

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.

Lot: 70045511**Manufacturing Date: 22JUL2021**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 21.Rv.07.16.01.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: 21.Rv.07.16.01.PIM_{1,2}
Fraction Type: phosphatidylinositol mannosides 1,2
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

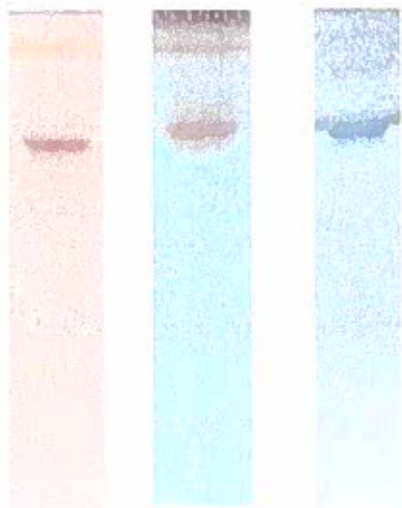
Starting material: 2:1 total lipid Starting Material Lot #: 17.Rv.2.11.1.11..WCg.a
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP026.2, SPO31b, SPO32, SPO33, SPO37, SPO45.2
Date started: 5/4/21
Date completed: 7/22/21
Notebook; page(s): Lipids Notebook 10 pp 15-29

Quality Control Information:

Total amount of PIM_{1,2}: 13.0 mg MALDI-TOF completed: 7/16/21
TLC system: 65/25/4 CHCl₃/CH₃OH/H₂O TLC date: 7/8/21
Date dried on N₂ bath: 7/22/21 Notebook and page(s): Lipids 10 pp 30-36

TLC Analysis:

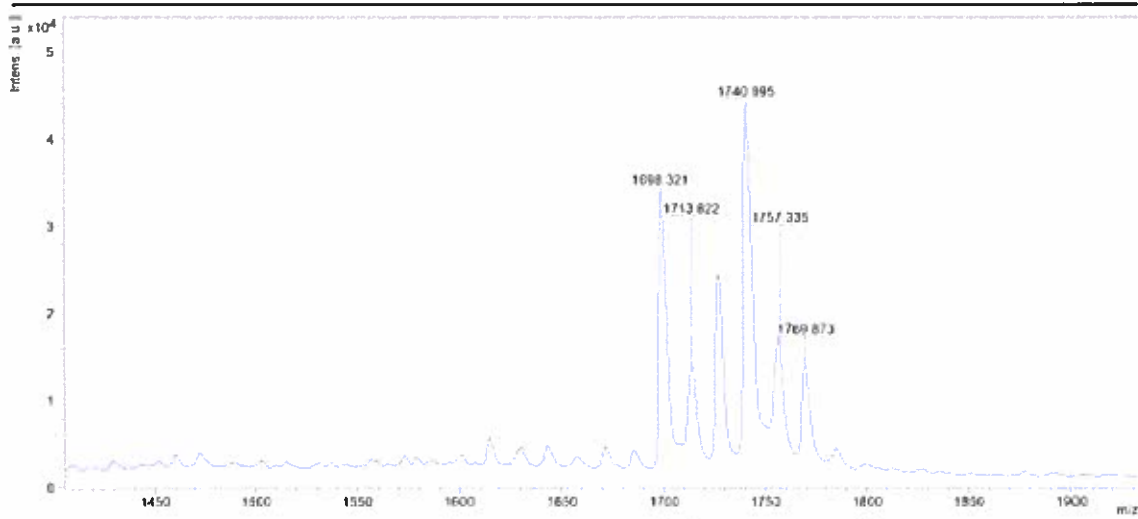
α -naphthol **CuSO₄** **Dittmer-Lester**



Aliquot Information:

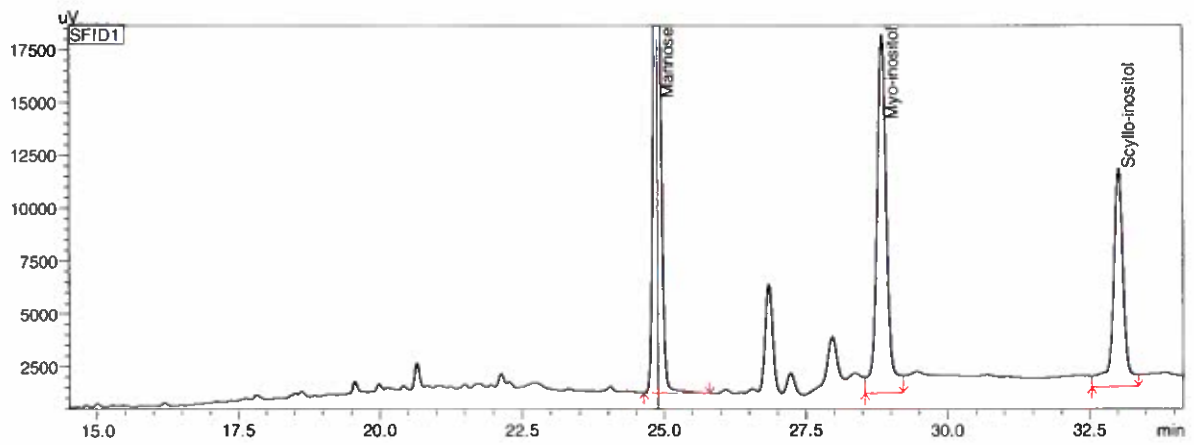
26 x 0.5 mg = 13.0 mg

MALDI-TOF



Analyzed 2.0 ug 21.Rv.07.16.01.PIM_{1,2} with 1.0 ul DHB matrix in reflector positive mode.

GC trace:



Injected 3 ug alditol derivative of 21.Rv.07.16.01.PIM_{1,2} and analyzed against neutral sugar standards.

Dan Collins
(Research Associate) 7/25/21
date

C. McCreary
(Laboratory Supervisor) 7/26/21
date