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: 70037230 **Manufacturing Date: 25NOV2020**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 20.Rv.11.17.01.$PIM_{1,2}$ 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: 20.Rv.11.17.01.$PIM_{1,2}$
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: 10/16/20
Date completed: 11/25/20
Notebook; page(s): Lipids Notebook 9 pp 117-131

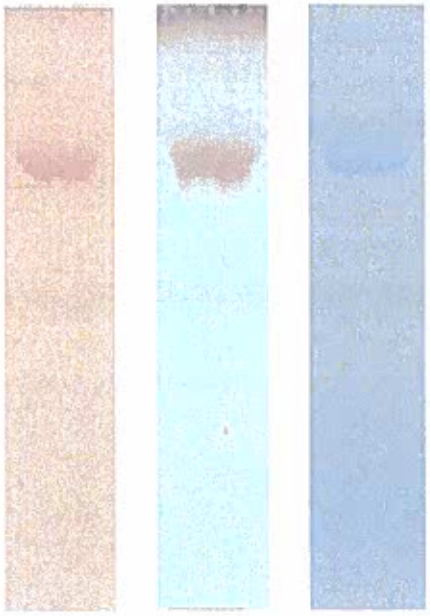
Quality Control Information:

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: 11/25/20

MALDI-TOF completed: 11/17/20
TLC date: 11/16/20
Notebook and page(s): Lipids 9 pp 132-140

TLC Analysis:

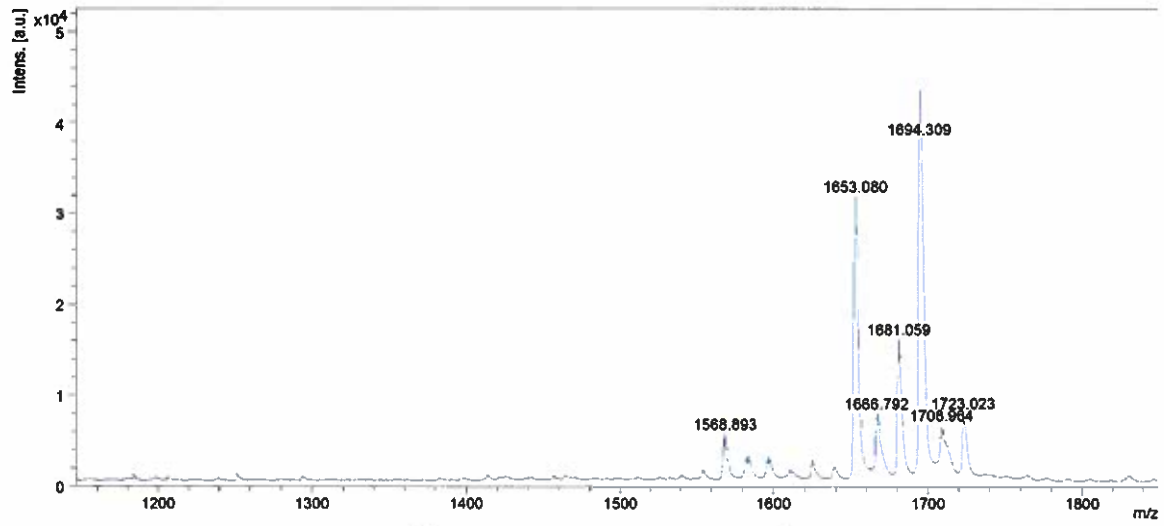
α-naphthol **$CuSO_4$** **Dittmer-Lester**



Aliquot Information:

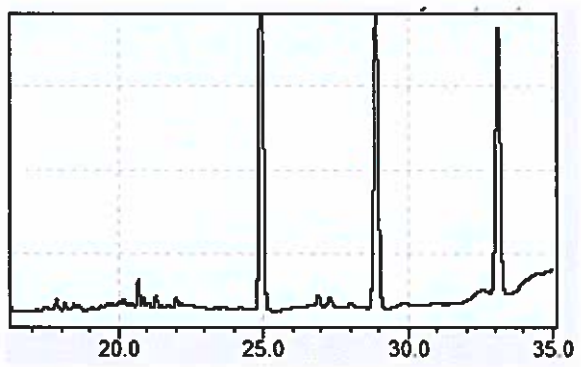
26 x 0.5 mg = 13.0 mg
1 x 0.1 mg = 0.1 mg
13.1 mg

MALDI-TOF



Analyzed 1.0 ug 20.Rv.11.17.01.$PIM_{1,2}$ with 1.0 ul DHB matrix in negative mode.

GC trace:



Injected 1.2 ug $PIM_{1,2}$ based on 200 ug PIM derivitized into alditol acetates.

NS	retention time	
Rhamnose	17.636	min
Fucose	18.024	
Ribose	19.593	
Arabinose	20.027	
Xylose	21.747	
Mannose	24.929	
Galactose	26.025	
Glucose	27.322	
Myo-inositol	28.927	
Scyllo-inositol	33.091	

Mannose	24.942	138503
Myo-inos	28.914	97405
Scyllo-inositol	33.107	88804

11/30/20

(Research Associate) date

12/1/20

(Laboratory Supervisor) date