

***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: 70005721****Manufacturing Date: 20JUL2017**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 17.Rv.2.19.01.TDM is attached.

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WORK SHEET FOR PURIFIED TREHALOSE DIMYCOLATE (TDM)

General Information

BEI Catalog Number: NR-14844  
CSU Lot Number: 17.Rv.2.19.01.TDM  
Species: M. tuberculosis  
Strain: H37Rv

Purification Information

Starting material: 2:1 total lipid  
Lot number: 17.Rv.2.3.8.8.WCg.b  
Cells Irradiated: Yes  
Viability Test Performed: No Viable Organism Detected  
Protocol used (SOP #'s): PP029.2, SP031, SP032, SP033, SP037  
Date started: 5/30/17  
Date completed: 7/20/17  
Notebook; page(s): TDM/TMM/SL Notebook 3 pp 85-100  
Additional notes (if applicable): N/A

Quality Control Information:

Total amount of TDM: 9.294 mg Date dried on N<sub>2</sub> bath: 7/20/17  
TLC date: 7/18/17 Notebook and page(s): Lipids Notebook 8 pp 1-7

QC TLC:



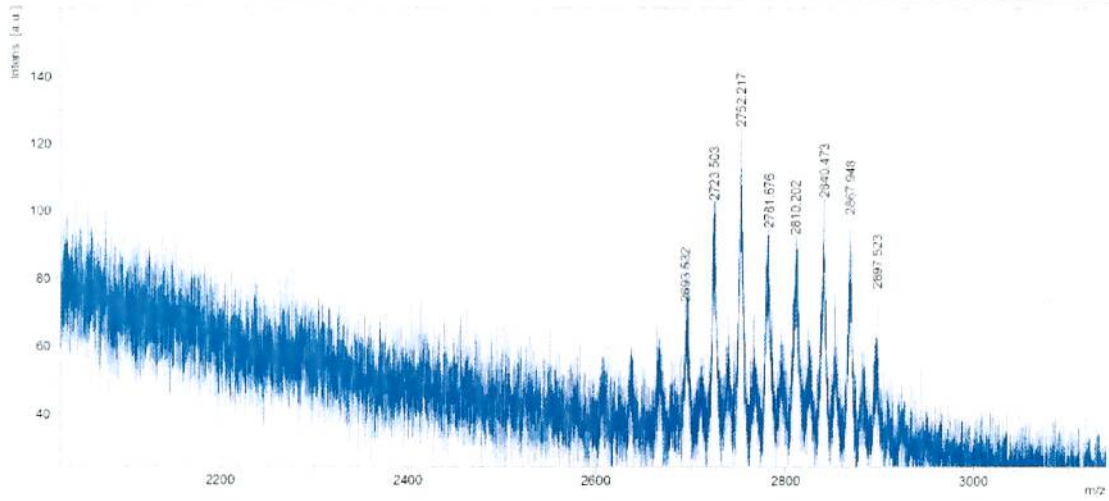
Developed 100 µg first dimension (left to right) in 100/14/0.8 chloroform/ methanol/ water; second dimension (bottom to top) in 90/10 chloroform/water.

Stained with CuSO<sub>4</sub> and charring.


Aliquot Information:

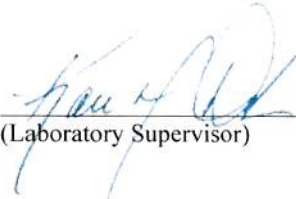
$$\begin{aligned} 36 & \times 0.250 \text{ mg} = 9.000 \text{ mg} \\ 1 & \times 0.294 \text{ mg} = \underline{0.294 \text{ mg}} \\ & \qquad \qquad \qquad 9.294 \text{ mg} \end{aligned}$$

**MALDI-TOF:**



Loaded 0.5  $\mu$ l (2.5  $\mu$ g) TDM with 0.5  $\mu$ l DHB matrix and analyzed in positive mode.

 7/24/17  
\_\_\_\_\_  
(Research Associate) date

 July 24, 2017  
\_\_\_\_\_  
(Laboratory Supervisor) date