

Mycobacterium tuberculosis*, Strain CDC1551, Gamma-Irradiated Whole Cells*Catalog No. NR-14820**

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Product Description: *Mycobacterium tuberculosis* (*M. tuberculosis*), strain CDC1551 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. The bacilli are harvested by filtration and washed with PBS pH 7.4.

Lot: 62795333**Manufacturing Date: 02JUN2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 14.CSU93.3.18.7.WCg.b is attached. Each vial contains 10 g *Mycobacterium tuberculosis*, strain CDC1551, gamma-irradiated whole cells.

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WORK SHEET FOR γ -IRRADIATED CELLS

General Information

Lot Number: 14.CSU93.3.18.7.WCg.b
Species: M. tuberculosis
Strain: CDC1551

Growth Conditions: Medium: GAS
of Fernbachs: 8 # of Roller bottles: 40
Inoculation Date: 3.18.14 Harvest Date: 4.1.14
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 72.3g

Date irradiated: 6.2.14 By: IC

Alamar Blue QC Information

Date Started: 6.4.14 Date Checked: 6.6.14

Positive Control: Positive X Negative


OD =.1 change: 0.0974

Sample: Positive Negative X


OD=.1 change: 0.0017

Aliquot Information

1 x 72.3g in 230ml falcon tube



(Research Associate) 6-9-14
(date)



(Laboratory Supervisor) 6/26/2014
(date)

Initial 0 hr 570/600					
raw	6-4-14.	0.73	0.71	0.73	0.71
	14.OSU93.3.18.7.WCg.b	0.73	0.71	0.73	0.71
		0.73	0.72	0.73	0.71
		0.77	0.75	0.75	0.75

Initial Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	OD.00001
Sample	0.01	-0.01	0.01	-0.02	-0.02
	0.01	-0.01	0.01	-0.02	-0.02
Pos. Cont.	0.05	0.03	0.03	0.02	0.02

Initial Average					
	OD .1	OD .01	OD .001	OD.0001	OD.00001
Sample	0.01	-0.01	0.01	-0.02	-0.02
Pos. Ctrl.	0.05	0.03	0.03	0.02	0.02

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.01	-0.01	0.05	0.03
24	0.06	0.00	4.21	0.55
48	0.09	0.01	4.72	1.32

24hr 570/600					
	6-5-14.	0.79	0.74	0.73	0.74
		0.80	0.74	0.74	0.74
		0.79	0.74	0.74	0.74
		4.94	1.29	0.80	0.74

24hr Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	OD.00001
Sample	0.06	0.00	0.00	0.00	0.00
	0.06	0.00	0.00	0.00	0.00
Pos. Cont.	4.21	0.55	0.06	0.06	0.01

24hr Average					
	OD .1	OD .01	OD .001	OD.0001	OD.00001
Sample	0.06	0.00	0.00	0.00	0.00
Pos. Ctrl.	4.21	0.55	0.06	0.06	0.01

48 hr 570/600					
	6-6-14.	0.84	0.75	0.74	0.75
		0.84	0.75	0.75	0.75
		0.83	0.75	0.75	0.75
		5.47	2.07	0.87	0.76

48hr Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	OD.00001
Sample	0.09	0.00	0.00	0.00	0.00
	0.10	0.01	0.00	0.00	0.00
Pos. Cont.	4.72	1.32	0.12	0.12	0.01

48hr Average					
	OD .1	OD .01	OD .001	OD.0001	OD.00001
Sample	0.09	0.01	0.00	0.00	0.00
Pos. Ctrl.	4.72	1.32	0.12	0.12	0.01

570/600 vs Time

