

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

This reagent is the tangible property of the U.S. Government.

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: 63050375**Manufacturing Date: 22MAY2015**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 15.Rv.03.12.01.TDM is attached.

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WORK SHEET FOR PURIFIED TDM

General Information

Lot Number: 15.Rv.03.12.01.TDM
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: 10:10:3 TL
Lot number: Whole cells 14.Rv.2.6.3.4.WCg.c
Protocol used (SOP #'s): SP031, SP032, SP033, SP037, SP046, PP029a
Date started: 1/16/15
Date completed: 5/22/15
Notebook; page(s): TMM Notebook I pp 58-72

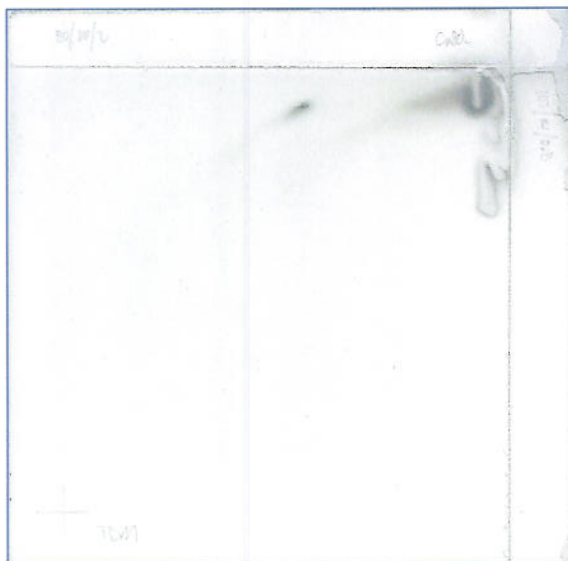
Additional notes: Preparatory plates were loaded with total lipid and developed with 80/20/2 chloroform/methanol/water, then TDM was extracted separately with 2:1 chloroform/methanol. An additional round of clean-up was employed on prep plates developed with 100/14/0.8 (same solvents).

Quality Control Information:

Total amount of TDM: 6.0 mg TLC date: 3/12/15 Date dried on N₂ bath: 3/24/15
Notebook and page(s): TMM I pp 75-82

TLC Analysis:

TLC solvent system



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

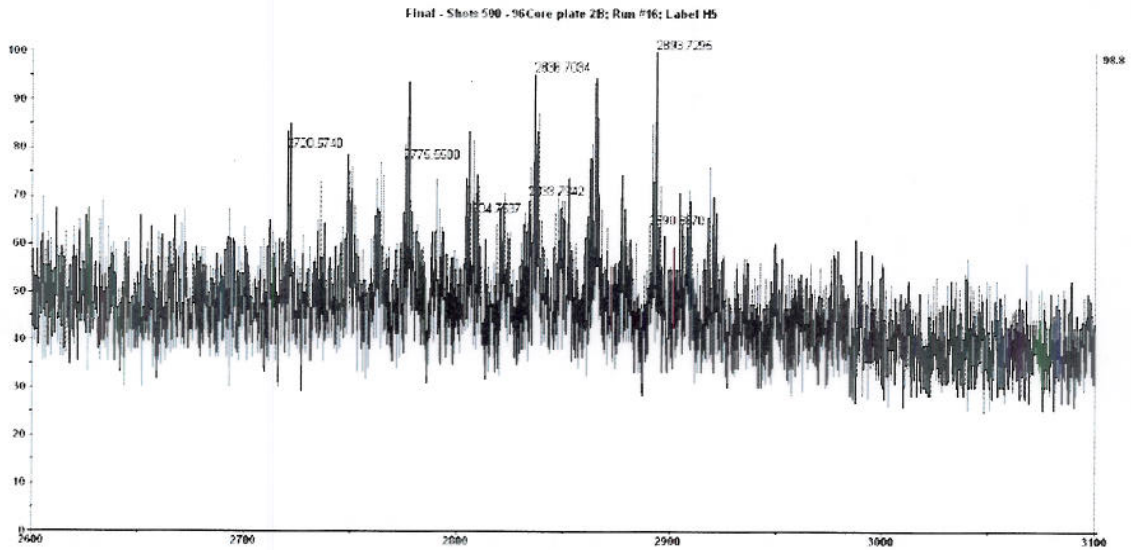
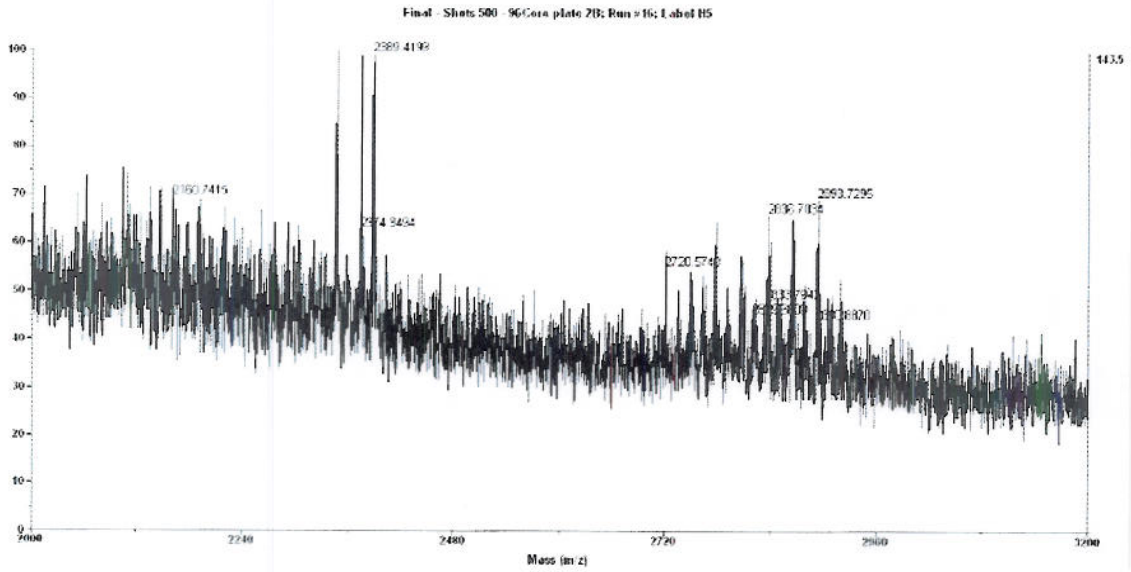
2nd dimension 80/20/2 chloroform/methanol/ water, bottom to top.

Loaded approximately 25 μ g TDM.

Aliquot information

$24 \times 0.25 \text{ mg} = 6.0 \text{ mg}$

MALDI Analysis



Purified sample (1 ul at 2.0 ug/ul) was mixed 1:1 with DHB matrix and analyzed in *positive* electrospray mode.

Dan Wilson 5/29/15
(Research Associate) date

[Signature] 5/29/15
(Laboratory Supervisor) date