

***Mycobacterium tuberculosis*, Strain H37Rv, Purified Phosphatidylinositol Mannosides 1 & 2 (PIM<sub>1,2</sub>)****Catalog No. NR-14846**

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**Product Description:**

NR-14846 is a preparation of the purified phosphatidylinositol mannosides 1 & 2 (PIM<sub>1,2</sub>) cell wall glycolipids of *Mycobacterium tuberculosis*, strain H37Rv.

**Lot: 70050228****Manufacturing Date: 01FEB2022**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 22.Rv.2.1.01.PIM<sub>1,2</sub> is attached.

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## WORK SHEET FOR PURIFIED PIM<sub>1+2</sub>

### General Information

BEI Catalog Number: NR-14846  
CSU Lot Number: 22.Rv.2.1.01.PIM<sub>1,2</sub>  
Species: *M. tuberculosis*  
Strain: H37Rv

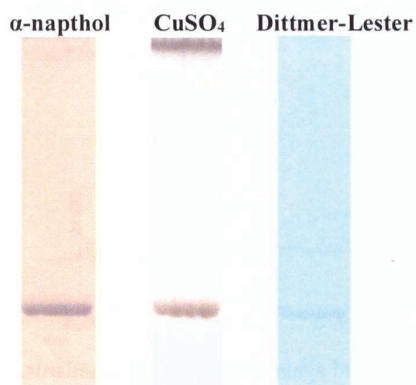
### Purification Information

Starting material: 2:1 Total lipid  
Lot number: 18.Rv.2.2.14.10.WCg.b  
Cells Irradiated: Yes  
Viability Test Performed: No Viable Organism Detected  
Protocol used (SOP #'s): PP026.5, SPO22.4, SP031b, SP032, SP033, SPO37, SPO45.2  
Date started: 11/1/2021  
Date completed: 2/1/2022  
Notebook; page(s): BM Notebook #1, pg. 1-40 & DH Lipids 10, pg. 56-75

### Quality Control Information:

Total volume: 710 uL Total amount of PIM<sub>1+2</sub>: 7.1 mg  
Date dried on N<sub>2</sub> bath: 2/1/2022  
TLC date: 12/16/2021 TLC solvent system: 65/25/4 CHCl<sub>3</sub>/MeOH/H<sub>2</sub>O Notebook and page(s): 24-25

### QC TLC and GC trace:



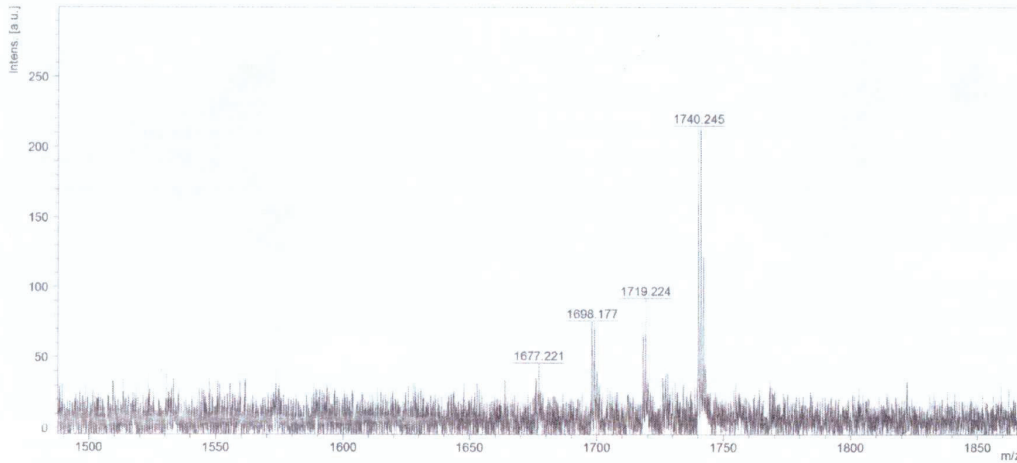
### Aliquot Information:

$14 \times 0.5 \text{ mg} = 7.0 \text{ mg}$

$7.1 \times 1.0 \text{ mg} = \underline{7.1 \text{ mg total}}$   
Remaining 0.1 mg in bulk

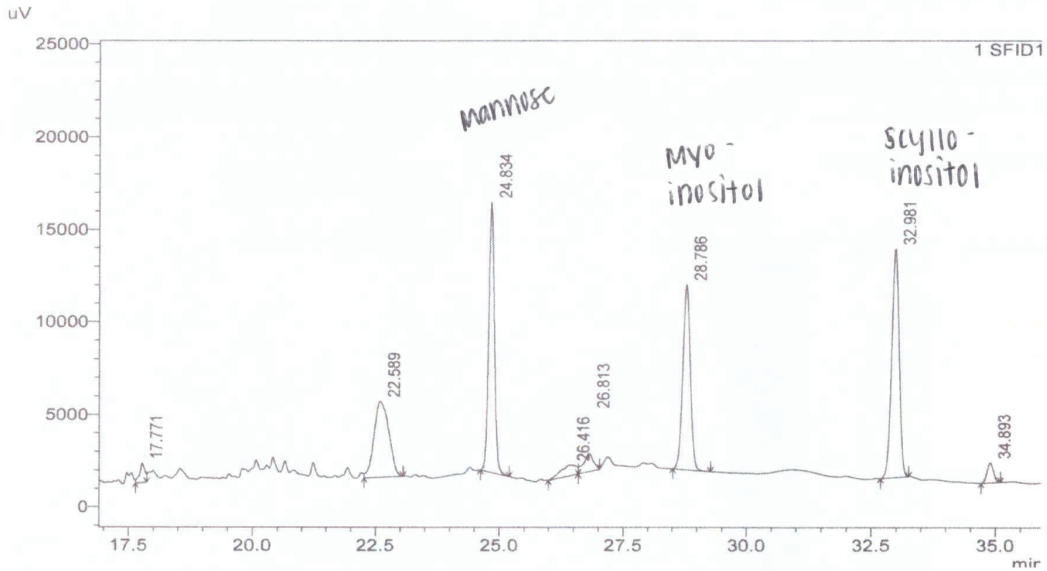
### MALDI-TOF:

PIMbml



Analyzed 1.0 ug 22.Rv.2.1.01.PIM<sub>1,2</sub> with 1.0 uL DHB matrix in reflector positive mode.

**GC Trace:**



Injected 20 ug alditol acetate derivative of 22.Rv.2.1.01.PIM<sub>1,2</sub> and analyzed against neutral sugar standards. Following peaks: xylose (22.589), mannose (24.834), myo-inositol (28.786), scyllo-inositol (32.981)

Briana Navarro 2/7/22  
(Research Associate) date

[Signature] 2/7/2022  
(Laboratory Supervisor) date