Certificate of Analysis for NR-14846

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: 64191227 **Manufacturing Date: 27SEP2016**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 16.Rv.9.26.01.$PIM_{1,2}$ is attached.

Support Provided by NIAID

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

WORK SHEET FOR PURIFIED PIM_{1+2}

General Information

BEI Catalog Number: NR-14846
Lot Number: 16.Rv.9.26.01.$PIM_{1,2}$
Fraction Type: phosphatidylinositol mannosides 1,2
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

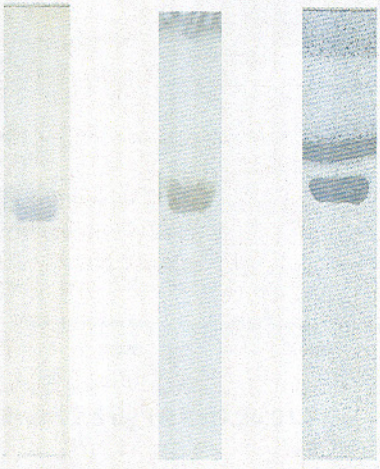
Starting material: 10:10:3 total lipid Starting Material Lot #: 13.Rv.2.5.28.7.WCg.
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP026.2, SPO31b, SPO32, SPO33, SPO37, SPO45.2
Date started: 7/6/16
Date completed: 9/27/16
Notebook; page(s): PIM Notebook I pp 1-21

Quality Control Information:

Total amount of $PIM_{1,2}$: 3.5 mg TLC date: 9/20/16 MALDI-TOF completed: 9/27/16
Date dried on N_2 bath: 9/27/16 TLC solvent system: 60:30:6 chloroform/methanol/water
Notebook and page(s): PIM I pp 22-34

QC TLC:

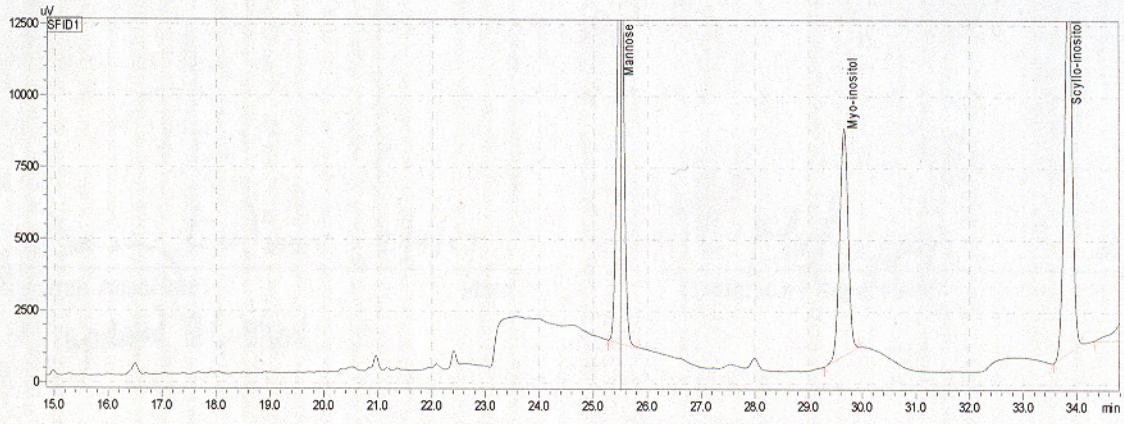
α-naphthol **$CuSO_4$** **Dittmer-Lester**



Aliquot Information:

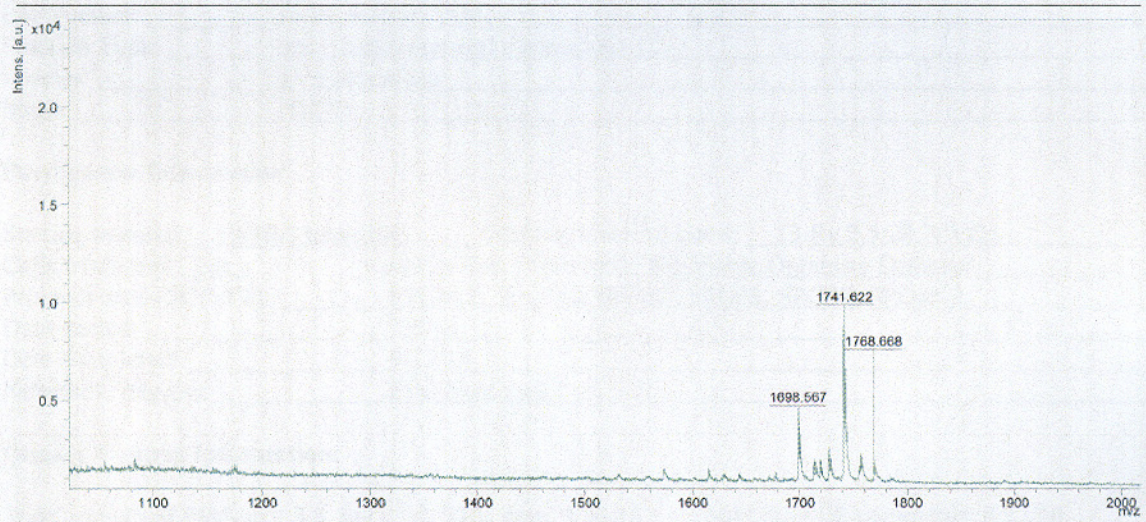
7 x 0.5 mg = **3.5 mg**

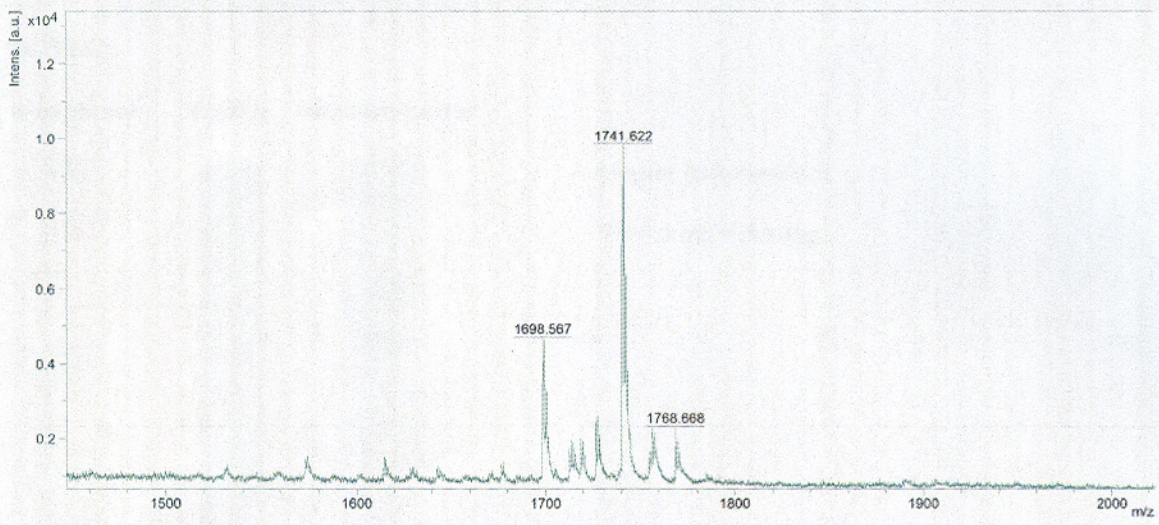
GC trace:



Injected 0.5 µg alditol acetate derivatized 16.Rv.9.26.01.$PIM_{1,2}$.

MALDI-TOF





Analyzed 2.5 ug 16.Rv.9.26.01.$PIM_{1,2}$ with 1.0 ul DHB matrix in positive mode.

Dan Wesson 2/9/17
(Research Associate) date

updated QC sheet

C. Mehaffy 2/9/17
(Laboratory Supervisor) date