

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 ^{137}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^{20} degree of certainty while maintaining 93% to 95% of the biological activity of the enzymes.

Lot: 61977654**Manufacturing Date: 25OCT2013**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 13.HN878.10.1.8.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: 13.HN878.10.1.8.WCg
Species: M. tuberculosis
Strain: HN878

Growth Conditions: Medium: GAS
of Fernbachs: 8 # of Roller bottles: 0
Inoculation Date: 10.1.13 Harvest Date: 10.15.13
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 59.8g

Date irradiated: 10.25.13 By: IC

Alamar Blue QC Information

Date Started: 10.30.13 Date Checked: 11.1.13

Positive Control: Positive X Negative

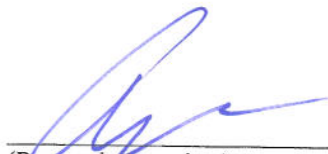
OD =.1 change: 0.0437

Sample: Positive Negative X

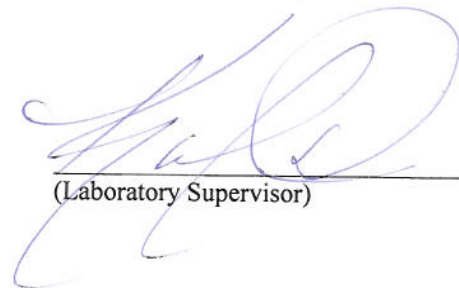
OD=.1 change: 0.0016

Aliquot Information

1 x 59.8g in 230ml falcon tube



(Research Associate) 11-4-13 (date)



(Laboratory Supervisor) 11/4/2013 (date)

Initial 0 hr 570/600			
raw	10-30-13.	0.98	0.82
	13.HN878	0.95	0.91
	10.1.8.WCg	0.98	0.90
		0.90	0.89

Initial Minus Blank			
	OD .1	OD .01	OD .001
Sample	0.05	-0.11	-0.01
Pos. Ctrl.	0.02	-0.03	-0.03
	0.05	-0.03	0.00
	-0.03	-0.04	0.00

Initial Average			
	OD .1	OD .01	OD .001
Sample	0.04	-0.05	-0.01
Pos. Ctrl.	-0.03	-0.04	0.00

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.04	-0.05	-0.03	-0.04
24	0.08	0.02	0.63	0.11
48	0.12	0.01	2.07	0.41

24hr 570/600			
	10-31-13.	1.10	1.05
		1.09	1.02
		1.08	1.03
		1.63	1.11

24hr Minus Blank			
	OD .1	OD .01	OD .001
Sample	0.09	0.04	0.02
Pos. Ctrl.	0.08	0.01	-0.02
	0.07	0.02	-0.01
	0.63	0.11	0.01

24hr Average			
	OD .1	OD .01	OD .001
Sample	0.08	0.02	0.00
Pos. Ctrl.	0.63	0.11	0.01

48 hr 570/600			
	11-1-13.	1.01	0.89
		1.00	0.89
		1.00	0.90
		2.95	1.29

48hr Minus Blank			
	OD .1	OD .01	OD .001
Sample	0.12	0.01	0.01
Pos. Ctrl.	0.11	0.01	0.00
	0.11	0.02	0.00
	2.07	0.41	0.01

48hr Average			
	OD .1	OD .01	OD .001
Sample	0.12	0.01	0.00
Pos. Ctrl.	2.07	0.41	0.01

570/600 vs Time

