

***Mycobacterium tuberculosis*, Strain H37Rv, Purified Phthiocerol Dimycocerosate (PDIM)**

Catalog No. NR-20328

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

Product Description: NR-20328 is a preparation of phthiocerol dimycocerosate (PDIM) derived from the total cellular lipids of irradiated *Mycobacterium tuberculosis*, strain H37Rv.

Lot: 63794062

Manufacturing Date: 29MAR2016

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 16.Rv.3.25.01.PDIM is attached.

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WORK SHEET FOR LIPID FRACTIONS

General Information

BEI Catalog Number: NR-20328
CSU Lot Number: 16.Rv.3.25.01.PDIM
Fraction Type: phthiocerol dimycocerosate
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

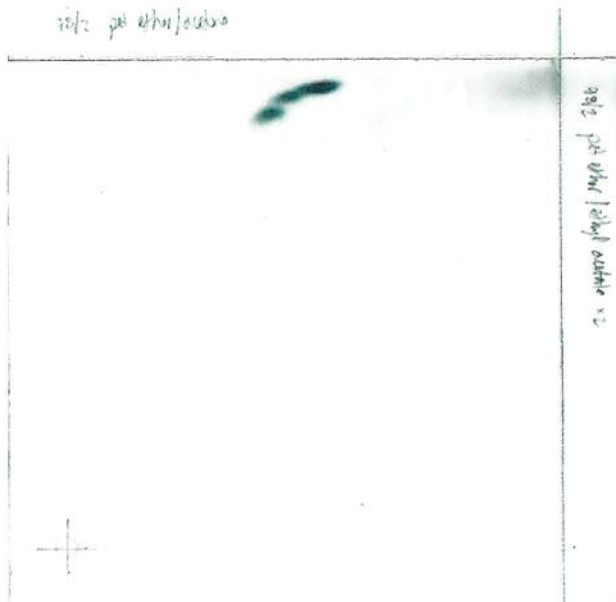
Starting material: 10:10:3 total lipid _____ Starting Material Lot #: 13.Rv.2.9.10.4.WCg
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): SP031, SP032, SP033, SP037.1
Date started: 1/26/16
Date completed: 3/29/16
Notebook; page(s): PDIM Notebook 2 pp 29-37
Additional notes (if applicable): N/A

Quality Control Information:

Total volume: 13.3 mL Total amount of PDIM: 13.3 mg
Date dried on N₂ bath: 3/29/16
TLC date: 3/25/16 Notebook and page(s): PDIM Notebook 2 pp 37-40
TLC Solvent System: 1st dim (left to right) 98/2 petroleum ether/ethyl acetate x2 2nd dim (bottom to top) 98/2 petroleum ether/acetone

QC TLC:

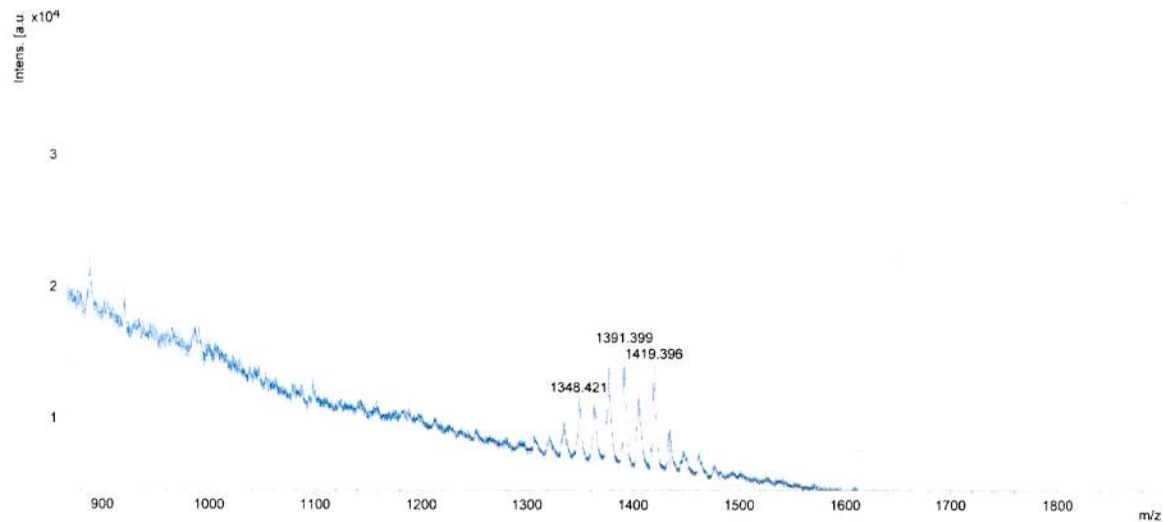
Loaded 20 µg and developed with system described above; stained with CuSO₄ and charring.



Aliquot Information:

26 x 0.5 mg = 13.0 mg
1 x 0.3 mg = 0.3 mg
Total **13.3 mg**

MALDI-TOF:



Mixed PDIM with DHB matrix 1:1 and analyzed in positive mode.

Dan C. Assen 3/30/16
(Research Associate) date

C. McHaffey 3/30/16
(Laboratory Supervisor) date

Jessie Gaurt
(Research Associate Student) date