

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: 2046**Manufacturing Date: 27SEP2016**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 16.Rv.9.26.01.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.9.26.01.TMM
Fraction Type: trehalose monomycolate
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: 10:10:3 total lipid 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: 7/6/16
Date completed: 9/27/16
Notebook; page(s): PIM Notebook I pp 1-22

Additional notes: 2:1-soluble 10:10:3 Rv TL was applied to preparatory TLC plates and resolved with 80/20/2 chloroform/methanol/water. Extracted bands were polished on prep plates with 65/25/4, same solvents.

Quality Control Information:

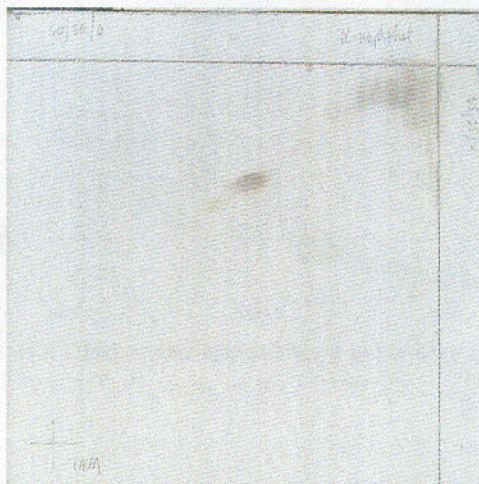
Total amount of TMM: 2.40 mg
TLC date: 9/16/16
Notebook and page(s): PIM I pp 23-32

MALDI-TOF completed: 9/26/16
Date dried on N₂ bath: 9/27/16

TLC Analysis:

CuSO₄

α -naphthol



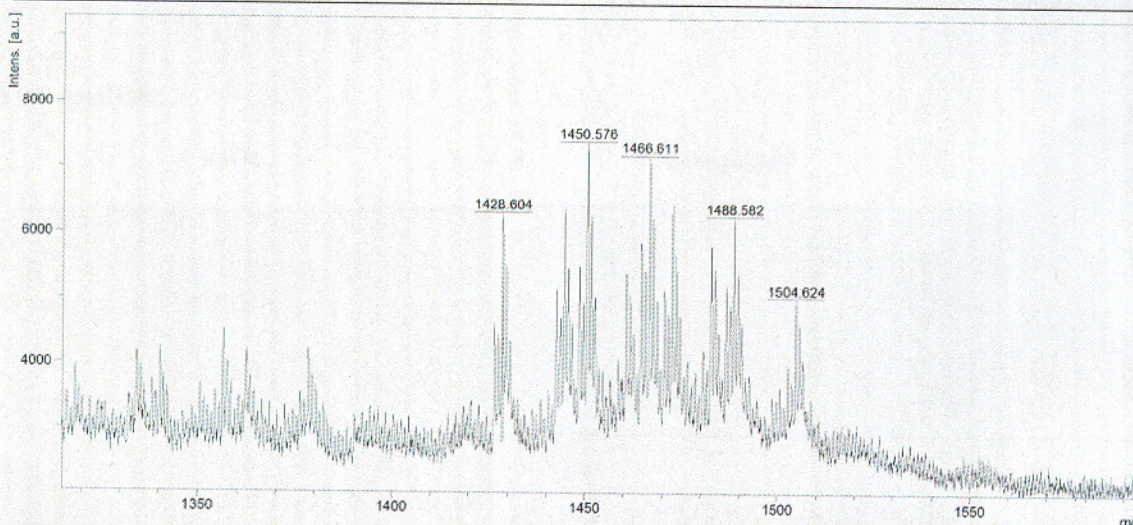
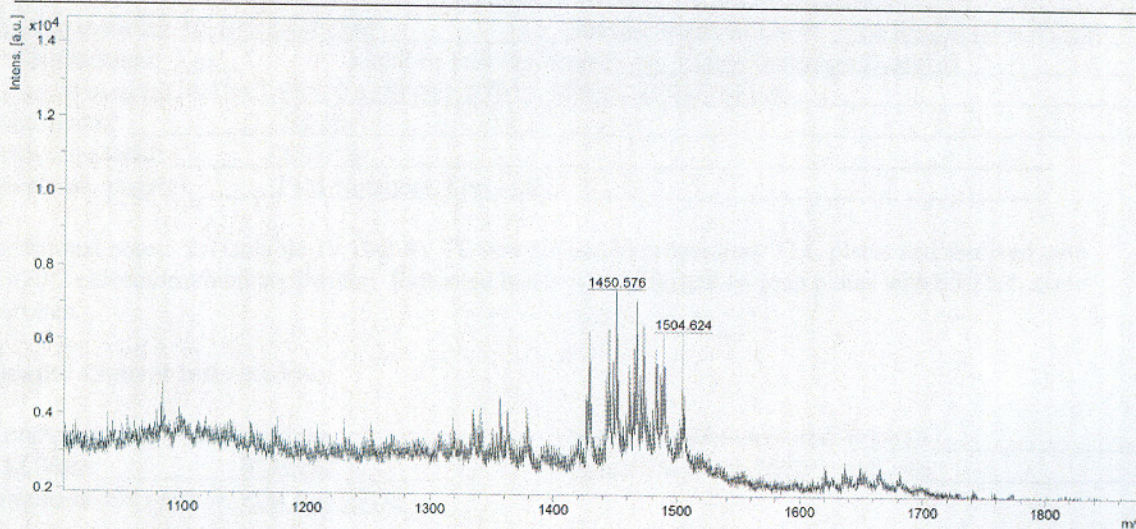
TLC solvent system

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

Aliquot information

9 x 0.25 mg = 2.25 mg
1 x 0.15 mg = 0.15 mg
2.40 mg

MALDI Analysis



Purified sample (1 μ l at 2.5 μ g/ μ l) was mixed 1:1 with DHB matrix and analyzed in positive electrospray mode.

Dan Carlson 2/7/17
(Research Associate) date
updated QC sheet

C. Chaffey 2/7/17
(Laboratory Supervisor) date