

***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 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: 61977658

Manufacturing Date: 30DEC2013

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 13.Rv.12.6.01.PIM_{1,2} is attached.

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WORK SHEET FOR PURIFIED PIM₁₊₂

General Information

Lot Number: 13.Rv.12.6.01.PIM_{1,2}
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

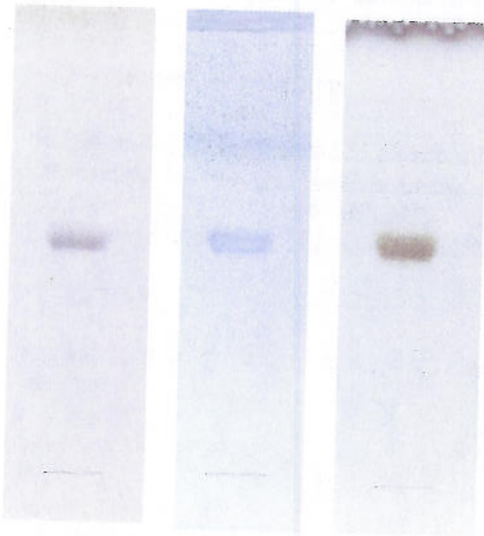
Starting material: 10:10:3 extracted acetone-insoluble lipid
Lot number: 13.Rv.2.3.12.8.WCg.a
Protocol used (SOP #'s): PP026.2, SPO31b, SPO32, SPO33, SPO37, SPO45.2
Date started: 11/11/13
Date completed: 12/30/13
Notebook; page(s): Lipids Notebook 7 pp.17-38

Quality Control Information:

Total volume: 5.0 ml Total amount of PIM_{1,2}: 50.0 mg
Date dried on N₂ bath: 12/10/13 Date of GC: 12/9/13 Date of MALDI: 12/30/13
TLC date: 12/6/13 Notebook and page(s): Lipids 7 pp. 39-44
TLC solvent system: 60:30:6 chloroform/methanol/water

QC TLC:

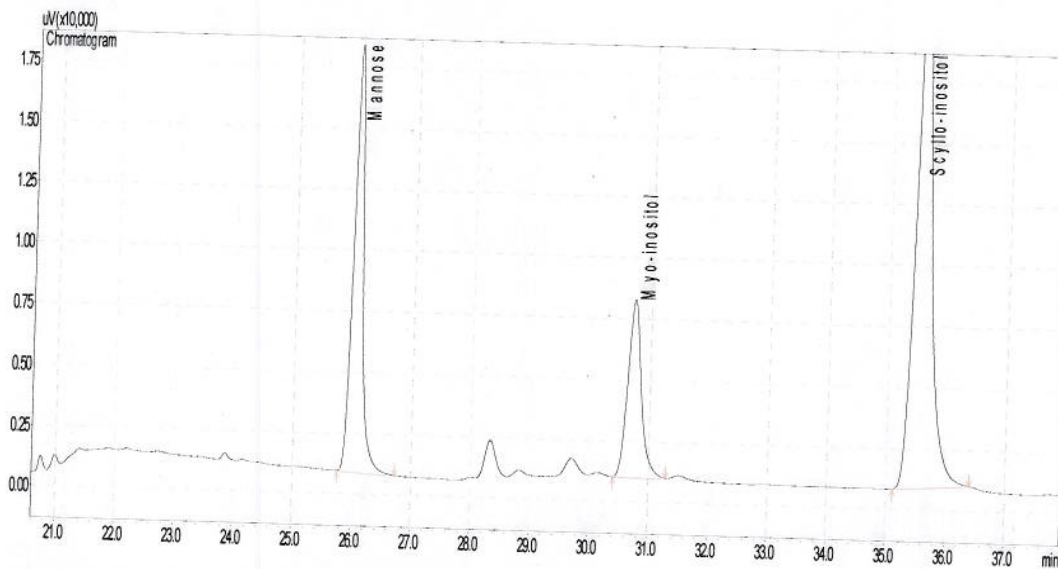
α -naphthol CuSO₄ Dittmer-Lester



Aliquot Information:

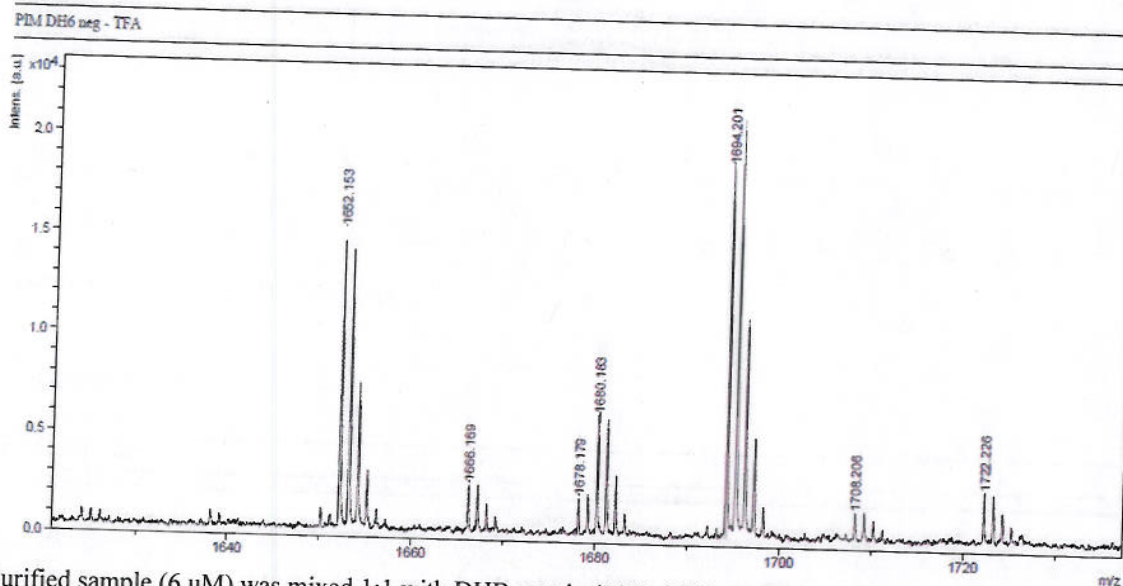
3 x 10.0 mg = 30.0 mg
40 x 0.5 mg = 20.0
50.0 mg

GC trace:



Used 200 ug 13.Rv.12.6.01.PIM_{1,2} for GC.

MALDI-TOF:



Purified sample (6 uM) was mixed 1:1 with DHB matrix (50% ACN, no TFA) and analyzed in negative electrospray mode.

Dan C. Jaiser 12/30/13
(Research Associate) date

[Signature] 12/30/2013
(Laboratory Supervisor) date