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.

Lot: 70017935 **Manufacturing Date: 26AUG2019**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 19.Rv.08.09.02.$PIM_{1,2}$ is attached.

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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 LIPID FRACTION

General Information

BEI Catalog Number: NR-14846
CSU Lot Number: 19.Rv.08.09.02.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 #: 18.Rv.2.5.30.10.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: 6/3/19
Date completed: 8/26/19
Notebook; page(s): PIM Notebook 1 pp 69-80

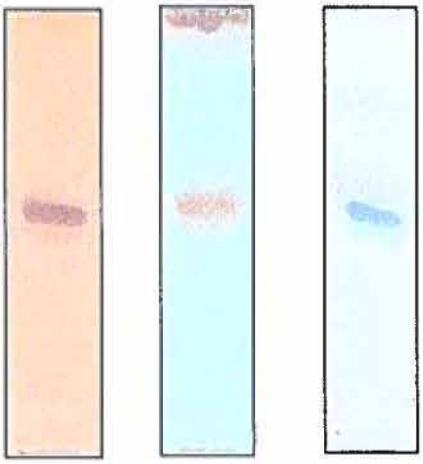
Quality Control Information:

Total amount of PIM$_{1,2}$: 13.5 mg
TLC system: 65/25/4 $CHCl_3/CH_3OH/H_2O$
Date dried on N_2 bath: 8/26/19

MALDI-TOF completed: 8/9/19
TLC date: 8/2/19
Notebook and page(s): PIM I pp 81-103

TLC Analysis:

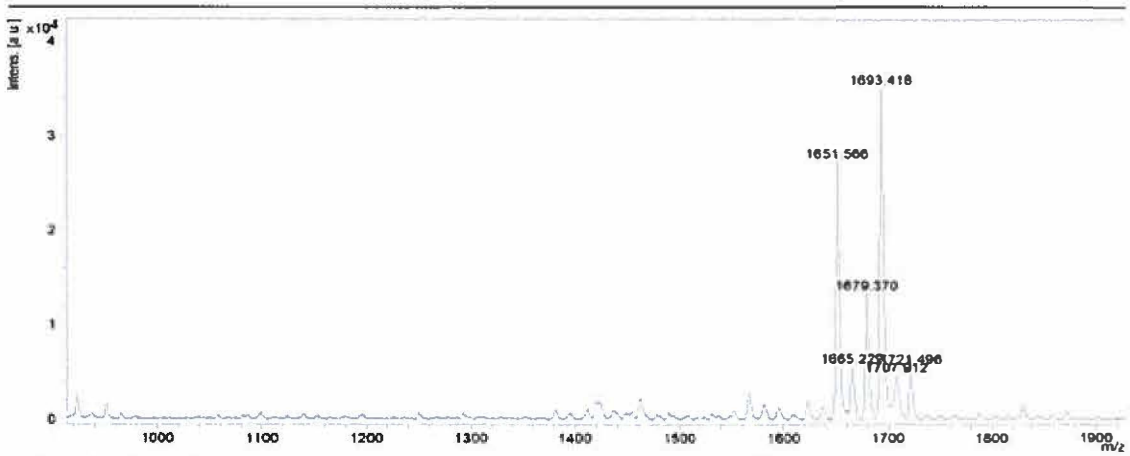
α-naphthol **$CuSO_4$** **Dittmer-Lester**



Aliquot Information:

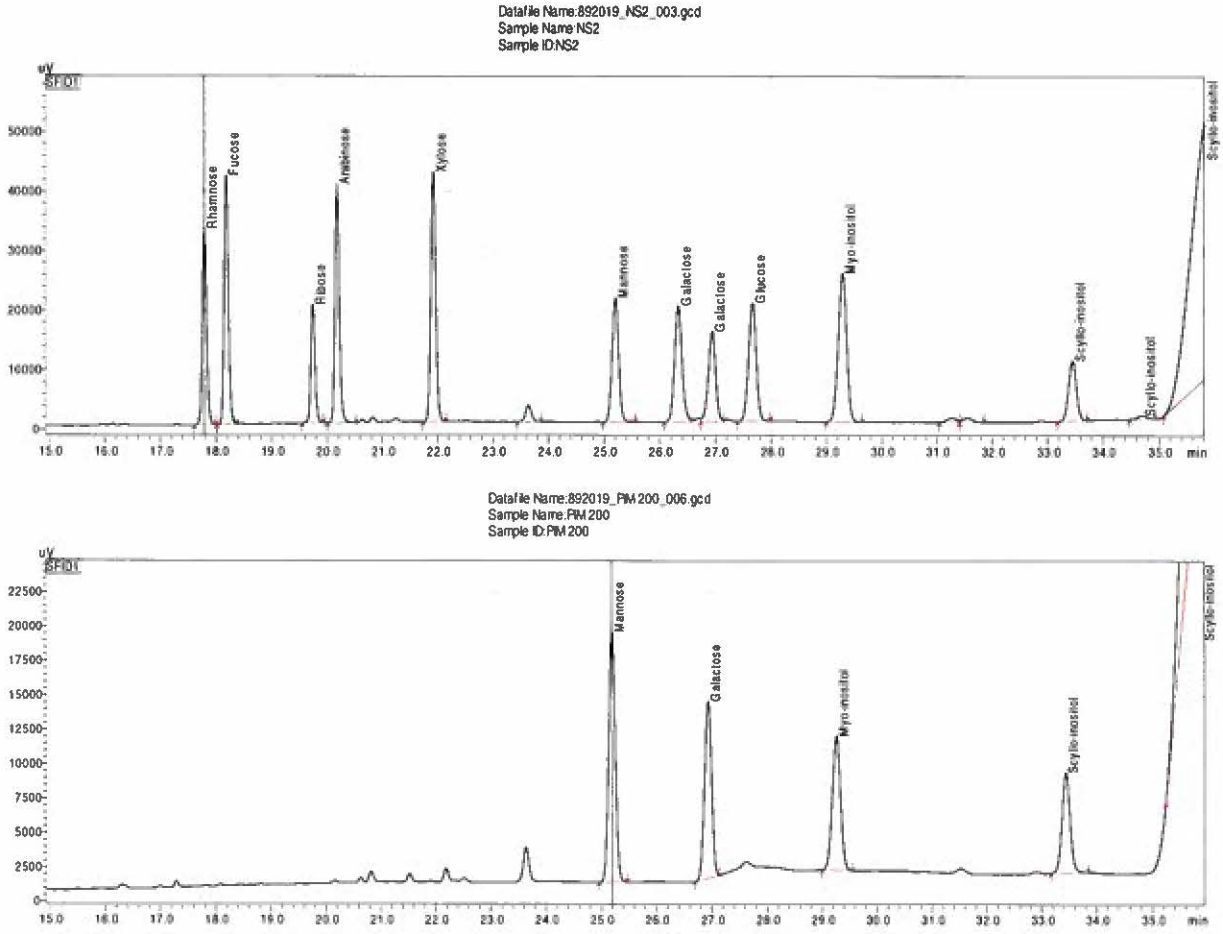
27 x 0.50 mg = 13.5 mg

MALDI-TOF



Analyzed 1.0 ug 19.Rv.08.09.02.PIM$_{1,2}$ with 1.0 ul DHB matrix in negative mode.

GC trace:



Injected 1.2 ug 19.Rv.08.09.02.$PIM_{1,2}$ based on 200 ug PIM derivitized into alditol acetates. Noted presence of extra galactose peak in neutral sugars standard run as well as sample. This is believed to be an artifact of the GC run itself.

8/26/19

(Research Associate) date

8/26/19

(Laboratory Supervisor) date