

Mycobacterium tuberculosis*, Strain H37Rv, Total Lipids*Catalog No. NR-14837**

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Product Description: NR-14837 is a preparation of the total cellular lipids of *Mycobacterium tuberculosis*, strain H37Rv, including those with known biological activities, such as trehalose dimycolate (TDM) and sulfolipids. The culture was grown to late-log phase in glycerol-alanine-salts medium, washed with PBS, inactivated by gamma irradiation and dried. The cellular lipids were extracted with 30 mL of chloroform/methanol (2:1) per gram of cells at 55°C for 18 hours. Cells were removed by filtration and contaminating hydrophilic molecules were removed by biphasic partitioning with water (Folch Wash). The organic phase of the Folch wash was collected and dried.

Lot: 62041990**Manufacturing Date: 18SEP2013**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 13.Rv.9.18.01.TLIP is attached.

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WORK SHEET FOR PURIFIED TOTAL LIPID (TLIP)

General Information

Product Lot Number: 13.Rv.9.18.01.TLIP
Species: M. tuberculosis
Strain: H37Rv

Purification Information

Starting material: γ-irradiated H37Rv cells Starting Material Lot #: 13.Rv.2.6.25.4.WCg
Protocol used (SOP #'s): PP018, SP031, SP033
Date started: 8/30/13
Date completed: 9/18/13
Notebook; page(s): Total Lipids Notebook 1 pp 1-7
Additional notes (if applicable): Starting wet weight 32.1 g cells, 3.89 g lyophilized

Quality Control Information:

Total volume: 150.0 ml Total amount of TLIP: 300.0 mg
Date dried on N₂ bath: 9/23/13
TLC date: 9/18/13 Notebook and page(s): Total Lipids Notebook 1 p 8
TLC Solvent System: 65/25/4 chloroform/methanol/water

QC TLC:

α-naphthol

CuSO₄

Aliquot information $50 \times 5.0 \text{ mg} = 250.0 \text{ mg}$
 $5 \times 10.0 = 50.0$
300.0 mg



Danny C. Jensen 9/23/13
(Research Associate) date

[Signature] 9/23/2013
(Laboratory Supervisor) date