

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 irradiated 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: 70001798 Manufacturing Date: 27JAN2017

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 17.Rv.1.27.01.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.

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

 BEI Catalog Number:
 NR-14846

 CSU Lot Number:
 17.Rv.1.27.01.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: 12/1/16

Date completed: 1/27/17

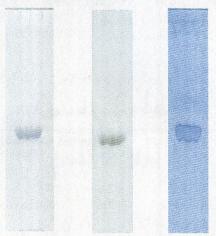
Notebook; page(s): PIM Notebook 1 pp 48-60

Quality Control Information:

Total amount of $PIM_{1,2}$: 14.575 mg MALDI-TOF completed: 1/27/17 TLC date: 1/23/17 Date dried on N_2 bath: 1/27/17 Notebook and page(s): PIM I pp 61-65

TLC Analysis:

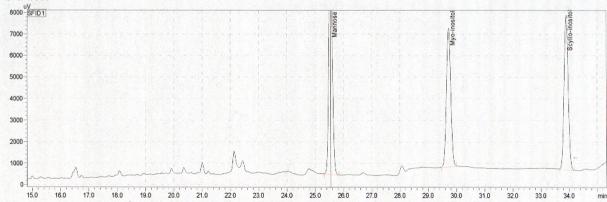
α-naphthol CuSO₄ Dittmer-Lester

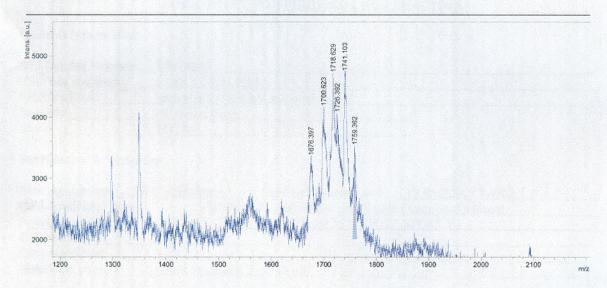


Aliquot Information:

 $\begin{array}{ccc} 29 \text{ x } 0.500 \text{ mg} = 14.500 \text{ mg} \\ 1 \text{ x } 0.075 \text{mg} = & \underline{0.075 \text{ mg}} \\ & & \underline{14.575 \text{ mg}} \end{array}$

GC trace:





Analyzed 1.0 ug 17.Rv.1.27.01.PIM_{1,2} with 1.0 ul DHB matrix in positive mode.

Research Associate) date updated QC sheet