

***Mycobacterium tuberculosis*, Strain HN878, Gamma-Irradiated Whole Cells****Catalog No. NR-49100**

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**Product Description:** *Mycobacterium tuberculosis* (*M. tuberculosis*), strain HN878 was grown to late-log phase in glycerol-alanine-salts medium and inactivated by exposure to 2.4 mRads of ionizing gamma irradiation using a <sup>137</sup>Cs source. Confirmation of inactivation was performed by Alamar Blue assay. A dose of 2.4 mRads of gamma irradiation kills *M. tuberculosis* to a 10<sup>20</sup> degree of certainty while maintaining 93% to 95% of the biological activity of the enzymes.

**Lot: 70005745****Manufacturing Date: 13JUL2017**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 17.HN878.5.24.9.WCg.b is attached. Each vial contains 1 g *M. tuberculosis*, strain HN878 gamma-irradiated whole cells.

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WORK SHEET FOR  $\gamma$ -IRRADIATED CELLS

General Information

Lot Number: 17.HN878.5.24.9.WCg.b  
Species: M. tuberculosis  
Strain: HN878

Growth Conditions: Medium: GAS  
# of Fernbachs: 16 # of Roller bottles: 0  
Inoculation Date: 5.24.17 Harvest Date: 6.7.17  
SOP # used for Harvest: PP003.3

Wet Weight: 65.2g

Date irradiated: 7.13.17 By: AS

Alamar Blue QC Information

Date Started: 7.10.17 Date Checked: 7.12.17

Positive Control: Positive X Negative       

Sample: Positive        Negative X

Aliquot Information

1 x 65.2g in 230ml falcon tube

[Signature] 7.14.17  
(Research Associate) (date)

C. Phelan 7-18-17  
(Laboratory Supervisor) (date)

raw	7-10-17.	Initial 0 hr 570/600
	0.76	0.71
17.HN878.5.24.9.WCg.b	0.76	0.71
	0.76	0.71
	0.75	0.72
	0.72	0.71

Initial Minus Blank			
OD .1	OD .01	OD .001	OD.0001
0.05	0.00	-0.01	-0.01
0.05	0.00	0.00	-0.01
0.05	0.00	0.00	-0.01
0.04	0.01	0.01	0.00

Initial Average			
OD .1	OD .01	OD .001	OD.0001
0.05	0.00	0.00	-0.01
0.04	0.01	0.01	0.00

Sample .1	Sample .01	Pos .1	Pos .01
0	0.05	0.00	0.04
24	0.07	0.00	2.53
48	0.09	0.00	2.14

24hr 570/600			
7-11-17.	0.83	0.76	0.75
	0.83	0.76	0.75
	0.83	0.76	0.75
	3.29	0.94	0.77
		0.77	0.76

24hr Minus Blank			
OD .1	OD .01	OD .001	OD.0001
0.07	0.00	-0.01	-0.01
0.07	0.00	-0.01	-0.01
0.07	0.00	-0.01	-0.01
2.53	0.18	0.01	0.00

24hr Average			
OD .1	OD .01	OD .001	OD.0001
0.07	0.00	-0.01	-0.01
2.53	0.18	0.01	0.00

48 hr 570/600			
7-12-17.	0.86	0.78	0.77
	0.86	0.78	0.77
	0.86	0.78	0.77
	2.92	1.16	0.80
		0.80	0.78

48hr Minus Blank			
OD .1	OD .01	OD .001	OD.0001
0.09	0.00	-0.01	-0.01
0.09	0.00	0.00	-0.01
0.09	0.00	0.00	-0.01
2.14	0.39	0.02	0.00

48hr Average			
OD .1	OD .01	OD .001	OD.0001
0.09	0.00	0.00	-0.01
2.14	0.39	0.02	0.00

### 570/600 vs Time

