

***Mycobacterium tuberculosis*, Strain H37Rv, Purified Peptidoglycan**

**Catalog No. NR-14853**

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

**Product Description:** NR-14853 is a preparation of the peptidoglycan derived from the cell wall of *Mycobacterium tuberculosis*, strain H37Rv.

**Lot: 61535057**

**Manufacturing Date: 30JAN2013**

Production and QC testing were performed by Colorado State University (CSU). CSU documentation for lot 13.Rv.1.4.13.01.PG is attached.

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## WORK SHEET FOR PURIFIED PEPTIDOGLYCAN (PG)

### General Information

Lot Number: 13.Rv.1.4.13.01.PG  
 Species: M. tuberculosis  
 Strain: H37Rv

### Purification Information

Starting material: mAGP lot 60589463  
 Protocol used (SOP #'s): SP005, SP022, SP031, SP045a, SP047, PP013.1, PP014  
 Date started: 1/4/13  
 Date completed: 1/30/13  
 Notebook; page(s): Native Cell Wall Materials dh2 pp 36-38

Additional notes: Performed one round of hydrolysis with 0.10 M H<sub>2</sub>SO<sub>4</sub>. Amino acid analysis was performed by University of Nebraska Medical Center.

### Quality Control Information:

Total volume: 10 ml Total amount of PG: 104.2 mg  
 Date dried on savant: 1/30/13 GC date: 1/18/13  
 Notebook and page(s): Native Cell Wall Materials dh2 pp 36-38

Aliquot Information: 120 x 0.5 mg = 60.0 mg  
1 x 44.2 mg = 44.2 mg  
104.2 mg

### Amino Acid Composition

Amino Acid Analysis Report  
 Protein Structure Core Facility  
 UNMC

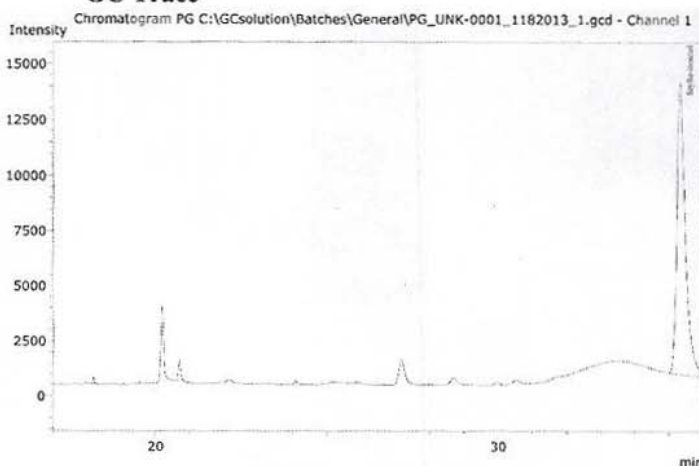
Sample Identification: PG th 122.13 (A)  
 PSCF Sample Code: mmys007  
 Molecular Weight Protein: 10,000

Amino Acid	Amount of Protein		Composition	
	Picomoles Amino Acid	Nanograms Amino Acid	Mole of AA per Mole of Protein	% of each AA in Protein
asx	0.000	0.00	0.00	0.00
thr	85.283	8.62	4.74	4.79
ser	55.845	4.86	3.10	2.70
gls	513.977	66.35	28.50	30.88
gly	0.000	0.00	0.00	0.00
ala	334.727	29.89	10.00	13.23
cys**	0.000	0.00	0.00	0.00
val	0.000	0.00	0.00	0.00
DAP	220.933	42.02	12.28	23.35
met	0.000	0.00	0.00	0.00
ile	0.000	0.00	0.00	0.00
leu	27.516	3.11	1.53	1.73
nie	0.000	0.00	0.00	0.00
try	29.274	4.78	1.63	2.86
phe	56.982	8.38	3.17	4.66
tyr	0.000	0.00	0.00	0.00
NH <sub>2</sub>	0.000	0.00	0.00	0.00
his	0.000	0.00	0.00	0.00
arg	0.000	0.00	0.00	0.00
proline	0.00	0.02	0.00	0.00
<b>Sum</b>		<b>161.9383</b>	<b>73.61</b>	<b>90</b>

Micrograms Protein: 0.1799  
 Picomoles Protein: 17.99

Comment: 5.00 microliters used for hydrolysis  
0.04 micromoles/microliter

### GC Trace



Quantitative Results - Channel 1

Name	Ret. Time	Conc.	Units	Area
Rhamnose	0.00	0.000	ug/uL	0
Fucose	0.00	0.000	ug/uL	0
Ribose	0.00	0.000	ug/uL	0
Arabinose	0.00	0.000	ug/uL	0
Xylose	0.00	0.000	ug/uL	0
Mannose	0.00	0.000	ug/uL	0
Galactose	0.00	0.000	ug/uL	0
Glucose	0.00	0.000	ug/uL	0
Myo-inositol	0.00	0.000	ug/uL	0
Scyllo-inositol	35.35	29.707	ug/uL	232038

[Signature]  
 (Research Associate) [Signature]  
 date 1/30/13

[Signature]  
 (Laboratory Supervisor) [Signature]  
 date 1/30/2013