

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: 70065756**Manufacturing Date: 26JUN2024**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 24.Rv.06.26.TMM is attached.

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WORK SHEET FOR PURIFIED TREHALOSE MONOMYCOLATE (TMM)

General Information

BEI Catalog Number: NR-48784 BEI Lot Number: 70065756
CSU Lot Number: 24.Rv.06.26.TMM
Species: *M. tuberculosis*
Strain: H37Rv

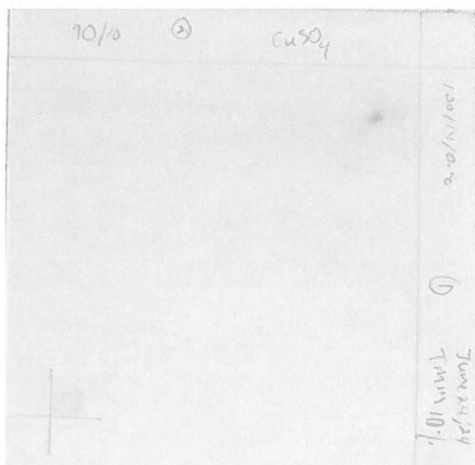
Purification Information

Starting material: 2:1 chloroform/methanol-extracted total lipid (24.H37Rv.02.28.TL nb#2 p.52-55)
Lot number: Whole Cells 20.Rv.2.11.5.9.Wcg.a
Cells Irradiated: Yes
Viability Test Performed: No Viable Organism Detected
Protocol(s) used: PP018.2, PP058, PP030.2, SP033, SP037.1, SP031
Date started: 4/2/2024
Date completed: 6/26/24
Notebook; page(s): Rebecca Staudenmaier NB#2 pps57-85
Additional notes: none

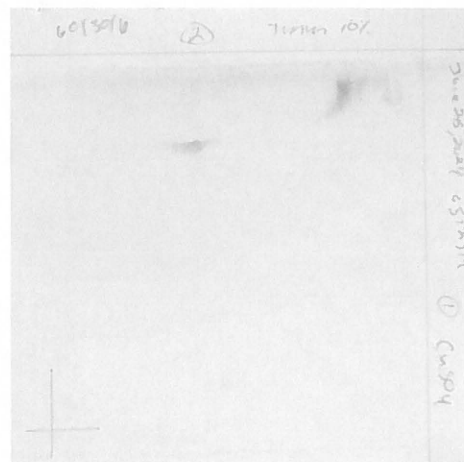
Quality Control Information

Total amount of TMM: 9.8 mg
Notebook and page(s): Rebecca Staudenmaier NB#2 pp 69-85, Kieran Brodner NB#3 pp 86-91
Date dried on N2 bath: 6/26/24
TLC dates: 6/24/24, 6/25/24
TLC solvent system TLC#1: 1st dimension 100/14/0.8 CHCl₃/CH₃/H₂O (left →right),
2nd dimension 90/10 CHCl₃/CH₃OH (bottom→top).
TLC solvent system TLC#2: 1st dimension 65/25/4 CHCl₃/CH₃/H₂O (left →right),
2nd dimension 60/30/6 CHCl₃/CH₃OH (bottom→top).
Additional notes: Two TLC's were performed with different solvent systems. The first used higher amounts of chloroform in the solvent system to rule out a less polar contaminant. The second used the standard solvent system for this product. 50 µg of TMM was spotted on each TLC, then sprayed with CuSO₄ and charred.

QC TLC#1

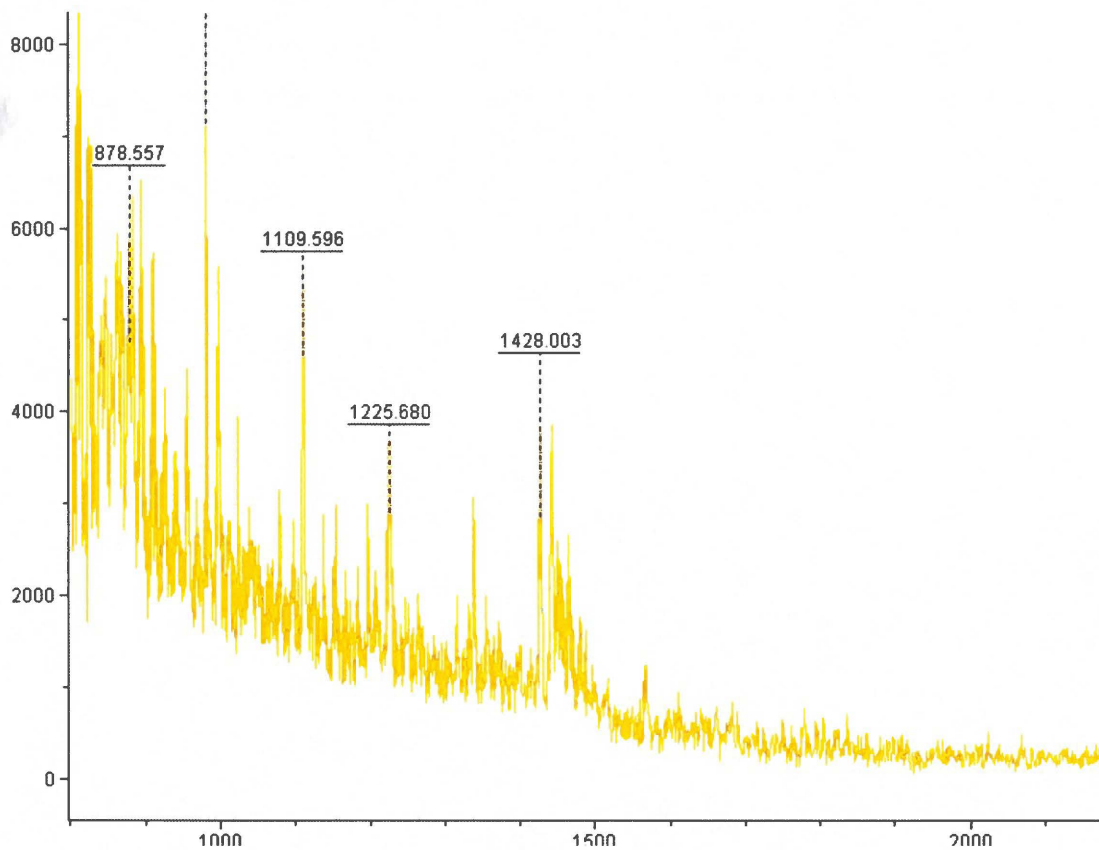


QC TLC#2



MALDI-TOF date: 5/31/24

Loaded 2 µg TMM and overlaid with 1.0 ul DHB matrix, analyzed in negative reflector mode.



***Aliquot Information:**

25 x 0.25 mg

1 x 3.35 mg in bulk

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

PA Staudenmaier

Research Associate

9/9/2024

Date

[Signature]

Laboratory Supervisor

9/11/24

Date