

Mycobacterium tuberculosis*, Strain H37Rv, Purified Phthiocerol Dimycocerosate (PDIM)*Catalog No. NR-20328**

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Product Description:

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

Lot: 70017942**Manufacturing Date: 13JUN2019**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 19.Rv.6.12.01.PDIM is attached.

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

BEI Catalog Number: NR-20328
CSU Lot Number: 19.Rv.6.12.01.PDIM
Fraction Type: pthiocerol dimycocerosate
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: 2:1 TL Starting Material Lot #: 18.Rv.2.1.31.9.WCg.a
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): SP031, SP032, SP033, SP037.4
Date started: 4/3/19
Date completed: 6/13/19
Notebook; page(s): Lipids Ntbk 8 pp 65-66; PDIM Ntbk 2 pp 73-79

Additional notes: Total lipid from H37Rv was applied to 35 preparative TLC plates and extracted. Crude PDIM was further purified by an additional two rounds of preparative plate extractions.

Quality Control Information:

Total amount of PDIM : 28.2 mg MALDI-TOF completed: 6/12/19
TLC date: 6/11/19 Date dried on N₂ bath: 6/13/19
Notebook and page(s): PDIM Notebook 2 pp 80-83

TLC Analysis:



Loaded 50 ug and ran in dimensions below:

- 1st 98/2 petroleum ether/ethyl acetate (x2)
- 2nd 99/1 petroleum ether/acetone

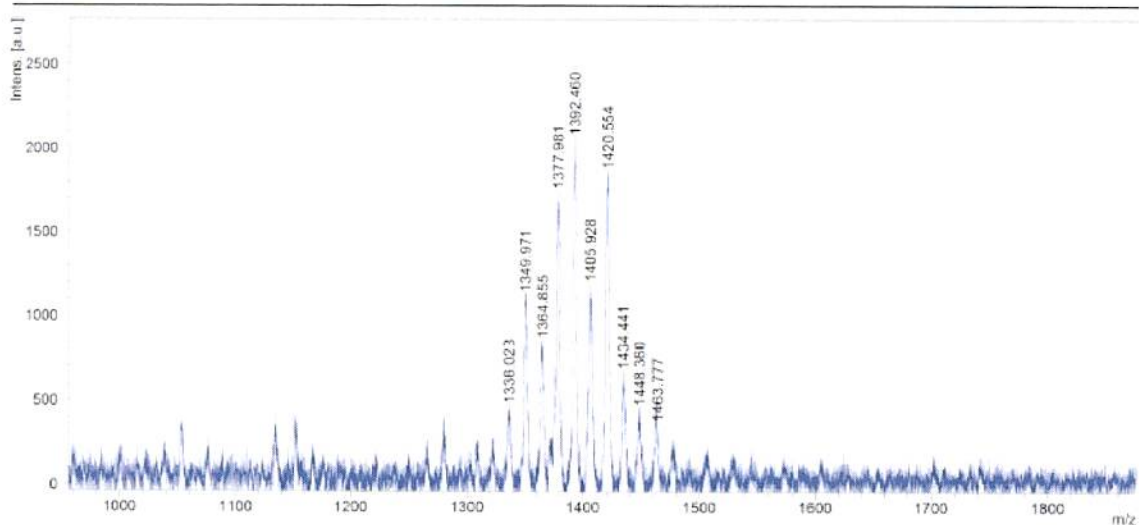
1st →

↑
2nd

Aliquot Information

0.5 mg x 30 = 15.0 mg
13.2 mg x 1 = 13.2 mg
28.2mg

QC MALDI-TOF:



Loaded 1.0 μ g PDIM at 2.0 mg/ml in 2:1 chloroform/methanol on MALDI plate, dried, and then overlaid with 1 μ l DHB matrix, then analyzed in positive mode.

Don Curran 6/13/19

(Research Associate) date

C. Pichay 6/14/19

(Laboratory Supervisor) date