

Mycobacterium tuberculosis*, Strain H37Rv, Purified Trehalose Dimycolate (TDM)*Catalog No. NR-14844**

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Product Description: NR-14844 is a preparation of purified trehalose dimycolate (TDM) that was extracted from the lipid fraction obtained from irradiated *Mycobacterium tuberculosis*, strain H37Rv cells. Following purification steps, the TDM was dried under nitrogen gas.

Lot: 64091714**Manufacturing Date: 29MAR2016**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 16.Rv.3.28.01.TDM is attached.

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WORK SHEET FOR PURIFIED TREHALOSE DIMYCOLATE (TDM)

General Information

BEI Catalog Number: NR-14844
CSU Lot Number: 16.Rv.3.28.01.TDM
Species: *M. tuberculosis*
Strain: H37Rv

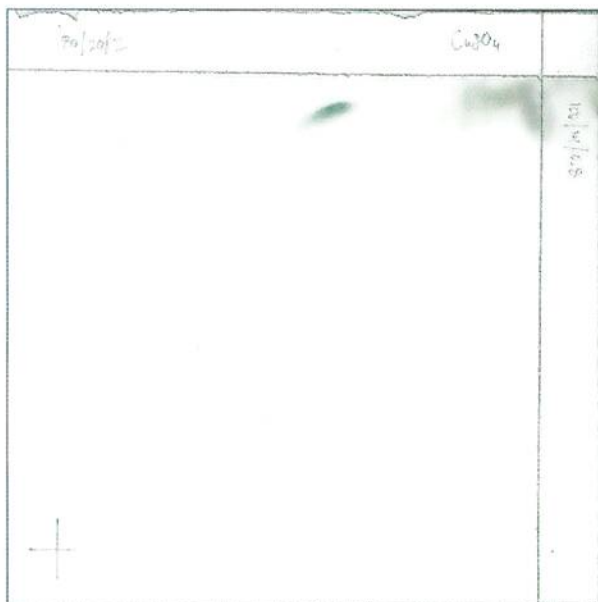
Purification Information

Starting material: 10:10:3 total lipid
Lot number: 13.Rv.2.8.6.7.WCg
Cells Irradiated: Yes
Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP029.2, SP031, SP032, SP033, SP037
Date started: 12/15/15
Date completed: 3/29/16
Notebook; page(s): TDM/TMM/SL Notebook 3 pp 1-31
Additional notes (if applicable): N/A

Quality Control Information:

Total volume: 2.96 ml Total amount of SL: 1.48 mg
Date dried on N₂ bath: 3/29/16
TLC date: 3/28/16 Notebook and page(s): TDM/TMM/SL Notebook 3 pp 32-34

QC TLC:



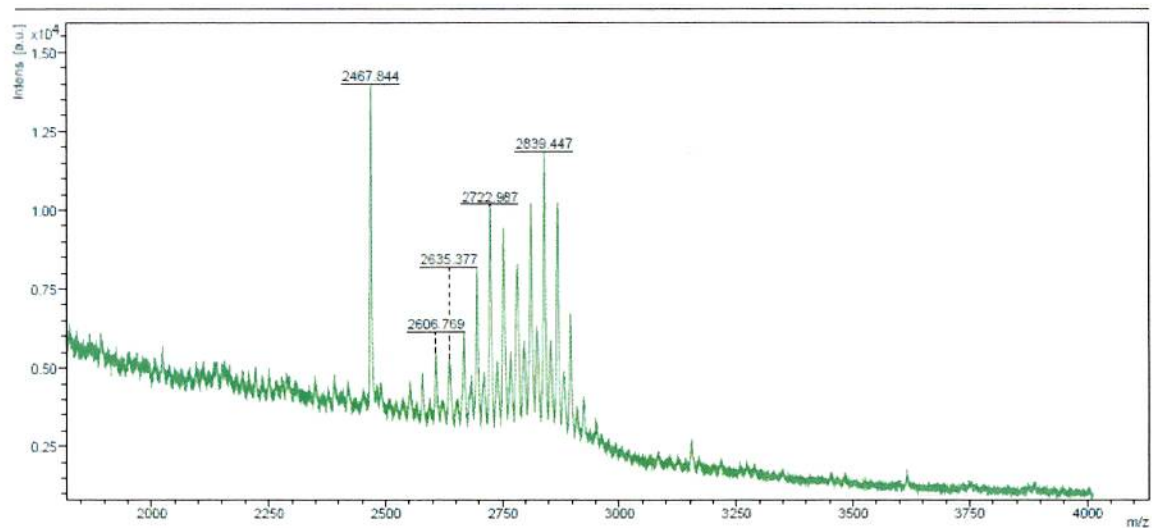
Developed 10 μ g first dimension (left to right) in 100/14/0.8 chloroform/ methanol/ water; second dimension (bottom to top) in 80/20/2, same solvents.

This TLC stained with CuSO₄ and charring. Duplicate with α -naphthol found on p33.

Aliquot Information:

5 x 0.25 mg = 1.25 mg
1 x 0.23 mg = 0.23 mg
total 1.48 mg

MALDI-TOF:



Loaded 1 μ l (2 μ g) TDM with 1 μ l DHB matrix and analyzed in positive mode.

Sam C. Jessor 3/29/16
(Research Associate) date

C. McHaffey 3-30-16
(Laboratory Supervisor) date