

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

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

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: 70021813**Manufacturing Date: 18JAN2019**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 19.Rv.2.1.18.LAM is attached.

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WORK SHEET FOR LIPOARABINOMANNAN

General Information

BEI Catalog Number: NR-14848
CSU Lot Number: 19.Rv.2.1.18.LAM
Species: *Mycobacterium tuberculosis*
Strain: H37Rv

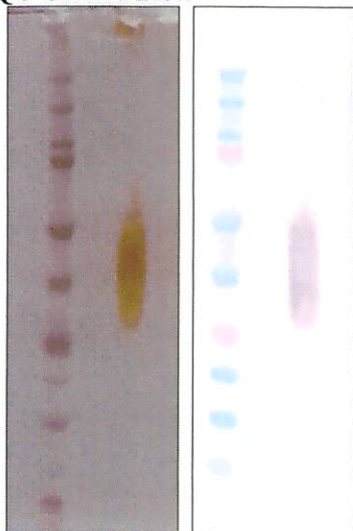
Purification Information

Starting material (lot #): Pooled cells (Danny Hesser, Notebook #10, pg 1-3). See additional notes below
Cells Irradiated: Yes
Viability Test Performed: No Viable Organism Detected
Cell amount (wet weight): 52 g delipidated cells (from approximately 370 g wet weight of cells)
Protocol used (SOP #): PP015.6, PP016.6, and PP017.3
Date started: 12 / 3 / 2018
Date completed: 1 / 18 / 2019
Notebook; pages: Danara Flores, Notebook #1, pg 18-27, Megan Lucas, BEI Production Notebook #4, pg 26-40
Additional notes (if applicable): A large pool of irradiated cells was delipidated and used for starting material.
Approximately 1/8 of the total amount of cells (420 g delipidated cells total) was separated for this batch of product

Quality Control Information

NMR results: Pass Notebook and page(s): MCL, BEI Production #4, pg 33
Endotoxin assay used: EndoZyme II
Endotoxin amount: 0.25 ng/mg Notebook and page(s): MCL, BEI Production #4, pg 39
GC Results: 9.43 mg/ml Notebook and page(s): MCL, BEI Production #4, pg 35
Total amount of LAM: 75.641 mg
Silver stain date: 1 / 17 / 2019 Notebook and page(s): MCL, BEI Production #4, pg 40
Western blot date: 1 / 17 / 2019 Antibody used: CS-35 Notebook and page(s): MCL, BEI Production #4, pg 40

QC Gel and Blot:



Aliquot Information:

151 x 500 µg
1 x 141 µg

M. Li
(Research Associate)

1-18-19
(date)

C. McHaffey
(Laboratory Supervisor)

1-22-19
(date)