

***Mycobacterium tuberculosis*, Strain H37Rv, Purified Mycolic Acid Methyl Esters****Catalog No. NR-14854**

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**Product Description:**

NR-14854 contains a preparation of mycolic acid methyl esters (MAME) that were purified from the mycolyl-arabinogalactan peptidoglycan (mAGP) complex of *Mycobacterium tuberculosis*. mAGP was subjected to alkaline hydrolysis and the mycolic acids were collected and neutralized. Chloroform and water are added to the mycolic acid suspension to form a biphasic partition, and the organic fraction containing mycolic acid is collected and dried.

**Lot: 70029297****Manufacturing Date: 03OCT2019**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 19.Rv.10.3.01.MAME is attached.

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WORK SHEET FOR PURIFIED MYCOLIC ACID METHYL ESTERS (MAME)

General Information

Lot Number: 19.Rv.10.3.01.MAME  
Species: M. tuberculosis  
Strain: H37Rv

Purification Information

Starting material: 13.Rv.05.14.01.mAGP 337.5 mg  
Cells Irradiated: Yes Viability Test Performed: No Viable Organism Detected  
Protocol used (SOP #'s): PP014, SP031, SP033  
Date started: 9/24/19  
Date completed: 10/3/19  
Notebook; page(s): Native Cell Wall Materials II p 76

Quality Control Information:

Total amount of MAME: 68.1 mg TLC date: 10/3/19 Notebook and page(s): NCWM II p77  
TLC solvent system: 95/5 petroleum ether/ ethyl ether x6

QC TLC:



Applied 50  $\mu$ g 19.Rv.10.3.01.MAME and developed in TLC system above. Stained with  $\text{CuSO}_4$  charring.

Aliquot Information:

50 x 1.0 mg = 50.0 mg  
1 x 18.1 mg = 18.1 mg  
**68.1 mg**

Dan W. Johnson 10/11/19  
(Research Associate) date

C. McKepp 10/14/19  
(Laboratory Supervisor) date