

***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 <sup>137</sup>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<sup>20</sup> 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: 61757231****Manufacturing Date: 24JUN2013**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 13.CSU93.6.4.8.WCg is attached. Each vial contains 10 g *Mycobacterium tuberculosis*, Strain CDC1551, gamma-irradiated whole cells.

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WORK SHEET FOR  $\gamma$ -IRRADIATED CELLS

General Information

Lot Number: 13.CSU93.6.4.8.WCg  
Species: M. tuberculosis  
Strain: CDC1551

Growth Conditions: Medium: GAS  
# of Fernbachs: 8 # of Roller bottles: 0  
Inoculation Date: 6.4.13 Harvest Date: 6.18.13  
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 84.4g

Date irradiated: 6.24.13 By: IC

Alamar Blue QC Information

Date Started: 7.24.13 Date Checked: 7.26.13

Positive Control: Positive X Negative       

OD =.1 change: 0.0167

Sample: Positive        Negative X

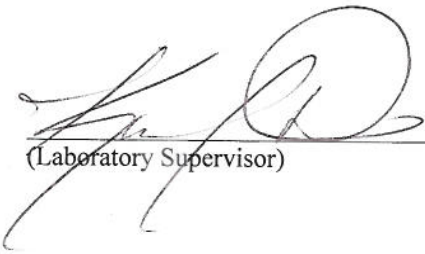
OD=.1 change: -0.0025

Aliquot Information

1 x 84.4g in 230ml falcon tube

  
(Research Associate)

8-1-13  
(date)

  
(Laboratory Supervisor)

8/5/2013  
(date)

Initial 0 hr 570/600						
raw	7-24-13.	0.73	0.91	0.86	0.88	
13.CSU93.6.4.8.WCg		0.84	0.77	0.80	0.71	
		0.80	0.76	0.49	0.47	
		0.71	0.76	0.70	0.77	

Initial Minus Blank						
	OD .1	OD .01	OD .001	OD.0001		
Sample	0.02	0.20	0.15	0.17		
	0.13	0.06	0.08	0.00		
	0.09	0.05	-0.22	0.00		
Pos. Cont.	0.00	0.05	-0.01	0.06		

Initial Average						
	OD .1	OD .01	OD .001	OD.0001		
Sample	0.08	0.10	0.01	0.05		
Pos. Ctrl.	0.00	0.05	-0.01	0.06		

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.08	0.10	0.00	0.05
24	0.00	-0.02	0.82	0.12
48	-0.04	-0.06	0.80	0.20

24hr 570/600						
	7-25-13.	0.78	0.78	0.76	0.78	
		0.78	0.75	0.75	0.74	
		0.81	0.78	0.78	0.77	
		1.61	0.91	0.79	0.80	

24hr Minus Blank						
	OD .1	OD .01	OD .001	OD.0001		
Sample	-0.01	-0.01	-0.03	-0.01		
	-0.01	-0.04	-0.04	-0.05		
	0.02	-0.01	-0.01	-0.02		
Pos. Cont.	0.82	0.12	0.00	0.01		

24hr Average						
	OD .1	OD .01	OD .001	OD.0001		
Sample	0.00	-0.02	-0.03	-0.03		
Pos. Ctrl.	0.82	0.12	0.00	0.01		

48 hr 570/600						
	7-26-13.	0.79	0.80	0.77	0.80	
		0.81	0.78	0.77	0.78	
		0.89	0.88	0.89	0.91	
		1.68	1.08	0.90	0.94	

48hr Minus Blank						
	OD .1	OD .01	OD .001	OD.0001		
Sample	-0.08	-0.08	-0.11	-0.08		
	-0.06	-0.10	-0.10	-0.07		
	0.02	0.00	0.01	0.06		
Pos. Cont.	0.80	0.20	0.03	0.06		

48hr Average						
	OD .1	OD .01	OD .001	OD.0001		
Sample	-0.04	-0.06	-0.06	-0.03		
Pos. Ctrl.	0.80	0.20	0.03	0.06		

