

Mycobacterium tuberculosis*, Strain H37Rv, Purified Trehalose Monomycolate (TMM)*Catalog No. NR-48784**

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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: 70037236**Manufacturing Date: 12MAR2021**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 21.Rv.02.12.01.TMM is attached.

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WORK SHEET FOR PURIFIED LIPID FRACTION

General Information

BEI Catalog Number: NR-48784
CSU Lot Number: 21.Rv.02.12.01.TMM
Fraction Type: trehalose monomycolate
Species: M. tuberculosis
Strain: H37Rv

Purification Information

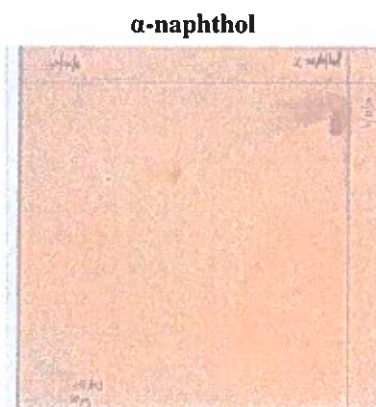
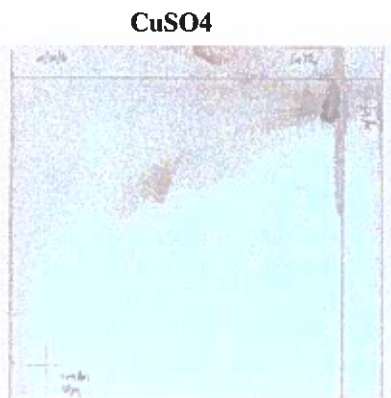
Starting material: 2:1 TL from H37Rv Starting Material Lot #: 17.Rv.2.11.1.11.WCg.a
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected
Protocol used (SOP #'s): PP030.1, SP031, SP032, SP033, SP037, SP046
Date started: 10/16/20
Date completed: 3/12/21
Notebook; page(s): Lipids 9 pp 117-129, 140-150 Lipids 10 pp 1-4

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% MeOH in CHCl₃ fractions were applied to preparatory TLC plates and resolved with 65/25/4 chloroform/methanol/water. Extracted bands were polished on prep plates with 65/25/4, and also with SepPak C18 columns.

Quality Control Information:

Total amount of TMM : 6.15 mg TLC date: 2/12/21
Date dried on N₂ bath: 3/12/21 Notebook: Lipids 10 pp 5-14

TLC Analysis:



TLC solvent system

1st dimension 65/25/4
chloroform/ methanol/ water,
left to right; 2nd dimension
60/30/6, same solvents,
bottom to top. Loaded 50 µg.

Aliquot information

24 x 0.25 mg = 6.00 mg
1 x 0.15 mg = 0.15 mg
6.15 mg

Dan A. Jansen 3/13/21
(Research Associate) date

C. J. Lehaffy 3/21/21
(Laboratory Supervisor) date