

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

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**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: 70037227****Manufacturing Date: 26AUG2020**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 20.Rv.9.3.TX114 is attached.

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## WORK SHEET FOR TX-114 EXTRACTED PROTEINS

### General Information

BEI Catalog Number: NR-14841  
CSU Lot Number: 20.Rv.9.3.Tx114  
Species: *Mycobacterium tuberculosis*  
Strain: H37Rv

### Product Information

Starting material (lot #): 18.Rv.2.5.8.WCg.b  
Cells Irradiated: Yes  
Viability Test Performed: No Viable Organism Detected  
Amount starting material: 40g  
SOP #: PP010.3 Notebook pages: Joanie Ryan BEI #1 p32-35  
Date TX-114 Extract: 8/11/20;  
Number of TX-114 Extracts: 2  
Notes on Extractions: The centrifuge bottle cracked during the centrifugation to remove insoluble material. Approximately 65% of the material was recovered.

Date Acetone Precipitation Started: 8/13/20; Temperature of Acetone Precipitation: -20 °C

Date Phenol Partition Started: 8/18/20; Volume of Phenol Partition: 18 mL

Date deionized water dialysis started: 8/21/20;  
Date completed: 8/24/20;

Date MilliQ water dialysis started: 8/24/20;  
Date completed: 8/26/20;

### Quality Control Information

BCA: 0.767 µg /µl. Notebook and page(s): Joanie Ryan BEI #1 p35  
Total amount of Protein: 33.42 mg  
Silver Stain Date: 8/27/20. Notebook and page(s): Joanie Ryan BEI #1 p35

### QC Gel:



Aliquot Information: 33 x 1 mg and In House 1 x 0.42 mg

Joan Ryan 9/3/20  
(Research Associate) (date)

C. McHaffey 9/3/20  
(Laboratory Supervisor) (date)