

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

**Catalog No. NR-31215**

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

**Product Description:** NR-31215 is a preparation of the cytosol fraction of *Mycobacterium bovis*, strain AF 2122/97 (ATCC® BAA-935™), and contains cytosolic proteins and soluble material released from the cell wall during disruption of the bacilli.

**Lot<sup>1,2</sup>: 61056060**

**Manufacturing Date: 16MAY2012**

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Silver Stain)	Report results	Multiple protein bands visible (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay <sup>3</sup>	Report results	3.032 mg per mL

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

<sup>2</sup>Retesting of NR-31215 lot 61056060 was performed by BEI Resources in June 2017 to confirm product stability.

<sup>3</sup>Using 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.

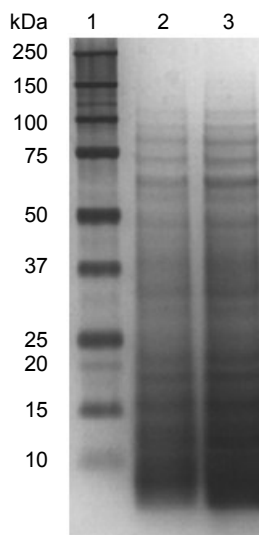
ATCC® is a trademark of the American Type Culture Collection.

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



**Figure 1: SDS-PAGE of NR-31215**

Lane 1: Precision Plus Protein™ Standard  
 Lane 2: NR-31215, 12 µg  
 Lane 3: NR-31215, 24 µg



WORK SHEET FOR CYTOSOL

General Information

Product Lot Number: 12.BAA935.2.13.5.CYT  
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 100,000 x g to recover from membrane  
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: Clear, slightly yellow  
BCA: 2.817 µg /µl Notebook and page(s): Rachel Hazenfield Protein 1 pg.21  
Total volume: 88 ml Total amount of Protein: 247 mg  
Silver Stain Date: 05/17/2012 Notebook and page(s): Rachel Hazenfield Protein 1 pp.20-21

QC Gel:



Aliquot Information:

247 x 1 mg

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

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