

***Mycobacterium tuberculosis*, Strain H37Rv, Cytosol Fraction**

**Catalog No. NR-14834**

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

**Product Description:** NR-14834 is a preparation of the cytosol fraction of *Mycobacterium tuberculosis*, strain H37Rv and contains cytosolic proteins and soluble material released from the cell wall during disruption of the bacilli.

**Lot<sup>1,2</sup>: 61072742**

**Manufacturing Date: 11MAR2011**

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE and Silver Stain <sup>2</sup>	Report results	Visible smear of cytosol proteins (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay <sup>2,3</sup>	Report results	3.29 µg/µL
Quantity per vial	~ 1 mg	~ 1 mg
Volume per vial	Report results	~ 270 µL

<sup>1</sup>Production and QC testing were performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH) and provided as a bulk lot. NRC-14834 bulk lot 10.Rv.2.6.17.7.CYT was aliquoted at ATCC® on 23JUN2012 as NR-14834 lot 61072742. The CSU documentation for bulk lot 10.Rv.2.6.17.7.CYT is attached.

<sup>2</sup>Retesting NR-14834 lot 61072742 was performed BEI Resources in October 2016 to confirm product stability.

<sup>3</sup>Using BSA as a standard

**Date:** 06 DEC 2016

**Signature:**



BEI Resources Authentication

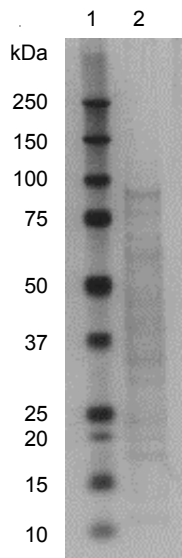
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Figure 1: SDS-PAGE of Cytosol Fraction



Lane 1: Precision Plus Protein™ Standard  
Lane 2: NR-14834 lot 61072742, 1.0 µg

WORK SHEET FOR CYTOSOL

General Information

Product Lot Number: 10.Rv.2.6.17.7.CYT
Species: Mycobacterium tuberculosis
Strain: H37Rv

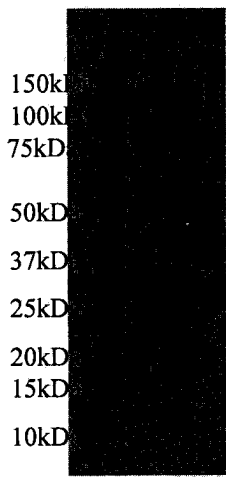
Sonication and Fractionation Information

Starting material (lot #): whole cells; lot # 10.Rv.2.6.17.7.WCg
Cell amount (wet weight): 100g
SOP #: PP008.1 Notebook pages: AEW contract #3 pp 108-111
Date of French Press Sonication: 3 / 8 / 11 ; Buffer used: PBS-EDTA with protease inhibitors
Centrifugation Notes Centrifuged at 100,000 x g to recover from membrane
Date 10 mM ammonium bicarbonate dialysis started: 3 / 10 / 11
date completed: 3 / 11 / 11
Notebook; page(s): AEW #3 p 110

Quality Control Information

Clarity of product/suspension after dialysis: clear
BCA: 3.7 ug /ul. Notebook and page(s): AEW # 3 p 110
Total volume: 175mL Total amount of Protein: 647.5mg
Silver Stain Date: 3 / 14 / 11. Notebook and page(s): AEW #3 p 11

QC Gel:



4-12% Bis-Tris; Silver stain
Lane 1: marker
Lane 2: 1 ug cytosol
Lane 3: 2 ug cytosol

Aliquot Information:
5 x 100 mg for special order
145 mg for BEI

Handwritten signature and date 3/14/11
(Research Associate) (date)

Handwritten signature and date 3/15/11
(Laboratory Supervisor) (date)