

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.

Lot: 70037228**Manufacturing Date: 16OCT2020**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 20.Rv.10.14.04.TDM is attached.

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WORK SHEET FOR PURIFIED TREHALOSE DIMYCOLATE (TDM)

General Information

BEI Catalog Number: NR-14844
CSU Lot Number: 20.Rv.10.14.04.TDM
Species: *M. tuberculosis*
Strain: H37Rv

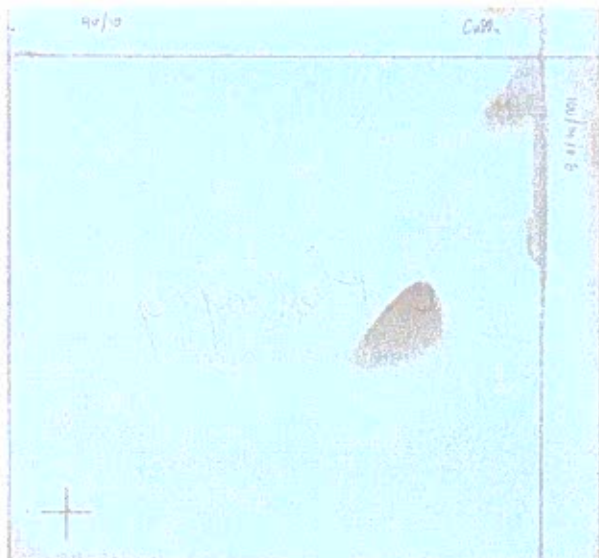
Purification Information

Starting material: 2:1 total lipid
Lot number: 17.Rv.2.11.1.11.WCg.a
Cells Irradiated: Yes
Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP029.2, SP031, SP032, SP033, SP037
Date started: 6/30/20
Date completed: 10/16/20
Notebook; page(s): Lipids 9 pp 87-89, 102-112
Additional notes (if applicable): 2:1 total lipid was enriched for TDM through a silica flash column scheme, then isolated by running 8 preparative TLC plates. The crude TDM was cleaned via C18 SepPak columns.

Quality Control Information:

Total amount of TDM: 18.9 mg Date dried on N₂ bath: 10/16/20
TLC date: 10/14/20 Notebook and page(s): Lipids 9 pp 113-116

QC TLC:



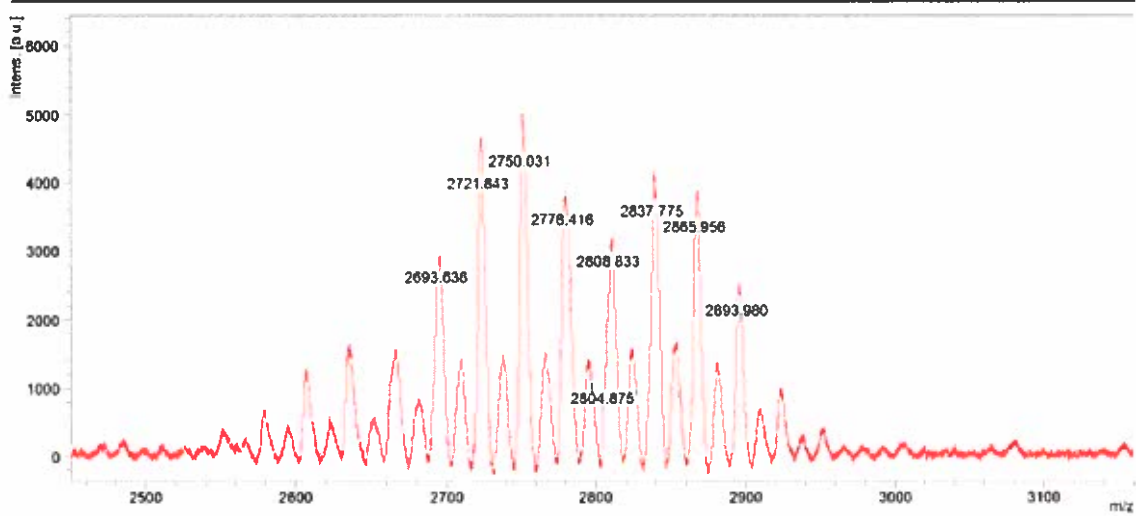
Developed 100 μ g first dimension (left to right) in 100/14/0.8 chloroform/ methanol/ water; second dimension (bottom to top) in 90/10 chloroform/water.

Stained with CuSO₄ and charring.

Aliquot Information:

36 x 0.25 mg = 9.0 mg
1 x 9.90 mg = 9.9 mg
18.9 mg

MALDI-TOF:



Spotted 2.5 μ g TDM, overlaid with DHB matrix suspended in 2:1 chloroform/methanol, analyzed in positive mode.

Dan Wilson 10/22/20
(Research Associate) date

C. Peliassy 10/22/20
(Laboratory Supervisor) date