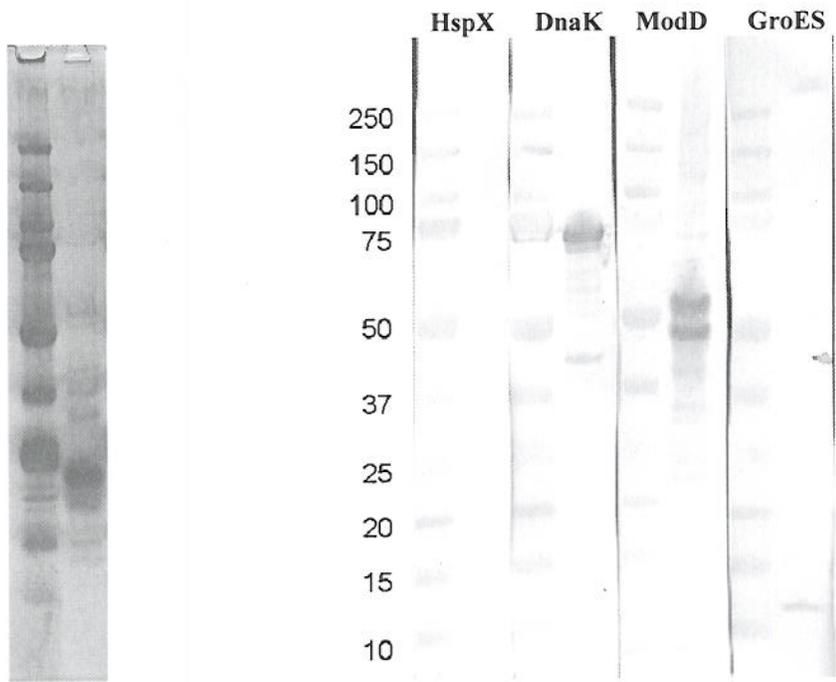
General Information

Lot Number: 12.BAA935.1.3.3.CFP
Species: *Mycobacterium bovis*
Strain: BAA935
Date Harvested/Finished: 01/23/12
By: Phillip Knabenbauer
NaN₃ Added: Yes or No
Date ultrafiltration started: 01/23/12
Date completed: 01/26/12
Date 10 mM ammonium bicarbonate dialysis started: 01/26/12
date completed: 01/29/12

Quality Control Information

Clarity of product/suspension after dialysis: Clear
Passed through 0.2 µm filter: Yes or No
BCA: 1.035 µg /µl. Notebook and page(s): CarolinaQPCR#1 pg.93
Total volume: 200 ml Total amount of Protein: 207 mg
Silver Stain Date: 04/17/12. Notebook and page(s): CarolinaQPCR#1 pg.93
Western Blot of QC Antibodies Date: 04/17/12. Notebook and page(s): CarolinaQPCR#1 pg.93

QC Gel and Blot: HspX is a ⊖ CTR; all others are ⊕ CTR. ⊕



Aliquot Information:

None

C. McHappy
(Research Scientist) 05/01/2012
(date)

[Signature]
(Laboratory Supervisor) 5/2/2012
(date)