bei resources

SUPPORTING INFECTIOUS DISEASE RESEARCH

# *Mycobacterium tuberculosis*, Strain H37Rv, Purified Trehalose Monomycolate (TMM)

## Catalog No. NR-48784

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

**Product Description:** NR-48784 is a preparation of purified trehalose monomycolate (TMM) that was extracted from the lipid fraction obtained from irradiated *Mycobacterium tuberculosis*, strain H37Rv cells. Following purification steps, the TMM was dried under nitrogen gas.

## Lot: 64091718

# Manufacturing Date: 30MAY2017

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 17.Rv.5.25.01.TMM is attached.

ATCC<sup>®</sup>, 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<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection. You are authorized to use this product for research use only. It is not intended for human use.



#### WORK SHEET FOR PURIFIED LIPID FRACTION

#### **General Information**

5.

10

BEI Catalog Number:	NR-48784	
CSU Lot Number:	17.Rv.5.25.01.TMM	
Fraction Type:	trehalose monomycolate	
Species:	M. tuberculosis	
Strain:	H37Rv	

### **Purification Information**

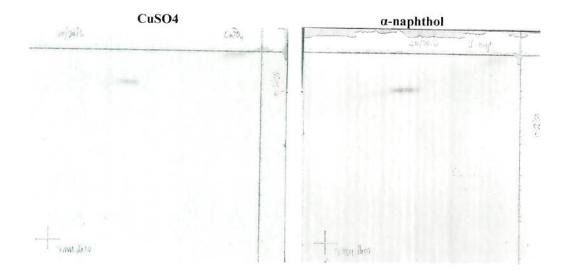
Starting material: 2:1 TL	from H37Rv Starting Material Lot #: 15.Rv.2.11.10.10.WCg.b
Cells Irradiated: Yes	Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s):	PP030.1, SP031, SP032, SP033, SP037, SP046
Date started:	4/26/17
Date completed:	5/30/17
Notebook; page(s):	TDM/TMM/SL Notebook 3 pp 65-78

Additional notes: 2:1 Rv TL was applied to silica gel flash columns, which were washed with chloroform, then an increasing methanol gradient. The 10-20% MeOH in CHCl3 fractions were applied to preparatory TLC plates and resolved with 60/30/6 chloroform/methanol/water. Extracted bands were polished on prep plates with 65/25/4, same solvents.

#### **Quality Control Information:**

Total amount of TMM : 11.3 mg		MALDI-TOF completed: 6/5/17	
TLC date:	5/25/17	Date dried on $N_2$ bath: $5/30/17$	
Notebook and pa	age(s): TDM/TMM/SL Not		

## **TLC Analysis:**



#### TLC solvent system

1st dimension 65/25/4 chloroform/ methanol/ water, left to right;  $2^{nd}$  dimension 60/30/6, same solvents, bottom to top. Loaded 25 µg TMM.

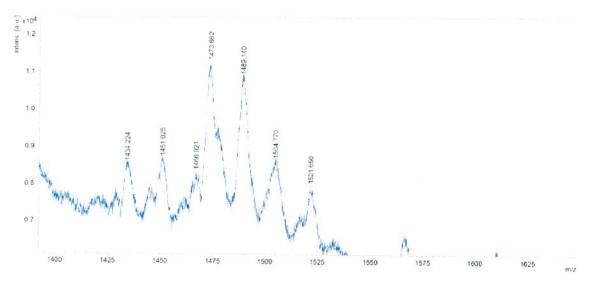
## Aliquot information

14 ۳.

• 2

> $25 \times 0.25 \text{ mg} = 6.25 \text{ mg}$ 1 x 5.05 mg = 5.05 mg11.30 mg

## **MALDI** Analysis



Purified sample (1  $\mu$ l at 2.5  $\mu$ g/ $\mu$ l) was mixed 1:1 with DHB matrix and analyzed in positive mode.

Liteson 615 ľ

(Research Associate)

date

6/5/17 date

(Laboratory Supervisor)