

***Mycobacterium bovis*, Strain AF 2122/97 (ATCC® BAA-935™), Cell Wall Fraction**

Catalog No. NR-31213

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

Product Description: NR-31213 is a preparation of the cell wall fraction of *Mycobacterium bovis*, strain AF 2122/97 (ATCC® BAA-935™) and contains proteins and non-protein compounds such as mAGP.

Lot^{1,2}: 61056058

Manufacturing Date: 16MAY2012

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Silver Stain)	Report results	Multiple protein bands visible (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ³	Report results	8.678 mg per mL

¹Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 12.BAA-935.2.13.5.CW is attached.

²Retesting of NR-31213 lot 61056058 was performed by BEI Resources in June 2017 to confirm product stability.

³Using BSA as a standard

Date: 30 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.

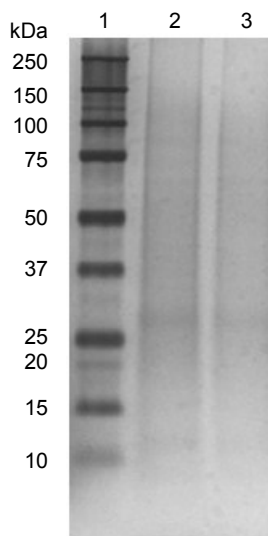
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Figure 1: SDS-PAGE of NR-31213

Lane 1: Precision Plus Protein™ Standard
 Lane 2: NR-31213, ~ 17 µg
 Lane 3: NR-31213, ~ 8 µg



WORK SHEET FOR CELL WALL

General Information

Product Lot Number: 12.BAA935.2.13.5.CW
Species: Mycobacterium bovis
Strain: BAA935

Sonication and Fractionation Information

Starting material (lot #): 12.BAA935.2.13.5.WCg
Cell amount (wet weight): 24.8g
SOP #: PP008.1 Notebook pages: Rachel Hazenfield Protein 1 pp.20-21
Date of French Press Sonication: 05/09/2012 ; Buffer used: PBS-EDTA with protease inhibitor
Centrifugation Notes Centrifuged at 27,000 x g to separate from membrane and cytosol
Date 10 mM ammonium bicarbonate dialysis started: 5/14/2012
date completed: 5/16/2012
Notebook; page(s): Rachel Hazenfield Protein 1 pg.20

Quality Control Information

Clarity of product/suspension after dialysis: Milky, off-white (normal)
BCA: 8.975 $\mu\text{g}/\mu\text{l}$. Notebook and page(s): Rachel Hazenfield Protein 1 pg.21
Total volume: 36.7 ml Total amount of Protein: 329 mg
Silver Stain Date: 05/21/2012 . Notebook and page(s): Rachel Hazenfield Protein 1 pp.20-21

QC Gel:



Aliquot Information:

329 x 1 mg

Rachel Metzfield 6/18/12
(Research Associate) (date)

[Signature] 6/18/2012
(Laboratory Supervisor) (date)