

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 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: 62795335**Manufacturing Date: 13NOV2013**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 13.HN878.10.15.9.WCg.b is attached. Each vial contains 10 g *Mycobacterium tuberculosis*, strain HN878, gamma-irradiated whole cells.

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WORK SHEET FOR γ -IRRADIATED CELLS

General Information

Lot Number: 13.HN878.10.15.9.WCg.b
Species: M. tuberculosis
Strain: HN878

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: 76.3g

Date irradiated: 11.13.13 By: IC

Alamar Blue QC Information

Date Started: 1.8.14 Date Checked: 1.10.14

Positive Control: Positive X Negative


OD =.1 change: 0.0135

Sample: Positive Negative X

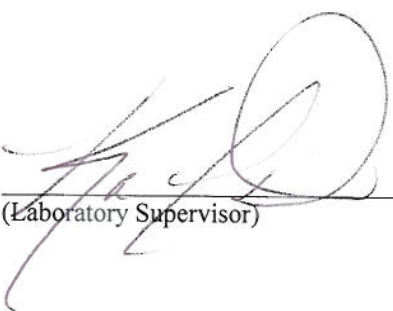
OD=.1 change: -0.0021

Aliquot Information

1 x 76.3g in 230ml falcon tube



(Research Associate) 1-15-14
(date)



(Laboratory Supervisor) 1-15-2014
(date)

Initial 0 hr 570/600				
raw	1-8-14	0.77	0.74	0.74
13.HN878.10.15.9.WC9.b		0.77	0.74	0.74
		0.77	0.74	0.74
		0.79	0.70	0.69

Initial Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.02	0.01	0.01
	0.04	0.02	0.01	0.01
	0.05	0.02	0.02	0.02
Pos. Cont.	0.06	-0.02	-0.04	-0.03

Initial Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.02	0.01	0.01
Pos. Ctrl.	0.06	-0.02	-0.04	-0.03

Sample .1	Sample .01	Pos .1	Pos .01
0	0.05	0.02	0.06
24	0.00	-0.06	0.75
48	-0.06	-0.30	0.71

24hr 570/600				
	1-9-14	0.88	0.85	0.81
		0.87	0.76	0.69
		0.89	0.82	0.84
		1.62	1.35	0.91

24hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.00	-0.03	-0.20	-0.06
	-0.01	-0.11	-0.18	-0.09
	0.01	-0.05	-0.16	-0.03
Pos. Cont.	0.75	0.47	0.03	0.01

24hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.00	-0.06	-0.18	-0.06
Pos. Ctrl.	0.75	0.47	0.03	0.01

48 hr 570/600				
	1-10-14	0.97	0.63	0.56
		0.87	0.61	0.58
		0.88	0.88	0.61
		1.64	1.83	1.01

48hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	-0.06	-0.30	-0.37	-0.24
	-0.06	-0.32	-0.34	-0.26
	-0.05	-0.27	-0.32	-0.20
Pos. Cont.	0.71	0.91	0.08	0.03

48hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	-0.06	-0.30	-0.35	-0.23
Pos. Ctrl.	0.71	0.91	0.08	0.03

570/600 vs Time

