

Mycobacterium tuberculosis*, Strain HN878, Gamma-Irradiated Whole Cells*Catalog No. NR-14821**

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

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 ¹³⁷Cs source. Confirmation of inactivation was performed by Alamar blue Assay. A dose of 2.4 mRads of gamma irradiation kills *M. tuberculosis* to a 10²⁰ degree of certainty while maintaining 93% to 95% of the biological activity of the enzymes.

Lot: 61259624**Manufacturing Date: 09JUN2012**

QC testing was performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH). The Colorado State University documentation for bulk lot 12.HN878.4.30.7.WCg is attached.

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You are authorized to use this product for research use only. It is not intended for human use.



WORK SHEET FOR γ -IRRADIATED CELLS

General Information

Lot Number: 12.HN878.4.30.7.WCg

Species: M. tuberculosis

Strain: HN878

Growth Conditions: Medium: GAS
of Fernbachs: 8 # of Roller bottles: 0
Inoculation Date: 4.30.12 Harvest Date: 5.14.12
SOP # used for Harvest: PP003.5/9/08 version

Wet Weight: 86.9g

Date irradiated: 6.9.12 By: LIU

Alamar Blue QC Information

Date Started: 11.13.12 Date Checked: 11.15.12

Positive Control: Positive X Negative

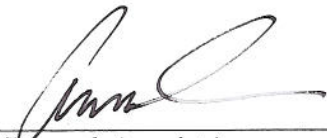
OD =.1 change: 0.0555

Sample: Positive Negative X

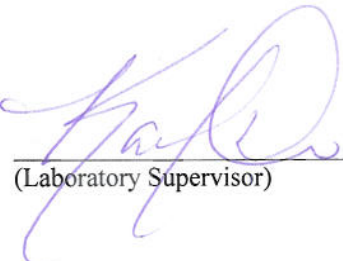
OD=.1 change: 0.0029

Aliquot Information

1 x 86.9 g in 230ml falcon tube



(Research Associate) 11-26-12 (date)



(Laboratory Supervisor) 11/26/2012 (date)

Initial 0 hr 570/600					
RAW	11/13/2012	0.72	0.71	0.70	0.69
	12:HN8/8.4.30.7.WCG	0.73	0.70	0.70	0.69
		0.73	0.70	0.69	0.70
		0.77	0.74	0.73	0.73

24hr 570/600					
	11/14/2012	0.77	0.73	0.72	0.72
		0.85	0.73	0.72	0.72
		0.82	0.73	0.72	0.72
		1.48	0.80	0.73	0.72

48 hr 570/600					
	11/15/2012	0.84	0.75	0.75	0.73
		0.94	0.76	0.74	0.74
		0.91	0.77	0.75	0.75
		3.46	1.00	0.79	0.77

Initial Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.01	0.00	-0.01	-0.02
	0.02	-0.01	-0.01	-0.02
	0.01	-0.01	-0.02	-0.01
Pos. Cont.	0.06	0.03	0.02	0.02

24hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.01	0.00	0.00
	0.13	0.01	0.00	0.00
	0.10	0.01	0.00	0.00
Pos. Cont.	0.76	0.08	0.01	0.00

48hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.09	0.01	0.00	-0.01
	0.20	0.02	0.00	0.00
	0.17	0.03	0.00	0.01
Pos. Cont.	2.72	0.26	0.04	0.03

Initial Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.02	-0.01	-0.01	-0.02
Pos. Ctrl.	0.06	0.03	0.02	0.02

24hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.10	0.01	0.00	0.00
Pos. Ctrl.	0.76	0.08	0.01	0.00

48hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.15	0.02	0.00	0.00
Pos. Ctrl.	2.72	0.26	0.04	0.03

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.02	-0.01	0.06	0.03
24	0.10	0.01	0.76	0.08
48	0.15	0.02	2.72	0.26

570/600 vs Time

