

***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^{1,2}: 61072743

Manufacturing Date: 10SEP2009

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	2.46 µg/µL
Quantity per vial	~ 1 mg	~ 1 mg
Volume per vial	Report results	~ 300 µL

¹Production 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 09.Rv.2.5.22.5.CYT was aliquoted at ATCC[®] on 28JUN2012 as NR-14834 lot 61072743. The CSU documentation for bulk lot 09.Rv.2.5.22.5.CYT is attached.

²Retesting of NR-14834 lot 61072743 was performed by BEI Resources in October 2016 to confirm product stability.

³Using BSA as a standard

Date: 06 DEC 2016

Signature:



BEI Resources Authentication

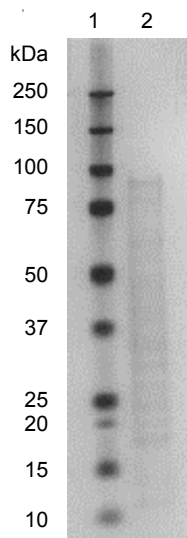
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Figure 1: SDS-PAGE of Cytosol Fraction



Lane 1: Precision Plus Protein™ Standard
Lane 2: NR-14834 lot 61072743, 1.0 µg

HHSN266200400091C

WORK SHEET FOR CYTOSOL

General Information

Product Lot Number: 09.Rv.2.5.22.5.CYT
Species: *M. tuberculosis*
Strain: H37Rv

Sonication and Fractionation Information

Starting material (lot #): 09.Rv.2.5.22.5.WCg
Cell amount (wet weight): 97g
SOP #: PP008.1 Notebook pages: Megan Lucas, Contract Subcellular Fractions; pg 31-34
Date of French Press Sonication: 08/14/2009; Buffer used: 1mM EDTA with DNase, RNase, and Complete protease inhibitor (later dialyzed into PBS)
Centrifugation Notes 3500 rpm, 5 minutes (08/25/09); 27000xg, 2 x 1 hour (08/25/09 and 08/26/09); 100000xg, 2 x 4 hr (due to volume constraints, material split into several centrifuge spins on 8/26, 8/27, 9/1, 9/3, 9/4, and 9/8)
Date 10 mM ammonium bicarbonate dialysis started: 09/08/2009
date completed: 09/10/2009
Notebook; page(s): MCL, Contract Subcellular Fractions; pg 32

Quality Control Information

Clarity of product/suspension after dialysis: clear
BCA: 3.36 $\mu\text{g}/\mu\text{l}$. Notebook and page(s): MCL, Contract Subcellular Fractions; pg 33
Total volume: 195.5 ml Total amount of Protein: 657 mg
Silver Stain Date: 09/17/2009 Notebook and page(s): MCL, Contract Subcellular Fractions; pg 34

QC Gel:



Aliquot Information:

20 x 1 mg
6 x 100 mg
1 x 37 mg

Megan Lucas 9-18-09
(Research Associate) (date)

[Signature] 9/18/2009
(Laboratory Supervisor) (date)