

Mycobacterium tuberculosis*, Strain H37Rv, Purified Peptidoglycan*Catalog No. NR-14853**

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Product Description:

NR-14853 is a preparation of peptidoglycan (PG) derived from the cell wall of *Mycobacterium tuberculosis*, strain H37Rv.

Lot: 70072665**Manufacturing Date: 05MAY2025**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 25.Rv.14.4.25.PG is attached.

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WORK SHEET FOR PURIFIED PEPTIDOGLYCAN (PG)

General Information

BEI Catalog Number: NR-14853
CSU Lot Number: 25.Rv.14.4.25.PG
Species: *M. tuberculosis*
Strain: H37Rv

Purification Information

Starting material: AGP from tubes 1(173 mg), 2 (69 mg), and 3 (285 mg) obtained with PP014 (LNieto NB #1 page 81).

Cells Irradiated: Yes

Viability Test Performed: No Viable Organism Detected

Protocol used (SOP #'s): PP013.2 was followed using AGP derived after Mycolic acid methyl ester preparation (with 15% TBHA). A minor modification was performed, incubating the acid hydrolysis with 0.05M H₂SO₄ at room temperature for 4 days.

Date started: 04/04/2025

Date completed: 05/05/2025

Notebook; page(s): LNieto NB #1 pages 84-99

Additional notes (if applicable): A second hydrolysis step was performed to remove contaminating arabinose and galactose. For tube 1, hydrolysis was done with 0.25 M H₂SO₄ at 37 °C for 4 days. Tubes 2 and 3 were treated with 0.05 M H₂SO₄ under the same conditions. The three tubes were processed separately, analyzed for residual sugars by GC, and then combined for TLC analysis and final aliquoting.

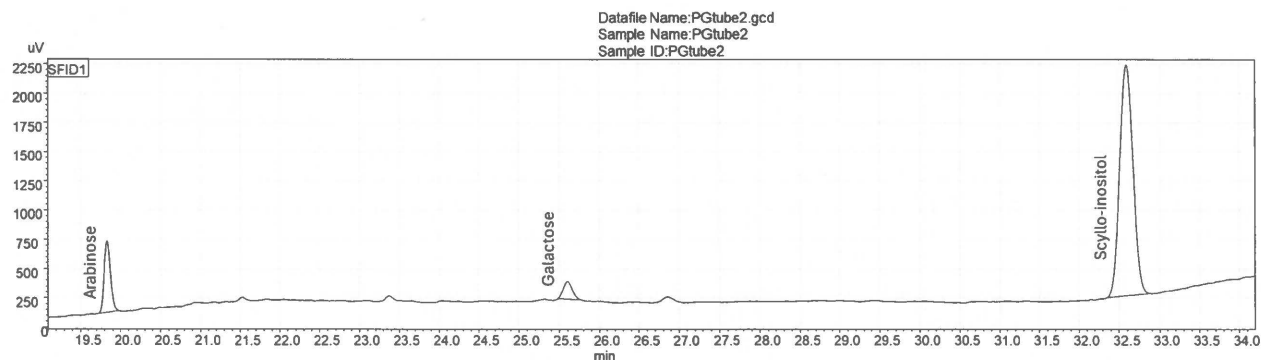
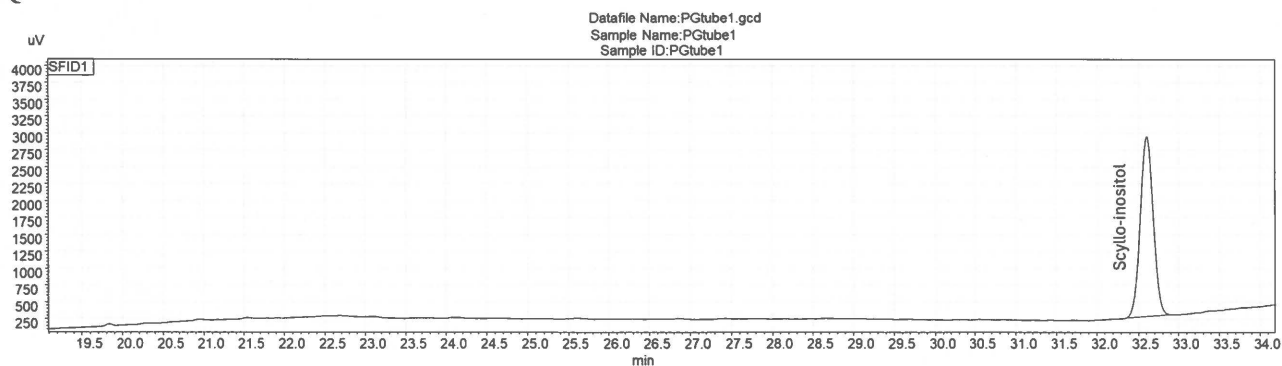
Quality Control Information:

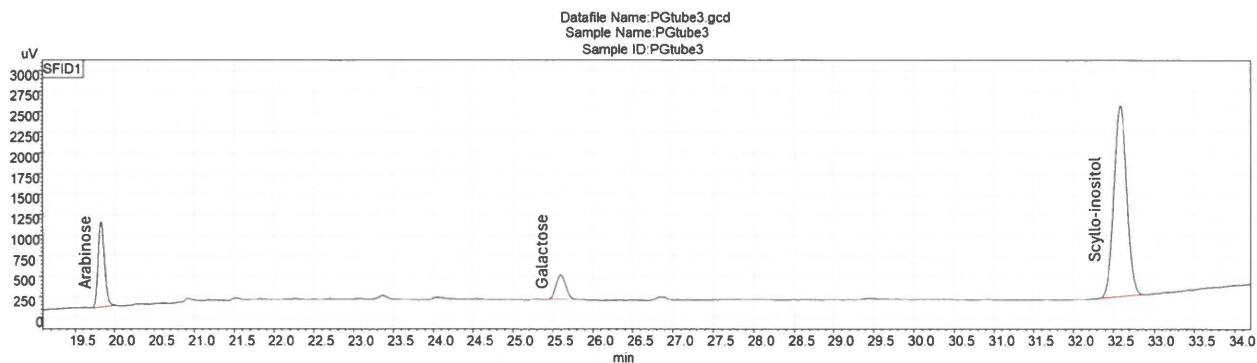
Total volume: 5 mL Total amount of PG: 7.0 mg

Date dried on N₂ bath: 05/05/2025

GC date: 04/23/2025 Notebook and page(s): LNieto NB #1 page 95-96

QC GC:

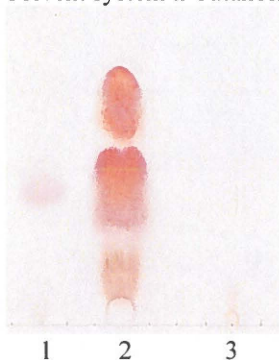




None to minor traces of AG detected in the different tubes mixed.

TLC after combining all tubes:

Solvent system n-butanol: Glacial Acetic acid: water (3:1:1), sprayed with 0.3% Ninhydrin.



1. Peptidoglycan 25.Rv.14.4.25.PG (50 ug)
2. Reference 17-Aminoacid mixture (~25 ug each)
3. Diaminopimelic acid (25 ug)

Aliquot Information:

14 x 0.5 mg = 7.0 mg total

Luisa afina Nieto 07/02/2025
(Research Scientist) date

[Signature] 7/8/25
(Laboratory Supervisor) date