

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: 62689248**Manufacturing Date: 07MAR2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 14.Rv.3.6.01.TMM is attached.

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WORK SHEET FOR PURIFIED TMM

General Information

Lot Number: 14.Rv.3.6.01.TMM
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: 10:10:3 Rv
Lot number: 13.Rv.2.3.12.8.WCg.a
Protocol used (SOP #'s): SP031, SP032, SP033, SP037, SP046
Date started: 8/14/13
Date completed: 3/7/14
Notebook; page(s): Lipids 7 pp 21-23 and TMM 1 pp 36-48

Additional notes: Acetone-insoluble 10:10:3 was loaded onto a column, and the load flowthrough and 10% MeOH in CHCl₃ wash was noted to be rich in TMM. These crude fractions were cleaned up on subsequent preparatory TLCs developed with 65/25/4 chloroform/methanol/water.

Quality Control Information:

Total volume: 0.45 ml Total amount of TDM: 2.25 mg
TLC date: 3/6/14 Date dried on N₂ bath: 3/7/14
Notebook and page(s): TMM 1 pp 48-50

TLC Analysis:



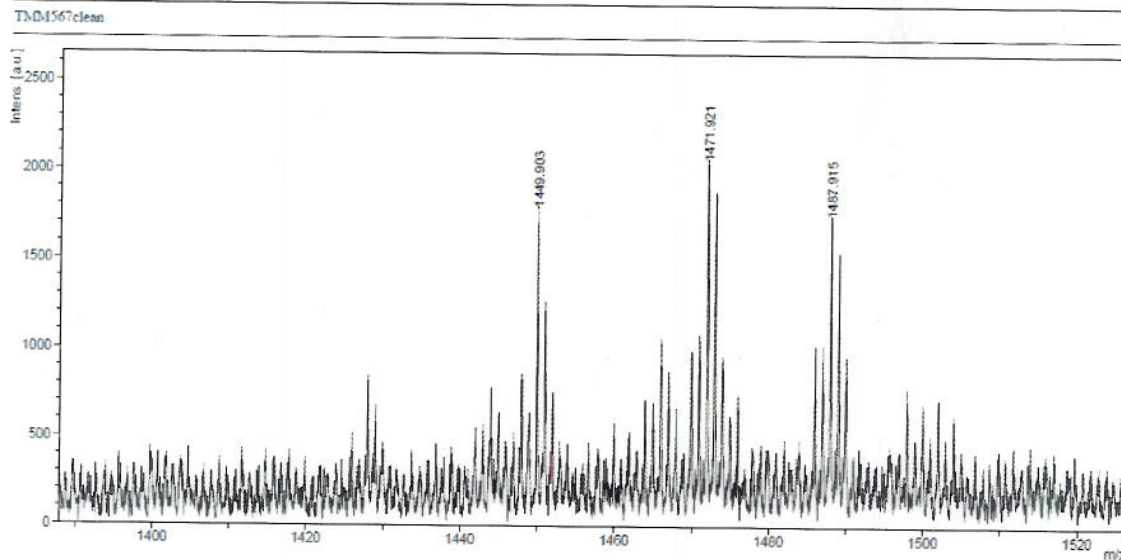
TLC solvent system

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

Aliquot information

9 x 0.25 mg = 2.25 mg

MALDI Analysis



Purified sample (1 ul) was mixed 1:1 with DHB matrix and analyzed in positive electrospray mode.

Dan Carlson
(Research Associate) _____ date

[Signature] 3/10/2014
(Laboratory Supervisor) _____ date