

***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 *Mycobacterium tuberculosis*, strain H37Rv cells with chloroform/methanol (2:1) and purified on a silica gel column. The column was washed with chloroform and the TDM fraction was eluted with 5% methanol in chloroform. The eluted TDM was further purified on a C18 reverse phase Sep Pak filter and eluted with 60% chloroform in methanol. The purified TDM was completely dried under nitrogen gas.

**Lot: 61773629****Manufacturing Date: 31JAN2012**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for pre-vial bulk lot 11.Rv.1.27.01.TDM is attached. This lot was received as a dry pellet from CSU and was rehydrated in chloroform:methanol (2:1) at ATCC. Approximately 1 mL of a 250 µg/mL solution was dispensed per vial and lyophilized yielding a final amount of 250 µg per vial.

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## WORK SHEET FOR PURIFIED TDM

### General Information

Lot Number: 11.Rv.1.27.01.TDM

Species: *M. tuberculosis*

Strain: H37Rv

### Purification Information

Starting material: 2:1 chloroform/methanol total lipid Feb 2011

Lot number: Whole cells 10.Rv.2.3.22.6.WCg

Protocol used (SOP #'s): SP031, SP032, SP033, SP037, SP046, PP029a

Date started: 3/4/11

Date completed: 1/31/12

Notebook; page(s): Lipids Notebook 4 pp 3-44

Additional notes: Preparatory plates were loaded with total lipid and developed with 65/25/4 chloroform/methanol/water. Additional prep plates were used for further clean-up, according to PP029a. Total lipid was also applied to silica gel column, and both 5% and 10% MeOH washes, enriched in TDM, were likewise applied to prep plates.

### Quality Control Information:

Total volume: 2.16 ml

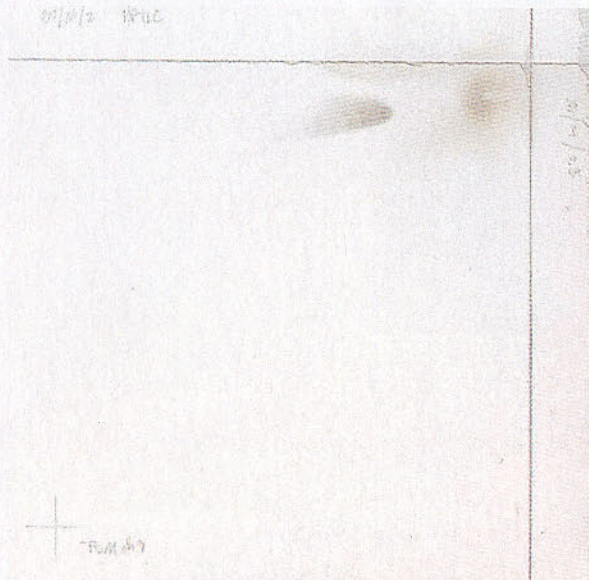
Total amount of TDM: 5.40 mg

TLC date: 1/9/12

Date dried on N<sub>2</sub> bath: 1/31/12

Notebook and page(s): Lipids Notebook 4 pp 45-48

### TLC Analysis:



### TLC solvent system

1<sup>st</sup> dimension 80/20/2 chloroform/ methanol/ water, bottom to top.

2<sup>nd</sup> dimension 100/14/0.8 chloroform/ methanol/ water, left to right.

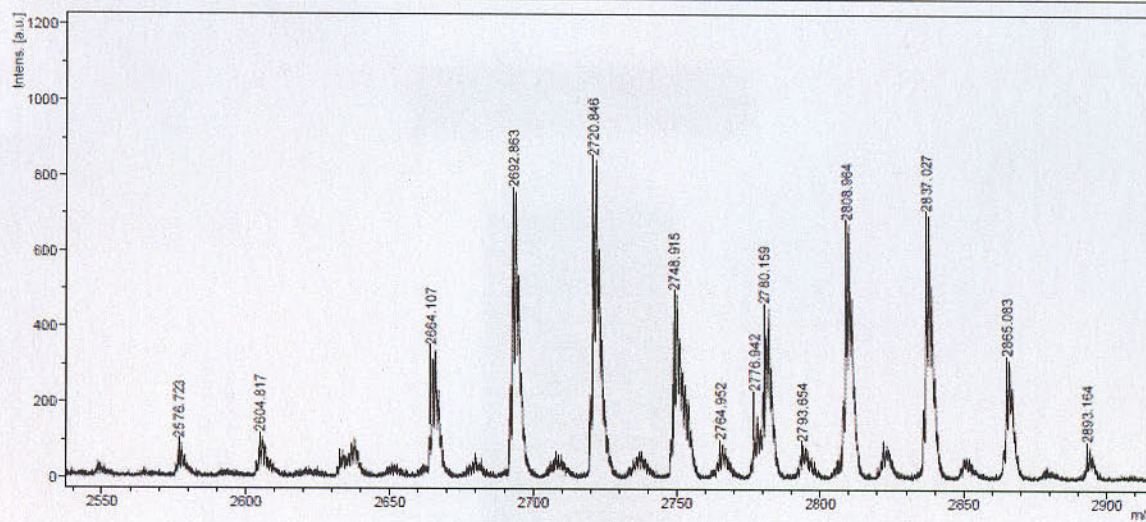
Loaded approximately 25 µg TDM.

### Aliquot information

1 x 5.40 mg

# MALDI Analysis

TDMab9



Purified sample (1 ul) was mixed 1:1 with DHB matrix and analyzed in negative electrospray mode.

Dan C. Jensen 5/1/12  
(Research Associate) date

[Signature] 5/2/2012  
(Laboratory Supervisor) date