

***Mycobacterium tuberculosis*, Strain East African Indian 91_0079, Cytosol Fraction**

Catalog No. NR-36506

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

Product Description: NR-36506 is a preparation of the cytosol fraction of *Mycobacterium tuberculosis*, strain East African Indian 91_0079, and contains cytosolic proteins and soluble material released from the cell wall during disruption of the bacilli.

Lot¹: 61449193

Manufacturing Date: 01DEC2012

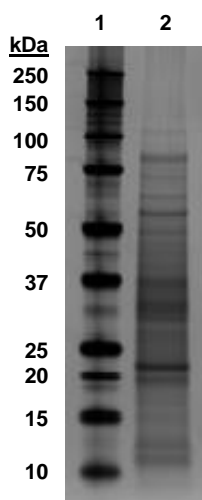
TEST	SPECIFICATIONS	RESULTS
SDS-PAGE and Silver Stain ²	Report results	Visible smear of cytosol proteins (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ^{2,3}	Report results	3.05 µg/µL

¹Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 12.EAI.11.20.Cyt is attached.

²Retesting of NR-36506 lot 61449193 was performed by BEI Resources in July 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-36506 lot 61449193, 1.5 µg

/Heather Couch/
Heather Couch

Program Manager or designee, ATCC Federal Solutions

30 NOV 2018

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.EAI.11.20.Cyt

Species: *M. tuberculosis*

Strain: EAI

Sonication and Fractionation Information

Starting material (lot #): 12.EAI.9.17.10.WCg, 12.EAI.8.6.7.WCg, & 12.EAI.9.4.9.WCg

Cell amount (wet weight): 84.25g (Only ~42g used for this product)

SOP #: PP008.1 Notebook pages: Rachel Hazenfield Protein #1 pp. 98-100

Date of French Press Sonication: 11/20/2012; 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: 11/29/2012

date completed: 12/01/2012

Notebook; page(s): Rachel Hazenfield Protein #1, pp. 99-100

Quality Control Information

Clarity of product/suspension after dialysis: clear, slightly yellow (normal)

BCA: 5.536 $\mu\text{g}/\mu\text{l}$

Notebook and page(s): Rachel Hazenfield Protein #1 pg. 99

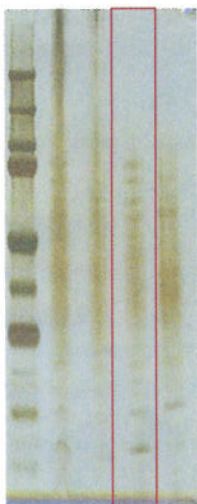
Total volume: 130 ml

Total amount of Protein: 719.68 mg

Silver Stain Date: 12/04/2012

Notebook and page(s): Rachel Hazenfield Protein #1 pg. 100

QC Gel:



Aliquot Information:

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

100 x 1 mg; 1 x 619.68 mg

Rachel Hazenfield
(Research Associate) (date) 12/15/12

[Signature]
(Laboratory Supervisor) (date) 12/5/2012