

***Mycobacterium tuberculosis*, Strain H37Rv TX-114 Soluble Proteins****Catalog No. NR-14841**

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

**Product Description:** NR-14841 is a preparation of the TX-114 soluble proteins of *Mycobacterium tuberculosis*, strain H37Rv. The culture was grown to late-log phase in glycerol-alanine-salts medium, washed with PBS and inactivated by gamma-irradiation. Cells were broken by French press in 4% triton X-114, partitioned at 37°C and centrifuged. The upper aqueous layer was removed and the process was repeated twice to extract the triton layer. The final triton layer was precipitated in acetone to remove the triton, and the resulting pellet was phenol-extracted, and then dialyzed in water. The protein content of the final product was then quantified using the BCA protein assay.

**Lot: 60732246****Manufacturing Date: 23JUN2012**

QC testing was performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH). The Colorado State University documentation for lot 12.Rv.2.6.26.TX114 is attached.

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# WORK SHEET FOR TX-114 EXTRACTED PROTEINS

## General Information

Product Lot Number: 12.Rv.2.6.26.TX114  
Species: Mycobacterium tuberculosis  
Strain: H37Rv

## Product Information

Starting material (lot #): 10.Rv.2.11.22.7.WCL  
Amount (mg protein): 1311.25 mg  
SOP #: PP010.1 Notebook pages: Rachel Hazenfield Protein Notebook #1 pp. 35-39  
Date TX-114 Extract: 06/13/2012;  
Number of TX-114 Extracts: 3 Number of Back Extractions: 3  
Notes on Extractions: n/a

Date Acetone Precipitation Started: 06/18/2012 ; Temperature of Acetone Precipitation: -20°C

Date Phenol Partition Started: 06/19/2012 ; Volume of Phenol Partition: 4 x 15 ml PBS:15 ml Phenol

Date deionized water dialysis started: 06/20/2012;  
Date completed: 06/22/2012;

Date MilliQ water dialysis started: 06/22/2012;  
Date completed: 06/23/2012;

Notebook page(s): Rachel Hazenfield Protein Notebook #1 pg. 36

## Quality Control Information

Description of Solubility and Suspension: Still some insoluble particulates

BCA: 0.70 µg /µl.

Notebook and page(s): Rachel Hazenfield Protein Notebook #1 pg.38

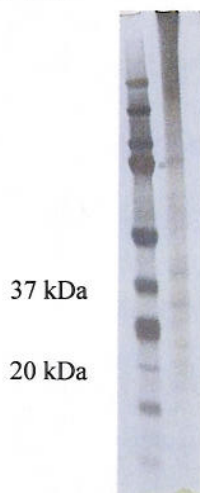
Total volume: 50 ml

Total amount of Protein: 35 mg

Silver Stain Date: 06/26/2012.

Notebook and page(s): Rachel Hazenfield Protein Notebook #1 pp.38-39

## QC Gel:



## Aliquot Information:

30 x 1mg and 1 x 5mg

Rachel Hazenfield 6/27/12  
(Research Associate) (date)

[Signature] 6/27/2012  
(Laboratory Supervisor) (date)