

***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: 63050376

Manufacturing Date: 18MAY2015

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 15.Rv.2.19.01.PDIM is attached.

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Worksheet for Purified PDIM

General Information

Lot Number: 15.Rv.2.19.01.PDIM

Species: *M. tuberculosis*

Strain: H37Rv

Purification Information

Starting material: 10:10:3 (chloroform/methanol/water) total lipid extract

Lot number: 13.Rv.2.3.12.8.WCg

Protocol used (SOP #'s): SP031, SP032, SP033, SP037.1

Date started: 1/18/15

Date completed: 5/18/15

Notebook; page(s): PDIM Notebook 2 pp 1-8

Notes: Total lipid was dried, resuspended in 2:1 chloroform/methanol, and developed on preparative TLC plates with 98/2 petroleum ether/ethyl acetate, then the top three bands were eluted with 2:1 chloroform/methanol. Lipids were further purified by an additional round of prep plate extractions.

Quality Control Information:

Total amount of PDIM: 6.3 mg

TLC date: 2/19/15 MALDI date: 5/18/15 Notebook and page(s): PDIM Notebook 2 pp 9-14

QC TLC:



Loaded 25 ug and ran in dimensions below:

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

2nd 98/2 petroleum ether/acetone

1st →

↑
2nd

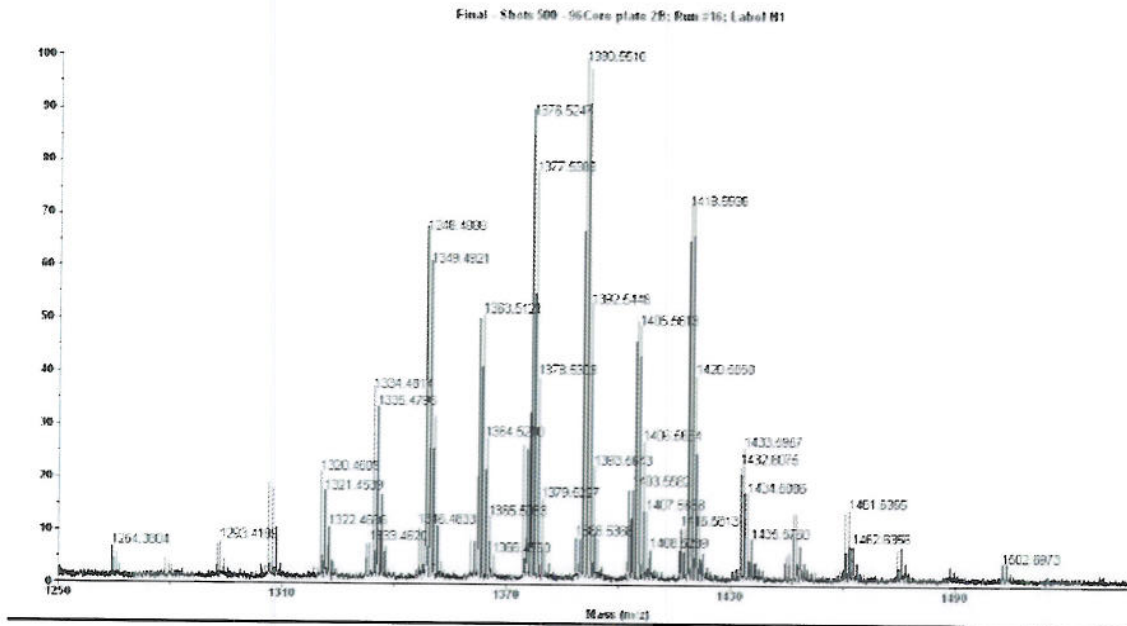
Aliquot Information

0.5 mg x 12 = 6.0 mg

0.3 mg x 1 = 0.3 mg

6.3 mg

QC MALDI-TOF:



Equal volumes (1 ul) of PDIM at 1.0 mg/ml in 2:1 chloroform/methanol and DHB matrix were mixed, then analyzed in positive electropray mode.

Dan C. Jones 5/19/15
(Research Associate) date

[Signature] 5/22/2015
(Laboratory Supervisor) date