

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: 62575031**Manufacturing Date: 25JUL2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 14.Rv.7.23.02.TDM is attached.

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WORK SHEET FOR PURIFIED TDM

General Information

Lot Number: 14.Rv.7.23.02.TDM
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: 2:1 chloroform/methanol total lipid May 2014
Lot number: Whole cells 13.Rv.2.3.19.8.WCg
Protocol used (SOP #'s): SP031, SP032, SP033, SP037, SP046, PP029a
Date started: 5/28/14
Date completed: 7/25/14
Notebook; page(s): TDM/SL Notebook 2 pp 79-87

Additional notes: Preparatory plates were loaded with total lipid and developed with 100/14/0.8 chloroform/ methanol/water, then TDM was extracted separately with 2:1 chloroform/ methanol. C18 SepPak filtration was used for clean-up.

Quality Control Information:

Total volume: 0.48 ml Total amount of TDM: 1.2 mg
TLC date: 7/11/14 Date dried on N₂ bath: 7/25/14
Notebook and page(s): TDM/SL Notebook 2 pp 88-92

TLC Analysis:

TLC solvent system



1st dimension 100/14/0.8 chloroform/
methanol/ water, left to right.

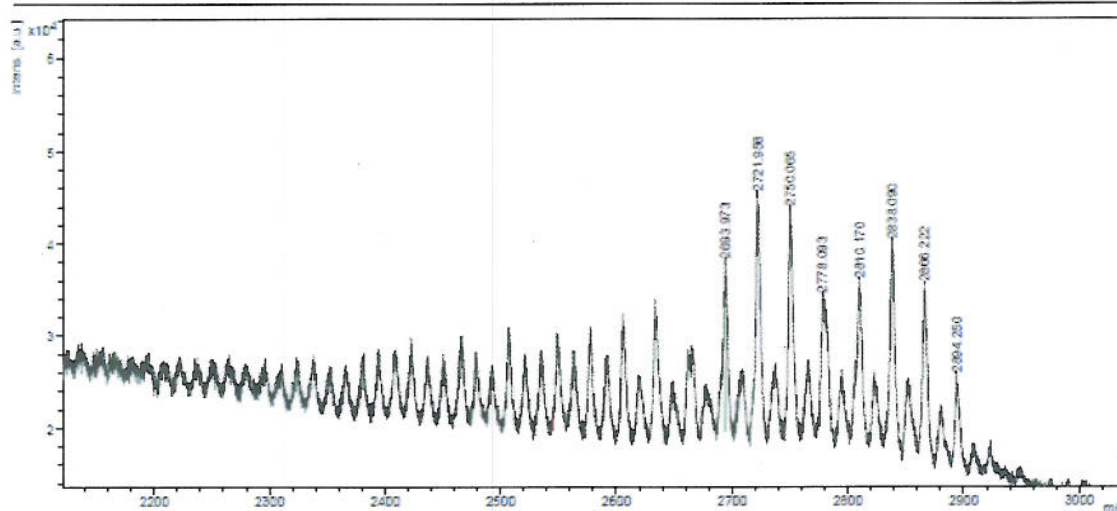
2nd dimension 80/20/2 chloroform/
methanol/ water, bottom to top.

Loaded approximately 20 μ g TDM.

Aliquot information

4 x 0.25 mg = 1.0 mg
1 x 0.20 mg = 0.2 mg
1.2 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.

Dany Lutman 7/25/14
(Research Associate) date

[Signature] 7/25/2014
(Laboratory Supervisor) date