

Mycobacterium tuberculosis*, Strain Indo-Oceanic T17X, Total Lipids*Catalog No. NR-44099**

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

Product Description: NR-44099 is a preparation of the total cellular lipids of irradiated *Mycobacterium tuberculosis*, strain Indo-Oceanic T17X, including those with known biological activities, such as trehalose dimycolate (TDM) and sulpholipids.

Lot: 61983707**Manufacturing Date: 07AUG2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 14.IO.5.6.01.TL 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 TOTAL LIPID (TLIP)

General Information

Product Lot Number: 14.IO.5.6.01.TL
Species: M. tuberculosis
Strain: Indo-Oceanic

Purification Information

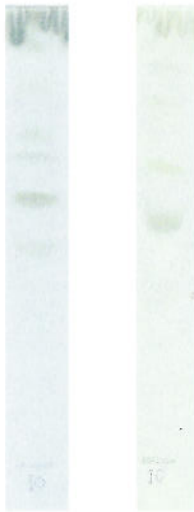
Starting material: gamma-irradiated IO cells Starting Material Lot #: 14.IO.1.7.8.WCg.a
Protocol used (SOP #'s): PP018, SP031, SP033, SP037
Date started: 7/24/14
Date completed: 8/7/14
Notebook; page(s): Total Lipids Notebook 1 pp 22-23

Quality Control Information:

Total volume: 59.57 ml Total amount of TLIP: 595.7 mg
Date dried on N2 bath: 8/7/14
TLC date: 8/6/14 Notebook and page(s): Total Lipids Notebook 1 pp 24-25
TLC Solvent System: 65/25/4 chloroform/methanol/water

QC TLC:

CuSO4 alpha-naphthol



Aliquots:

20 x 5.0 mg = 100.0 mg
9 x 50.0 mg = 450.0
1 x 45.7 mg = 45.7
595.7 mg

Signature of Research Associate, date 8/7/14

Signature of Laboratory Supervisor, date 8/11/14