biei resources

SUPPORTING INFECTIOUS DISEASE RESEARCH

Mycobacterium tuberculosis, Strain H37Rv, Purified Phthiocerol Dimycocerosate (PDIM)

Catalog No. NR-20328

This reagent is the tangible property of the U.S. Government.

Product Description: NR-20328 is a preparation of phthiocerol dimycocerosate (PDIM) derived from the total cellular lipids of irradiated *Mycobacterium tuberculosis*, strain H37Rv.

Lot: 70000499

Manufacturing Date: 27JAN2017

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

<u>Note</u>: The label for NR-20328 lot 70000499 should read: "Phthiocerol dimycoserosate, *Mycobacterium tuberculosis*, Strain H37Rv".

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

BEI Catalog Number: _	NR-20328
CSU Lot Number:	17.Rv.1.27.01.PDIM
Fraction Type:	pthiocerol dimycocerosate
Species:	M. tuberculosis
Strain:	H37Rv

Purification Information

Starting material: 10:10:3	TLStarting Material Lot #:14.Rv.2.6.10.4.WCg.b
Cells Irradiated: Yes	Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s):	SP031, SP032, SP033, SP037.1
Date started:	1/4/17
Date completed:	1/27/17
Notebook; page(s):	PDIM Notebook 2 pp 47-50

Additional notes: Lower organic layer of 10:10:3 total lipid was developed on preparative TLC plates with 98/2 petroleum ether/ethyl acetate, then the top three bands were eluted with 2:1 chloroform/ methanol. Lipids were further purified by an additional round of prep plate extractions.

Quality Control Information:

Total amount of PDIM :_	9.475 mg	MALDI-TOF completed:	1/27/17	
TLC date:	1/27/17	Date dried on N_2 bath:	a second s	A. Asta
Notebook and page(s):	PDIM Notebook	A REAL PROPERTY AND A REAL	1941 114	

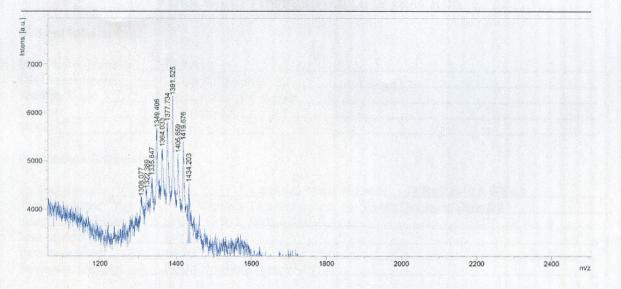
TLC Analysis:

	Loaded 25 ug and ran in dimensions below:
	1^{st} 98/2 petroleum ether/ethyl acetate (x2) 2^{nd} 98/2 petroleum ether/acetone
PC40 Miles	↑ 2 nd

Aliquot Information

 $\begin{array}{l} 0.500 \text{ mg x } 18 = 9.000 \text{ mg} \\ \underline{0.475 \text{ mg x } 1} = 0.475 \text{ mg} \\ 9.475 \text{ mg} \end{array}$

OC MALDI-TOF:



Equal volumes (1 ul) of PDIM at 1.0 mg/ml in 2:1 chloroform/methanol and DHB matrix were mixed, then analyzed in positive electrospray mode.

(Research Associate) updavled QC sheet 2/8/17

date

2/81 17 (Laboratory Supervis date