

Certificate of Analysis for NR-14844

Mycobacterium tuberculosis, Strain H37Rv, Purified Trehalose Dimycolate (TDM)

Catalog No. NR-14844

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

Product Description:

NR-14844 is a preparation of purified trehalose dimycolate (TDM) that was extracted from the lipid fraction obtained from irradiated *Mycobacterium tuberculosis*, strain H37Rv cells.

Lot: 70045509 Manufacturing Date: 29SEP2021

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 21.Rv.09.28.01.TDM 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 TREHALOSE DIMYCOLATE (TDM)

General Information

 BEI Catalog Number:
 NR-14844

 CSU Lot Number:
 21.Rv.09.28.01.TDM

 Species:
 M. tuberculosis

 Strain:
 H37Rv

Purification Information

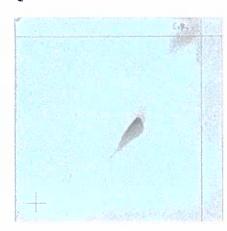
Starting material: 2:1 total lipid Lot number: _ 17.Rv.2.11.1.11.WCg.a Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected Protocol used (SOP #'s): PP029.2, SP031, SP032, SP033, SP037 Date started: _____ 8/30/21 Date completed: ___ 9/29/21 TDM/SL 4 pp 76-88 Notebook; page(s): Additional notes (if applicable): 2:1 total lipid was enriched for TDM through a silica flash column scheme, then isolated by running 12 preparative TLC plates. The crude TDM was cleaned via C18 SepPak columns.

Quality Control Information:

Total amount of TDM: 5.7 mg Date dried on N₂ bath: 9/29/21

TLC date: 9/28/21 Notebook and page(s): TDM/SL 4 pp 89-96

QC TLC:



Developed 50 μ g first dimension (left to right) in 100/14/0.8 chloroform/ methanol/ water; second dimension (bottom to top) in 90/10 chloroform/water.

Stained with CuSO₄ and charring.

Aliquot Information:

 $20 \times 0.25 \text{ mg} = 5.0 \text{ mg}$ $1 \times 0.70 \text{ mg} = 0.7 \text{ mg}$ 5.7 mg

Dan Com 9/29/21

(Laboratory Supervisor)

10.12

(Research Associate)

date

date