

***Mycobacterium tuberculosis*, Strain H37Rv, Mycobactin****Catalog No. NR-44101**

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

**Product Description:**

NR-44101 is a preparation of mycobactin derived from irradiated *Mycobacterium tuberculosis*, strain H37Rv.

**Lot: 70034345****Manufacturing Date: 16JUN2020**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 20.Rv.06.15.01.MBT is attached.

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## WORK SHEET FOR MYCOBACTIN

### General Information

BEI Catalog Number: NR-44101  
CSU Lot Number: 20.Rv.06.15.01.MBT  
Fraction Type: mycobactin  
Species: *M. tuberculosis*  
Strain: H37Rv

### Purification Information

Starting material: 2:1 total lipid Starting Material Lot #: 18.Rv.2.5.30.10.WCg  
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected  
Protocol used (SOP #'s): PP018.1, PP032.2, SP004, SP005, SP031b, SP032, SP033  
Date started: 1/30/2020  
Date completed: 6/16/2020  
Notebook; page(s): Mycobactin Notebook 3 pp 43-52

Additional notes (if applicable): 2:1 total lipid was enriched for mycobactin on silica gel columns by eluting with 2% MeOH in CHCl<sub>3</sub>. These fractions were developed on preparative TLC plates with 95/5 chloroform/ methanol, and the visible mycobactin-bearing silica scraped. Subsequent clean-up was performed by developing crude extracts in preparative TLC plates with 2/3/3 petroleum ether/ n-butanol/ ethyl acetate.

### Quality Control Information:

Total amount of mycobactin: 1.1 mg Date dried on N<sub>2</sub> bath: 6/16/20  
TLC date: 6/11/2020 Notebook and page(s): Mycobactin 3 pp 53-57  
TLC Solvent System: 95/5 chloroform/methanol

### QC TLC:

unstained    CuSO<sub>4</sub>

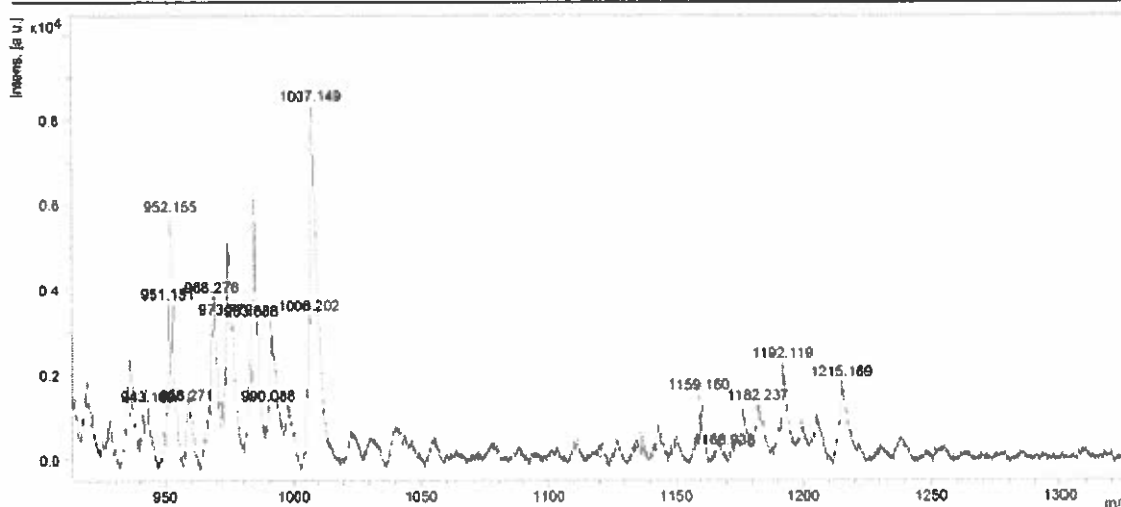


### Aliquot Information:

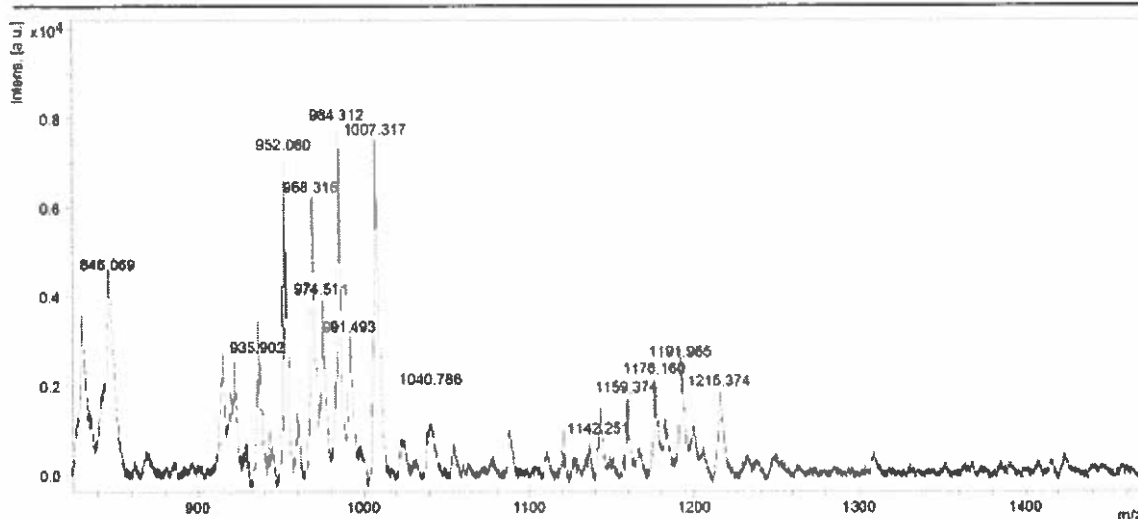
11 x 100 µg = 1.1 mg

Loaded 50 µg, developed in solvent system described above, and stained one with CuSO<sub>4</sub> and charring.

# MALDI-TOF:



Previous lot 15.Rv.11.13.1.MBT used as a control. Applied at  $1 \mu\text{g}/\mu\text{l}$  with DHB matrix 1:1 and analyzed in negative mode, above.



Mixed 20.Rv.06.15.01.MBT at  $1 \mu\text{g}/\mu\text{l}$  1:1 with DHB as above, analyzed with same program.

*Dan C. Derra* 6/25/20  
(Research Associate) date

*C. McChesney* 7/2/20  
(Laboratory Supervisor) date