

***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: 70053422****Manufacturing Date: 01AUG2022**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 22.Rv.08.01.PDIM is attached.

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## WORK SHEET FOR PURIFIED LIPID FRACTIONS

### General Information

BEI Catalog Number: NR-20328  
CSU Lot Number: 22.Rv.08.01.PDIM  
Fraction Type: phthiocerol dimycocerosate  
Species: *M. tuberculosis*  
Strain: H37Rv

### Purification Information

Starting material: 2:1 (CHCl<sub>3</sub>/MeOH) Total Lipid Starting Material Lot #: 18.Rv.2.5.2.8.WCg.a  
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected  
Protocol used (SOP #'s): PP037.3  
Date started: 5/25/2022  
Date completed: 8/1/2022  
Notebook; page(s): BM BEI Notebook #1. pg. 52 - 62

Additional notes (if applicable): N/A

### Quality Control Information:

Total amount of PDIM: 113.4 mg MALDI-TOF completed: 7/28/2022  
Date dried on N<sub>2</sub> bath: 8/1/2022  
TLC date: 6/29/2022 Notebook and page(s): BM BEI Notebook #1, pg. 55

### QC TLC:



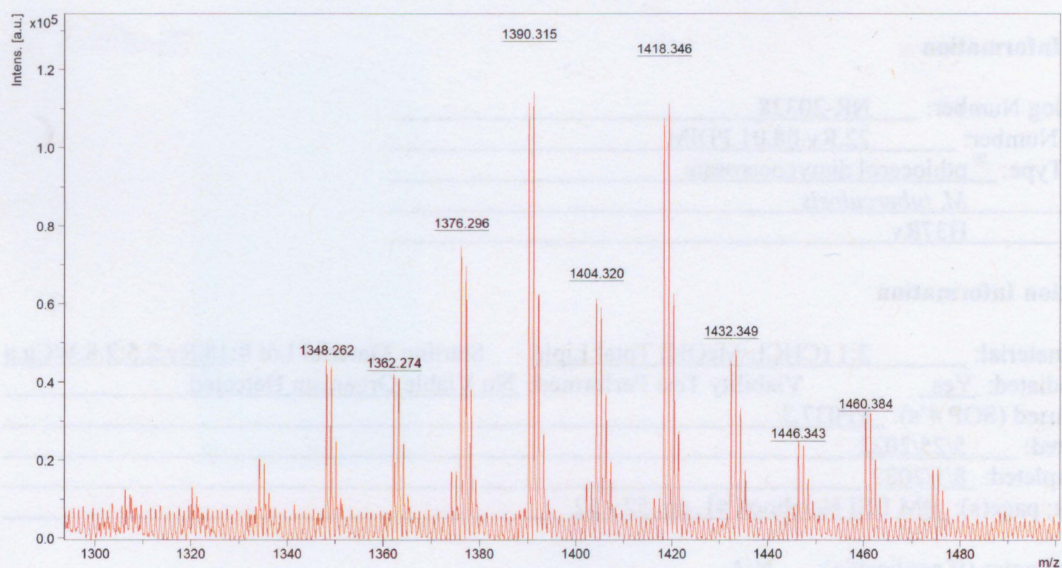
Loaded 20 ug and ran in dimensions below:

1<sup>st</sup> 98/2 petroleum ether/ethyl acetate (x2)  
2<sup>nd</sup> 99/1 petroleum ether/acetone

### Aliquot information

**0.5 mg x 40 = 20.0 mg**  
**Remaining 93.4 mg in bulk**

QC MALDI-TOF:



Loaded 0.5 ug PDIM at 2.0 mg/mL in 2:1 chloroform/methanol on MALDI plate. Dried, and then overlaid with 1 uL DHB matrix, analyzed in positive mode.

*Briana Marais*  
(Research Associate)

8/11/22  
date

*PA Staudumavis* 8/11/2022  
(Laboratory Supervisor) date