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: 70026908

Manufacturing Date: 27JAN2020

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 20.Rv.01.27.01.TMM is attached.

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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: <u>NR-48784</u> CSU Lot Number: <u>20.Rv.01.27.01.TMM</u> Fraction Type: <u>trehalose monomycolate</u> Species: <u>M. tuberculosis</u> Strain: <u>H37Rv</u>

Purification Information

 Starting material: 10.2g of lyophilized H37Rv cells
 Starting Material Lot #: 18.Rv.2.8.22.10.WCg.a

 Cells Irradiated: Yes______
 Viability Test Performed: No Viable Organism Detected

 Protocol used (SOP #'s): PP030.1. SP031, SP032, SP033, SP037, SP046

 Date started: 9/8/19

 Date completed: 1/27/20

 Notebook; page(s): Lipids 9 pg. 1-18

Additional notes:

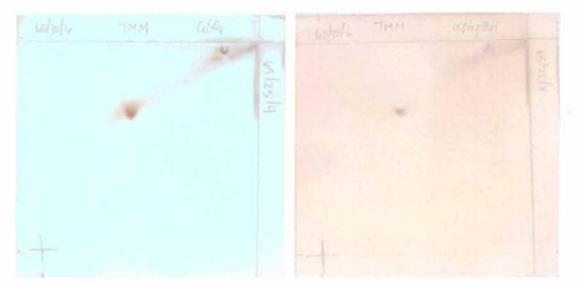
Quality Control Information:

Total amount of TMM: 6.45 mg MALDI-TOF completed: 1/22/20TLC date: 1/27/20 Date dried on N₂ bath: 1/27/20Notebook and page(s): Lipids 9 pg. 22-26

TLC Analysis:

CuSO4

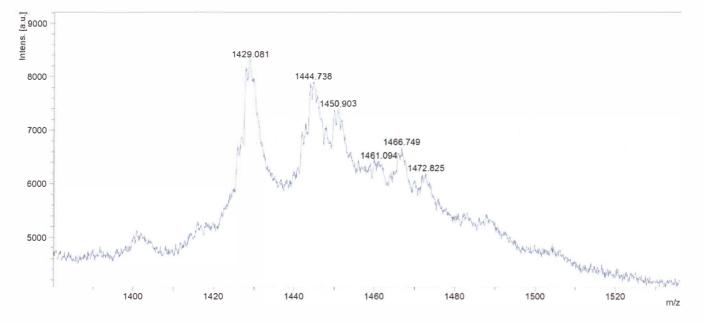
α-naphthol



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.





Purified sample (1-2µg) was mixed 1:1 with DHB matrix and analyzed in positive mode.

Aliquot information

 $25 \times 0.25 \text{ mg} = 6.25 \text{ mg}$ $1 \times 0.20 \text{ mg} = 0.20 \text{ mg}$ 6.45 mg total

1/27/20 date (Research Associate)

020

(Laboratory Supervisor)

date