

Mycobacterium tuberculosis*, Strain H37Rv, Purified Phosphatidylinositol Mannosides 1 & 2 (PIM_{1,2})*Catalog No. NR-14846**

This reagent is the tangible property of the U.S. Government.

Product Description: NR-14846 is a preparation of the purified phosphatidylinositol mannosides 1 & 2 (PIM_{1,2}) cell wall glycolipids of *Mycobacterium tuberculosis*, strain H37Rv. The soluble organic fraction was extracted from irradiated cells, dried and titrated with cold acetone. The acetone-insoluble fraction was then applied to preparative thin-layer chromatography plates in a solvent system of chloroform/methanol/water (60:30:6). PIMs were purified from the dried matrix using 40% methanol in chloroform.

Lot: 70017934**Manufacturing Date: 02APR2019**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 19.Rv.04.01.01.PIM_{1,2} is attached.

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

BEI Catalog Number: NR-14846
CSU Lot Number: 19.Rv.04.01.01.PIM_{1,2}
Fraction Type: phosphatidylinositol mannosides 1,2
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

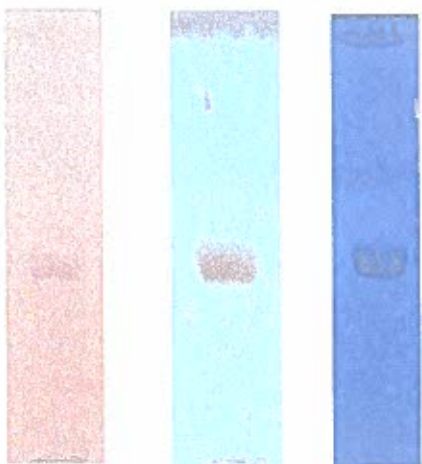
Starting material: 10:10:3 total lipid Starting Material Lot #: 13.Rv.2.3.12.8.WCg
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP026.2, SPO31b, SPO32, SPO33, SPO37, SPO45.2
Date started: 2/5/19
Date completed: 4/2/19
Notebook; page(s): PIM Notebook 1 pp 66-77

Quality Control Information:

Total amount of PIM_{1,2}: 5.43 mg MALDI-TOF completed: 4/1/19
TLC date: 4/1/19 Date dried on N₂ bath: 4/2/19
Notebook and page(s): PIM I pp 78-82

TLC Analysis:

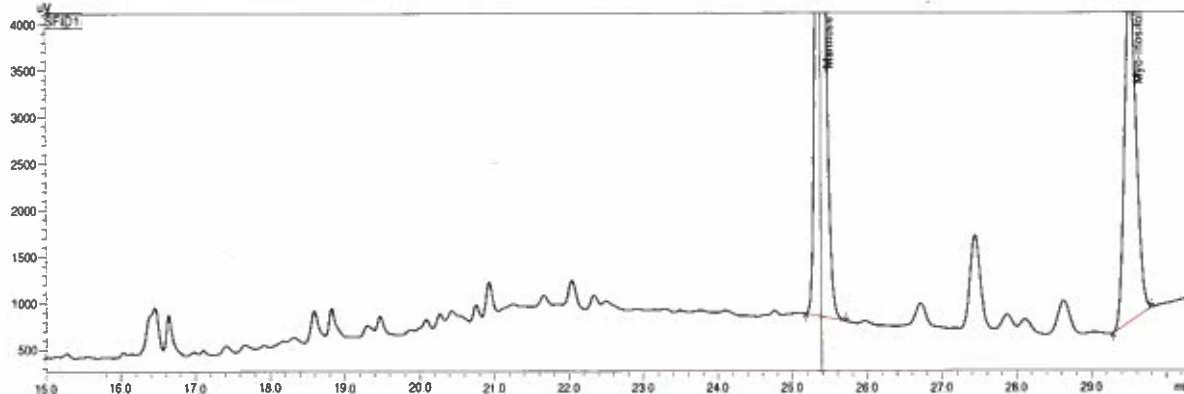
α-naphthol CuSO₄ Dittmer-Lester



Aliquot Information:

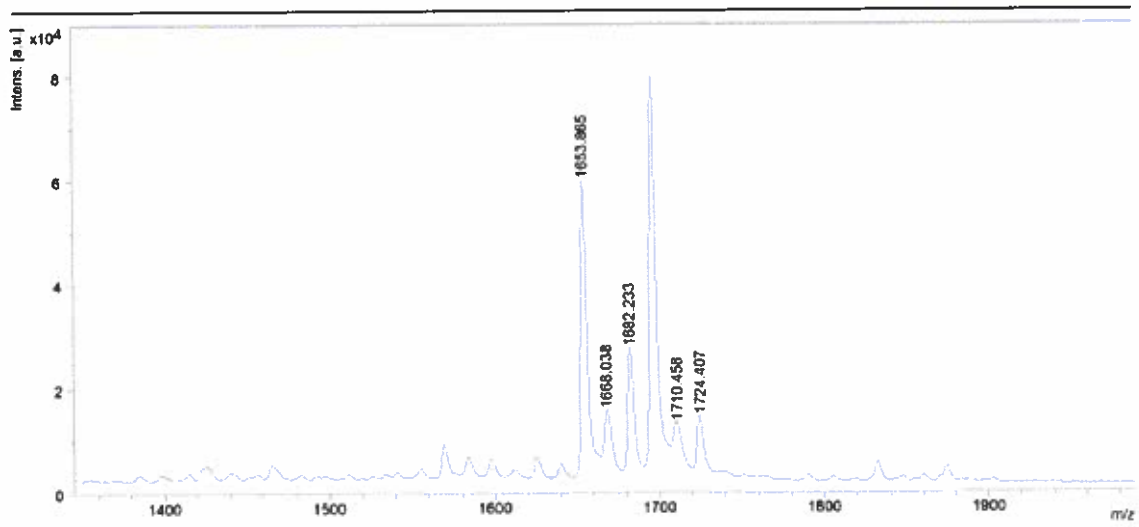
10 x 0.50 mg = 5.0 mg
1 x 0.43 mg = 0.43 mg
5.43 mg

GC trace:



Injected 0.62 ug 19.Rv.04.01.01.PIM_{1,2} based 100 ug PIM derivitized into alditol acetates.

MALDI-TOF



Analyzed 1.0 ug 19.Rv.04.01.01.PIM_{1,2} with 1.0 ul DHB matrix in negative mode.

Dany C. Damer 4/2/19
(Research Associate) date

C. McHaffey 4-3-19
(Laboratory Supervisor) date