

Mycobacterium tuberculosis*, Strain H37Rv, Purified Sulfolipid-1*Catalog No. NR-14845**

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Product Description: NR-14845 is a preparation of purified sulfolipid-1 (SL-1) that was extracted from irradiated *Mycobacterium tuberculosis*, strain H37Rv cells with chloroform/methanol (2:1) and purified on a silica gel column. The loaded column was washed with chloroform and the SL-1 fraction was eluted with 5% methanol in chloroform. The SL-1 fraction was further purified on a C18 reverse phase Sep Pak filter which was washed with 60% chloroform in methanol to remove the trehalose dimycolate fraction followed by elution of the purified SL-1 with 25% chloroform in methanol.

Lot: 62575032**Manufacturing Date: 25JUL2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 14.Rv.7.23.02.SL is attached.

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WORK SHEET FOR PURIFIED SL-I

General Information

Lot Number: 14.Rv.7.23.02.SL
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: 2:1 CHCl₃/CH₃OH-extracted total lipid May 2014
Lot number: Whole Cells 13.Rv.2.3.19.8.WCg
Protocol used (SOP #'s): PP034, SP031, SP032, SP033, SP037
Date started: 5/28/14
Date completed: 7/25/14
Notebook; page(s): TDM & SL Notebook 2 pp 79-87

Additional notes: Preparatory TLC plates were loaded with 2:1 total lipid and developed with 100/14/0.8 chloroform/methanol/water. SL-bearing silica was extracted with 2:1 chloroform/ methanol, and a final clean-up with C18 columns was employed.

Quality Control Information

Total volume: 0.64 ml Total amount of SL-I: 1.6 mg Date dried on N₂ bath: 7/25/14
Notebook and page(s): TDM & SL Notebook 2 pp 88-92 TLC date: 7/11/14 MALDI-TOF date: 7/23/14

QC TLC

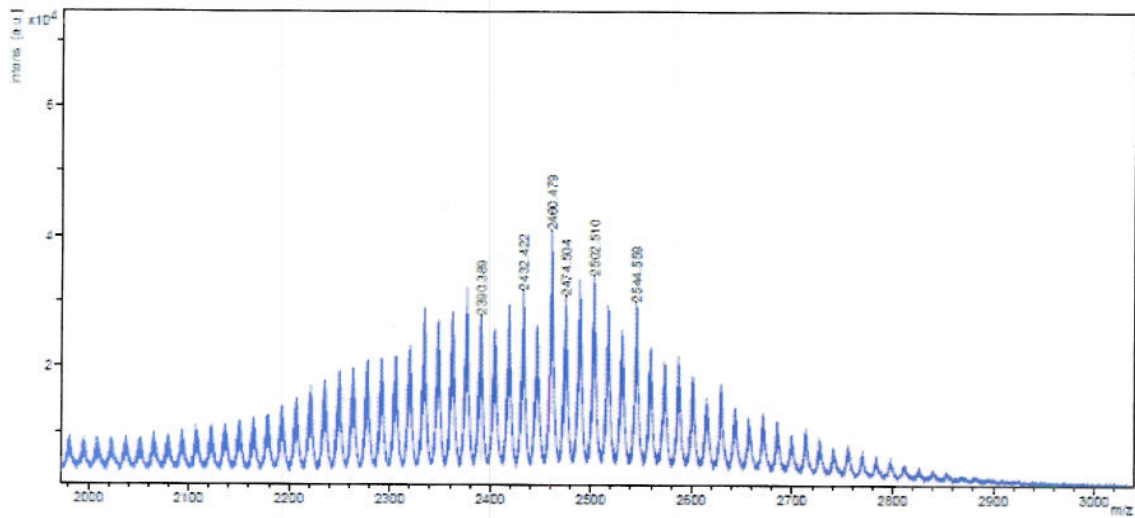


Ran 20 µg SL. 1st dimension 100/14/0.8
CHCl₃/CH₃OH/H₂O (left→right), 2nd dimension 80/20/2
CHCl₃/CH₃OH/H₂O (bottom→top), stained with α-naphthol.

Aliquot Information

6 x 0.25 mg = 1.5 mg
1 x 0.10 mg = 0.1 mg
1.6 mg

MALDI-TOF



Mixed 1.0 μ l (2.5 ug) sulfolipid sample in 2:1 $\text{CHCl}_3/\text{CH}_3\text{OH}$ with 1.0 μ l DHAB matrix, and analyzed in negative electrospray mode with TFA.

Dany Wasser 7/25/14
(Research Associate) date

[Signature] 7/25/2014
(Laboratory Supervisor) date