

Mycobacterium tuberculosis*, Strain H37Rv, Purified Trehalose Monomycolate (TMM)*Catalog No. NR-48784**

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Product Description: NR-48784 is a preparation of purified trehalose monomycolate (TMM) that was extracted from the lipid fraction obtained from irradiated *Mycobacterium tuberculosis*, strain H37Rv cells. Following purification steps, the TMM was dried under nitrogen gas.

Lot: 70000217**Manufacturing Date: 29NOV2016**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 16.Rv.11.18.02.TMM is attached.

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

BEI Catalog Number: NR-48784
CSU Lot Number: 16.Rv.11.18.02.TMM
Fraction Type: trehalose monomycolate
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

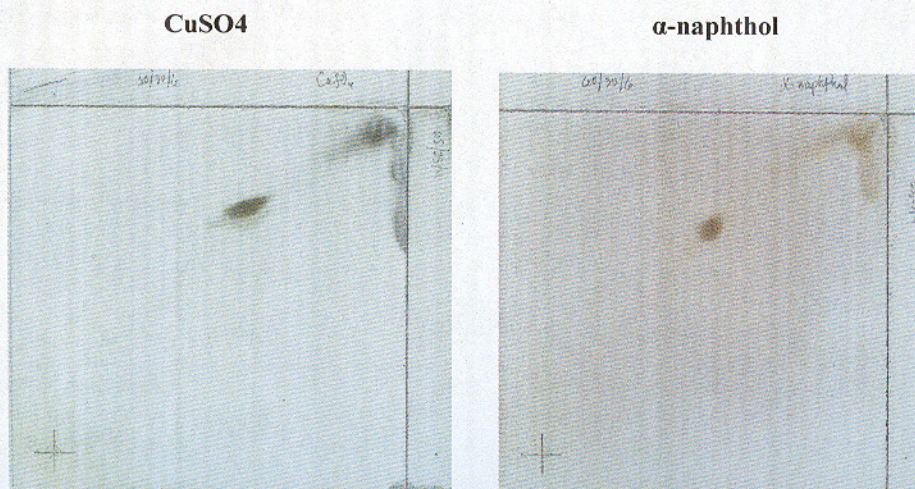
Starting material: 10:10:3 from H37Rv Starting Material Lot #: 14.Rv.2.6.10.4.WCg.b
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP030.1, SP031, SP032, SP033, SP037, SP046
Date started: 9/28/16
Date completed: 11/29/16
Notebook; and page(s): TMM Notebook I pp 91-99

Additional notes: 2:1-soluble acetone-insoluble 10:10:3 Rv TL was applied to preparatory TLC plates and resolved with 60/30/6 chloroform/methanol/water. Extracted bands were polished on prep plates with 65/25/4, same solvents.

Quality Control Information:

Total amount of TMM : 2.05 mg MALDI-TOF completed: 11/29/16
TLC date: 11/18/16 Date dried on N₂ bath: 11/18/16
Notebook and page(s): TMM I pp 99-100 and PIM I p 45

TLC Analysis:



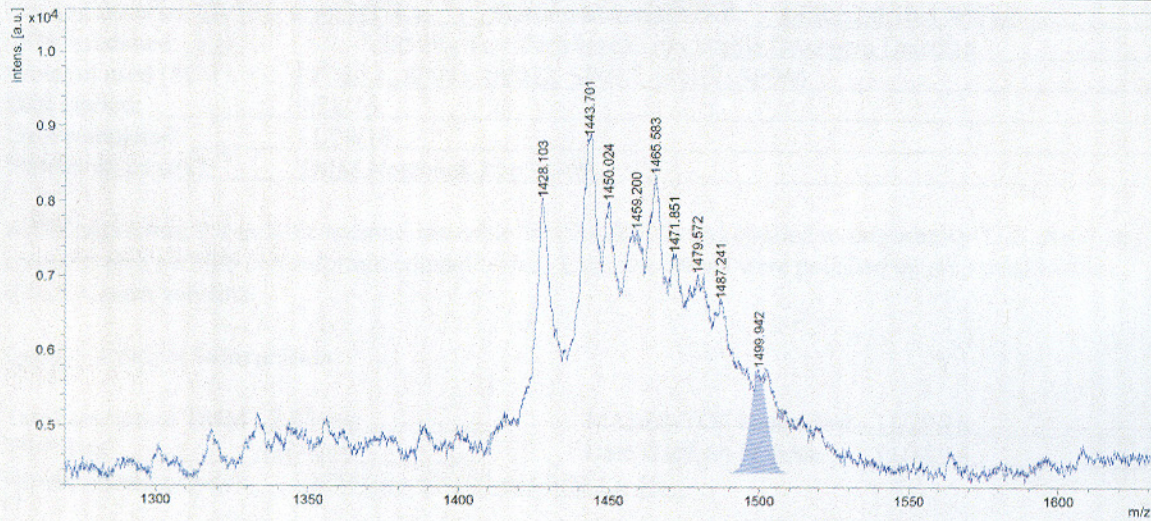
TLC solvent system

1st dimension 65/25/4 chloroform/ methanol/ water, left to right; 2nd dimension 60/30/6, same solvents, bottom to top. Loaded 25 μg TMM.

Aliquot information

8 x 0.25 mg = 2.00 mg
1 x 0.05 mg = 0.05 mg
2.05 mg

MALDI Analysis



Purified sample (1 μ l at 2.0 μ g/ μ l) was mixed 1:1 with DHB matrix and analyzed in positive mode.

Dan C. Jensen

(Research Associate)

2/7/17

date

C. McHaffey

(Laboratory Supervisor)

2/7/17

date

updated QC sheet