

***Mycobacterium tuberculosis*, Strain H37Rv, Purified Lipoarabinomannan (LAM)****Catalog No. NR-14848**

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**Product Description:**

NR-14848 is a preparation of the lipoarabinomannan (LAM) derived from the cell wall of irradiated *Mycobacterium tuberculosis*, strain H37Rv. LAM possesses many biological activities including immunogenicity, induction of TNF and the release of other cytokines, and inhibition of antigen processing. The nonreducing termini of H37Rv LAM are extensively capped with mannose.

**Lot: 70059205****Manufacturing Date: 21SEP2023**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 23.Rv.9.21.LAM is attached.

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## WORK SHEET FOR LIPOARABINOMANNAN

### General Information

BEI Catalog Number: NR-14848  
CSU Lot Number: 23.Rv.9.21.LAM  
Species: *Mycobacterium tuberculosis*  
Strain: H37Rv

### Purification Information

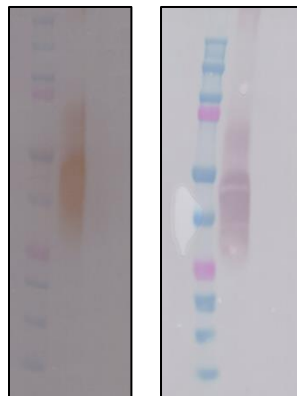
Starting material (lot #): Pooled Cells (Danny Hesser, Notebook #10, pgs 1-3). See additional notes below  
Cells Irradiated: Yes  
Viability Test Performed: No Viable Organism Detected  
Cell amount (wet weight): ~89.3 g  
Protocol used (SOP #): PP015.6, PP016.7, and PP017.3  
Date started: 2/21/23  
Date completed: 9/21/23  
Notebook; pages Megan Stookey NB 2 pgs: 68, 69, 81, 90-96. Megan Stookey NB 3 pgs: 82-85, 91-98  
Additional notes (if applicable): A large pool of irradiated cells was delipidated and used for starting material. Approximately 89.3 g of this was separated for this batch of product.

### Quality Control Information

NMR results: Pass Notebook and page(s): Megan Stookey Notebook 3 pg: 98  
Endotoxin assay used: EndoZyme II  
Endotoxin amount: 8.05 ng/mg Notebook and page(s): Megan Stookey Notebook 3 pg: 93,94  
GC results: 1.402 mg/ml Notebook and page(s): Megan Stookey Notebook 3 pg: 95,96  
Total amount of LAM: 2.280 mg  
Silver stain date: 9/18/23 Notebook and page(s): Megan Stookey Notebook 3 pg: 97  
Western blot date: 9/18/23 Notebook and page(s): Megan Stookey Notebook 3 pg: 97  
Antibody used: CS-35  
Amount Loaded on gels: 3 µg

### QC Gel and Blot:

Silver Stain CS-35



### Aliquot Information:

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

4 vials x 0.5 mg aliquots  
1 vial x 0.280 mg aliquot

Megan Stookey 9/21/23

Research Associate

Date

Rebecca Staudenmaier 9/21/2023

Laboratory Supervisor

Date