

***Mycobacterium tuberculosis*, Strain CDC1551, Cytosol Fraction**

Catalog No. NR-14835

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

Product Description: NR-14835 is a preparation of the cytosol fraction of *Mycobacterium tuberculosis*, strain CDC1551, and contains cytosolic proteins and soluble material released from the cell wall during disruption of the bacilli.

Lot: 61190403¹

Manufacturing Date: 19SEP2012

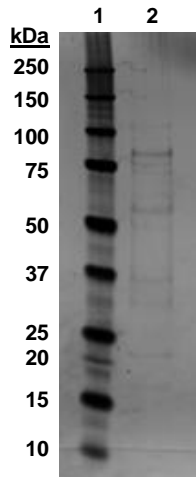
TEST	SPECIFICATIONS	RESULTS
SDS-PAGE and Silver Stain ²	Report results	Visible smear of cell membrane proteins (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ^{2,3}	Report results	2.3 µg per µL

¹Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 12.CSU93.8.7.CYT is attached.

²Retesting of NR-14835 lot 61190403 was performed by BEI Resources in November 2018 to confirm product stability.

³Using BSA as a standard

Figure 1: SDS-PAGE and Silver Stain



Lane 1: Precision Plus Protein™ Standard

Lane 2: NR-14835 lot 61190403, 1 µg

/Heather Couch/

Heather Couch

Program Manager or designee, ATCC Federal Solutions

24 JUL 2019

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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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WORK SHEET FOR CYTOSOL

General Information

Product Lot Number: 12.CSU93.8.7.Cyt
Species: *M. tuberculosis*
Strain: CDC1551

Sonication and Fractionation Information

Starting material (lot #): 10.CSU93.8.23.6.WCg & 06.CSU93.11.17.8.WCg.IHO
Cell amount (wet weight): 75g (Only ~37g used for this product)
SOP #: PP008.1 Notebook pages: Rachel Hazenfield Protein #1 pp. 55-59
Date of French Press Sonication: 08/07/2012 and 09/05/2012; Buffer used: PBS-EDTA with protease inhibitor, DNase, and RNase
Centrifugation Notes centrifuged at 100,000 x g to recover from membrane
Date 10 mM ammonium bicarbonate dialysis started: 09/14/2012
date completed: 09/19/2012
Notebook; page(s): Rachel Hazenfield Protein #1 pp. 56-57

Quality Control Information

Clarity of product/suspension after dialysis: Clear, slightly Yellow
BCA: 3.065 $\mu\text{g}/\mu\text{l}$. Notebook and page(s): Rachel Hazenfield Protein #1 pg. 58
Total volume: 166.31 ml Total amount of Protein: 509.7 mg
Silver Stain Date: 09/25/2012. Notebook and page(s): Rachel Hazenfield Protein #1 pg. 59
QC Gel:



Aliquot Information:

*Aliquot information reflects aliquots made at the time of QC. Bulk aliquots will be broken down as needed.

50 x 1 mg; 1 x 459.7mg

Rachel M Hazenfield 9/26/12
(Research Associate) (date)

[Signature] 9/26/2012
(Laboratory Supervisor) (date)