SUPPORTING INFECTIOUS DISEASE RESEARCH

## Mycobacterium tuberculosis, Strain HN878, Gamma-Irradiated Whole Cells

### Catalog No. NR-14821

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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: 62325994

# Manufacturing Date: 15NOV2013

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 13.HN878.10.15.9.WCg.a is attached.

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## WORK SHEET FOR **γ-IRRADIATED CELLS**

**General Information** 

Lot Number: <u>13.HN878.10.15.9.WCg.a</u> Species: <u>M. tuberculosis</u> Strain: <u>HN878</u>

Growth Conditions: Medium: GAS # of Fernbachs: 16 # of Roller bottles: 0 Inoculation Date: 10.15.13 Harvest Date: 10.29.13 SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 89.8g

Date irradiated: 11.15.13 By: IC

Alamar Blue QC Information

Date Started: 12.4.13 Date Checked: 12.6.13

Positive Control: Positive X Negative

OD =.1 change: 0.0094

Sample: Positive \_\_\_\_ Negative X

OD=.1 change: 0.0002 Aliquot Information 1 x 89.8g in 230ml falcon tube

12.9-13

(Research Associate)

(date)

12

(Laboratory Supervisor)

(date)

Initial 0 hr 570/600 raw 12-4-13. 0.83 0.75 0.77 1.01 13.HNB78.10.15.9 WCg.a 0.82 0.91 0.84 0.82 0.81 0.92 0.86 0.85 0.79 0.90 0.82 0.59

	VIIDIO CONTANTION DIGITI			
	0D.1	0D.01	00.001	0D.0001
	0.01	-0.07	-0.05	0.18
Sample	00.00	0.08	0.01	00.0
	-0.01	0.10	0.03	0.03
Pos. Cont.	-0.04	0.08	-0.01	-0.25

	Initi	Initial Average		
	0D.1	10. OO	0D.001	OD.001
Sample	0.00	0.03	0.00	0.07
Pos. Ctrl.	-0.04	0.08	-0.01	-0.25

	Sample .1	Sample .01 Pos .	Pos.1	Pos .01
0	00.00	0.03	-0.04	0.08
24	-0.06	-0.15	0.57	0.07
48	00.0	-0.01	0.41	0.10

	24hr 5/0/600	600		
12-5-13.	0.76	0.63	0.67	0.72
1	0.75	0.68	0.67	0.74
N.	0.73	0.67	0.66	0.72
	1.37	0.88	0.91	111

00.00	0D.1         0D.01         0D.001         0D.001         0D.01           -0.05         -0.17         -0.13         -0.13           -0.06         -0.12         -0.14         -0.14           -0.07         -0.14         -0.15         -0.15           -0.07         -0.14         -0.15         -0.15           -0.07         -0.14         -0.15         -0.15		111-7	VIIDIO CONTAL TITLE	4	
-0.05 -0.17 -0.13 -0.06 -0.12 -0.14 -0.07 -0.15 0.57 0.07 0.10	-0.05 -0.17 -0.13 -0.06 -0.12 -0.14 -0.07 -0.14 -0.15 -0.57 0.07 0.10		0D.1	0D .01	0D.001	OD.0001
-0.06 -0.12 -0.14 -0.07 -0.14 -0.15 0.57 0.07 0.10	0.006 -0.12 -0.14 -0.07 -0.14 -0.15 0.57 0.07 0.10		-0.05	-0.17	-0.13	-0.08
-0.07 -0.14 -0.15 0.57 0.07 0.10	-0.07 -0.14 -0.15 0.57 0.07 0.10	Sample	-0.06	-0.12	-0.14	-0.07
0.57 0.07 0.10	0.57 0.07 0.10		-0.07	-0.14	-0.15	-0.09
		Pos. Cont.	0.57	0.07	0.10	0.30

	48 hr 570/600	600		
12-6-13.	0.93	0.93	0.92	0.96
-	0.93	0.93	0.92	0.94
194	0.93	0.89	0.89	06.0
	1.34	1.03	0.93	0.95

			×	
	0D.1	10. OO	00.001	OD.0001
	0.01	00.00	00.0	0.04
Sample	0.01	00.00	-0.01	0.01
	0,00	-0.04	-0.04	-0.03
Pos. Cont.	0.41	0.10	0.01	0.03

].	48	1 0.10 48hr Average	0.01	0.03
Las	0D.1	0D .01	0D .001	OD.0001
Sample	00.00	-0.01	-0.02	0.01
Pos. Ctrl.	0.41	0.10	0.01	0.03

 OD.01
 OD.001
 OD.001
 OD.0001

 -0.15
 -0.14
 -0.08

 0.07
 0.10
 0.30

0D.1 -0.06 0.57

> Sample Pos. Ctrl.

