

***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: 62325999****Manufacturing Date: 12MAR2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 14.Rv.3.10.01.PDIM is attached.

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## Worksheet for Purified PDIM

### General Information

Lot Number: 14.Rv.3.10.01.PDIM

Species: *M. tuberculosis*

Strain: H37Rv

### Purification Information

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

Lot number: 13.Rv.2.10.22.7.WCg(a,b)

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

Date started: 2/10/14

Date completed: 3/12/14

Notebook; page(s): PDIM Notebook 1 pp 79-86

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:

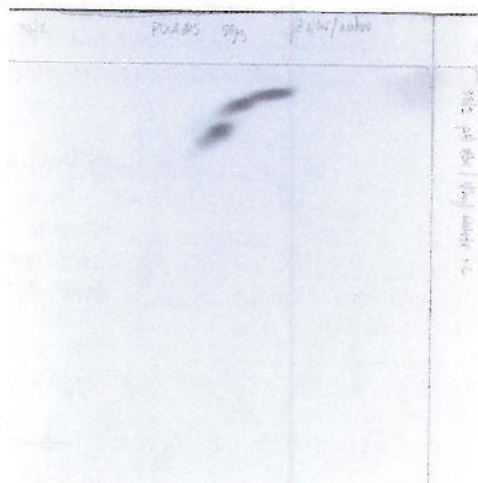
Total volume: 2.0 ml

Total amount of PDIM: 10.0 mg

Date dried on N<sub>2</sub> bath: 3/10/14

TLC date: 3/10/14 MALDI date: 3/12/14 Notebook and page(s): PDIM Notebook 1 pp 86-88

### QC TLC:



Loaded 50 ug and ran in dimensions below:

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

2<sup>nd</sup> 98/2 petroleum ether/acetone

### Aliquot Information

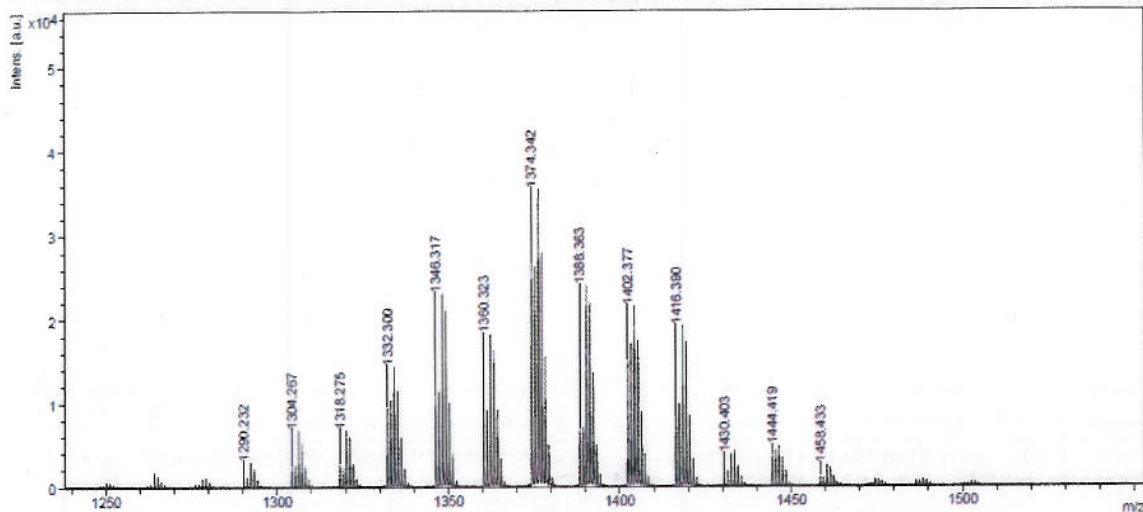
0.5 mg x 20 = 10.0 mg

1<sup>st</sup> →

↑  
2<sup>nd</sup>

QC MALDI-TOF:

plithicicol dimycolate (PDDMdb5)



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 electrospray mode.

*Dan G. Jensen* 3/12/14

(Research Associate)

date

*[Signature]* 3/13/2014

(Laboratory Supervisor)

date