

***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: 70017848****Manufacturing Date: 20JUN2018**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 18.Rv.6.20.01.PDIM is attached.

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## WORK SHEET FOR PURIFIED LIPID FRACTION

### General Information

BEI Catalog Number: NR-20328  
CSU Lot Number: 18.Rv.6.20.01.PDIM  
Fraction Type: pthiocerol dimycoerolate  
Species: *M. tuberculosis*  
Strain: H37Rv

### Purification Information

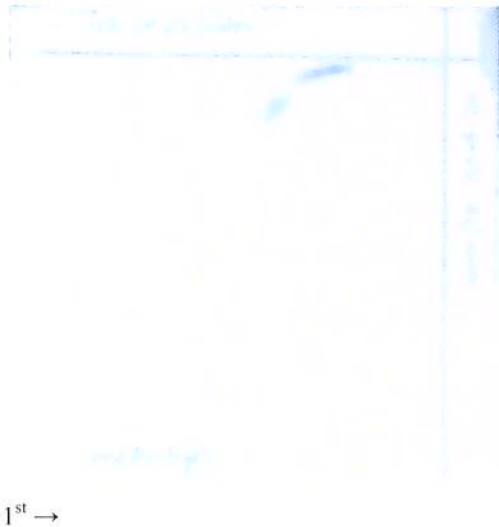
Starting material: 10:10:3 TL Starting Material Lot #: 14.Rv.1.28.6.WCg.b  
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected  
Protocol used (SOP #'s): SP031, SP032, SP033, SP037.1  
Date started: 5/23/18  
Date completed: 6/20/18  
Notebook; page(s): PDIM Notebook 2 pp 67-69

Additional notes: Lower organic layer of 10:10:3 total lipid was developed on 20 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 : 11.8 mg MALDI-TOF completed: 6/20/18  
TLC date: 6/19/18 Date dried on N<sub>2</sub> bath: 1/27/17  
Notebook and page(s): PDIM Notebook 2 pp 70-72

### TLC Analysis:



Loaded 118 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 23 = 11.5 mg  
0.3 mg x 1 = 0.3 mg  
11.8 mg

