

***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: 70005741

Manufacturing Date: 28AUG2017

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 17.Rv.8.21.02.PDIM is attached.

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WORK SHEET FOR LIPID FRACTIONS

General Information

BEI Catalog Number: NR-20328
CSU Lot Number: 17.Rv.8.21.02.PDIM
Fraction Type: phthiocerol dimycocerosate
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

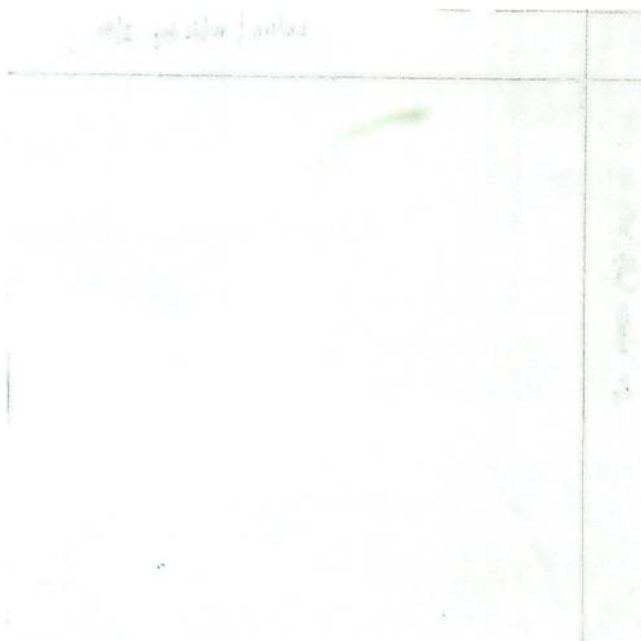
Starting material: 2:1 total lipid Starting Material Lot #: 17.Rv.2.3.8.8.WCg
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): SP031, SP032, SP033, SP037.1
Date started: 7/7/17
Date completed: 8/28/17
Notebook; page(s): PDIM Notebook 2 pp 59-62

Notes: Total lipid (2:1 chloroform/methanol) was developed on preparative TLC plates with 98/2 petroleum ether/ ethyl acetate, then the top three bands eluted from silica with 2:1. Lipids were further purified by an additional round of preparative plate TLC.

Quality Control Information:

Total amount of PDIM: 17.346 mg TLC date: 8/21/17
Notebook and page(s): PDIM Notebook 2 pp 63-66 MALDI date: 8/25/17

QC TLC:



Loaded 25 μg and developed with the following system:

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

Stained with CuSO_4 and charring.

1st →

↑
2nd

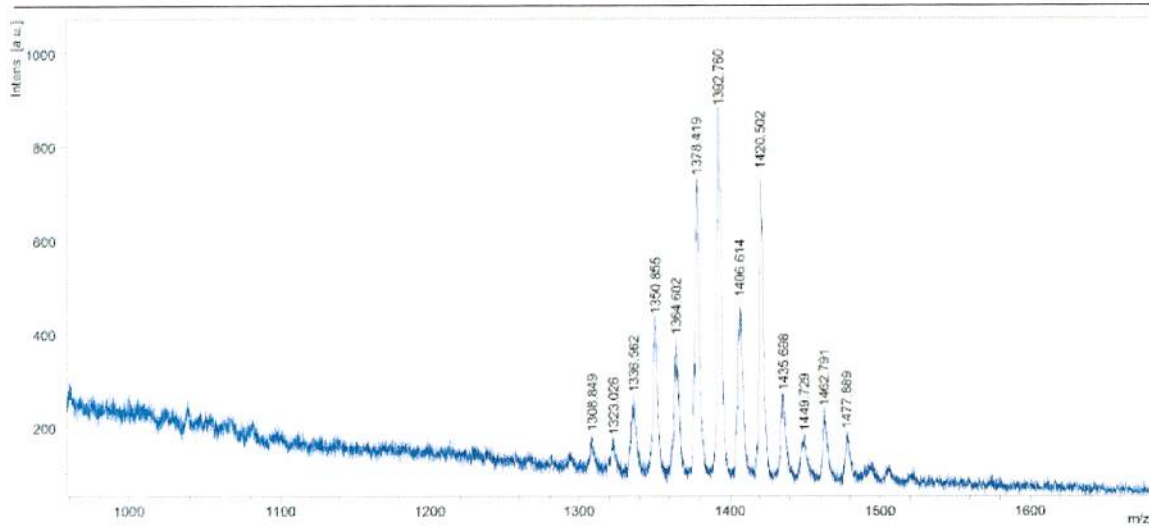
Aliquot Information:

0.500 mg x 34 = 17.000 mg

0.346 mg x 1 = 0.346 mg

17.346 mg

MALDI-TOF:



An equal volume (0.5 μ l) of PDIM at 1.0 mg/ml in 2:1 chloroform/ methanol was overlaid with DHB matrix after drying, then analyzed in positive mode.

[Signature] 8/30/17

(Research Associate) date

C. McHaffey 8-30-17

(Laboratory Supervisor) date