

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: 70045518**Manufacturing Date: 16SEP2021**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 21.Rv.9.13.02.TMM is attached.

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

BEI Catalog Number: NR-48784
CSU Lot Number: 21.Rv.9.13.02.TMM
Fraction Type: trehalose monomycolate
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

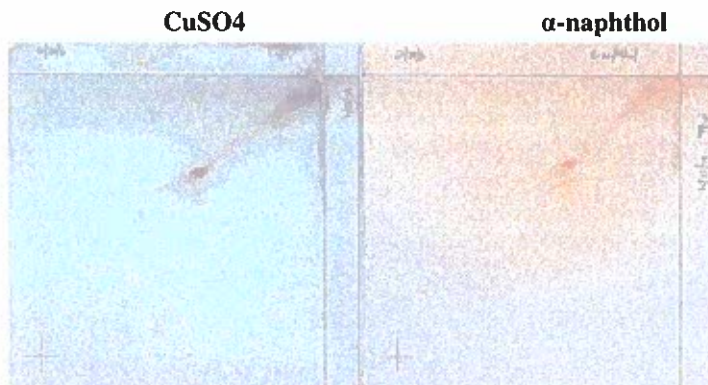
Starting material: 2:1 TL from H37Rv Starting Material Lot #: 17.Rv.2.11.1.11.WCg.a
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP030.1, SP031, SP032, SP033, SP037, SP046
Date started: 5/25/21
Date completed: 9/16/21
Notebook; page(s): Lipids 10 pp 19-44

Additional notes: 2:1 Rv TL was applied to silica gel flash columns, which were washed with chloroform, then an increasing methanol gradient. The 10% MeOH in CHCl₃ fractions were applied to preparatory TLC plates and resolved with 65/25/4 chloroform/methanol/water. Extracted bands were polished on prep plates with 65/25/4.

Quality Control Information:

Total amount of TMM : 4.5 mg TLC date: 8/27/21
Date dried on N₂ bath: 9/14/21 Notebook: Lipids 10 pp 45-48

TLC Analysis:



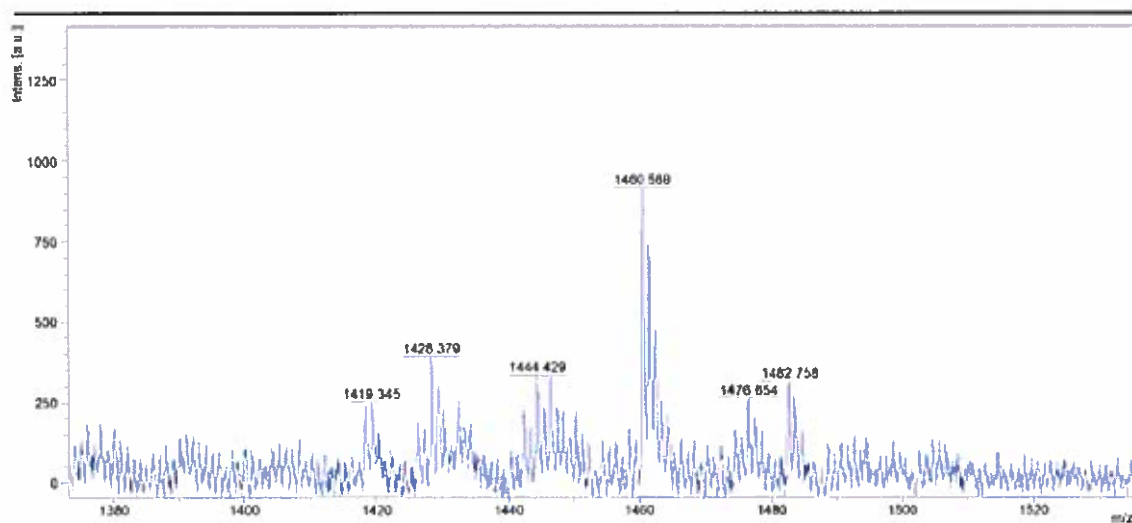
TLC solvent system

1st dimension 65/25/4 chloroform/
methanol/ water, left to right; 2nd
dimension 60/30/6, same solvents,
bottom to top. Loaded 50 µg.

Aliquot information

18 x 0.25 mg = 4.5 mg

MALDI-TOF



Purified 21.Rv.9.13.02.TMM was loaded at 0.5 μg and 1.0 μg , overlaid with 0.5 DHB matrix, and analyzed with reflector positive mode.

Dan Wilson 9/17/21
(Research Associate) date

C. Sheppy 9/20/21
(Laboratory Supervisor) date