

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 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. The bacilli are harvested by filtration and washed with PBS pH 7.4.

Lot: 61757232**Manufacturing Date: 10JUL2013**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 13.CSU93.6.18.9.WCg 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: 13.CSU93.6.18.9.WCg
Species: M. tuberculosis
Strain: CDC1551

Growth Conditions: Medium: GAS
of Fernbachs: 8 # of Roller bottles: 0
Inoculation Date: 6.18.13 Harvest Date: 7.2.13
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 72.6g

Date irradiated: 7.10.13 By: IC

Alamar Blue QC Information

Date Started: 8.21.13 Date Checked: 8.23.13

Positive Control: Positive X Negative

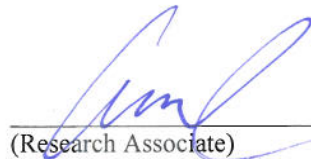
OD =.1 change: 0.0218

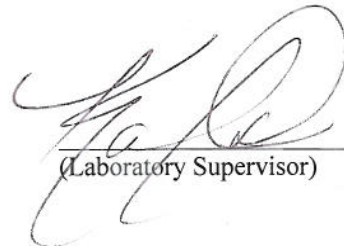
Sample: Positive Negative X

OD=.1 change: -0.0035

Aliquot Information

1 x 72.6g in 230ml falcon tube


(Research Associate) 8-26-13
(date)


(Laboratory Supervisor) 8/27/2013
(date)

raw	Initial 0 hr 570/600			
8-21-13.	0.83	0.72	0.79	0.69
13.CSU83.6.18.9.WCg	0.77	0.71	0.75	0.80
	0.83	0.81	0.81	0.81
	1.08	0.77	0.62	0.97

Initial Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	-0.06	0.01	-0.09
	-0.01	-0.07	-0.03	0.06
	0.05	0.03	0.03	0.33
Pos. Cont.	0.30	-0.01	-0.15	0.19

Initial Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.03	-0.03	0.00	0.10
Pos. Ctri.	0.30	-0.01	-0.15	0.19

Sample .1	Sample .01	Pos .1	Pos .01
0	0.03	-0.03	0.30
24	-0.22	-0.13	2.08
48	-0.14	-0.16	1.35

24hr 570/600				
8-22-13.	0.63	0.72	0.80	0.84
	0.65	0.73	0.80	0.86
	0.63	0.74	0.85	0.92
	2.94	1.42	0.91	0.89

24hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	-0.23	-0.14	-0.06	-0.02
	-0.21	-0.14	-0.06	-0.01
	-0.23	-0.12	-0.01	0.09
Pos. Cont.	2.08	0.56	0.04	0.03

24hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	-0.22	-0.13	-0.05	0.02
Pos. Ctri.	2.08	0.56	0.04	0.03

48 hr 570/600				
8-23-13.	0.63	0.62	0.62	0.65
	0.67	0.63	0.65	0.68
	0.68	0.65	0.70	0.74
	2.14	1.26	1.86	0.95

48hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	-0.17	-0.18	-0.18	-0.15
	-0.13	-0.17	-0.14	-0.10
	-0.11	-0.15	-0.09	-0.04
Pos. Cont.	1.35	0.46	1.08	0.15

48hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	-0.14	-0.16	-0.14	-0.10
Pos. Ctri.	1.35	0.46	1.08	0.15

570/600 vs Time

