

***Mycobacterium tuberculosis*, Strain East African Indian 91\_0079, Gamma-Irradiated Whole Cells****Catalog No. NR-36492**

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**Product Description:** *Mycobacterium tuberculosis* (*M. tuberculosis*), strain East African Indian 91\_0079 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: 61977669****Manufacturing Date: 27JUL2013**

Production and QC testing were performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH). The Colorado State University documentation for bulk lot 13.EAI.7.2.6.WCg is attached. This lot was aliquoted at Colorado State University and each vial contains approximately 10 g of *Mycobacterium tuberculosis*, strain East African Indian 91\_0079 gamma-irradiated whole cells.

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## WORK SHEET FOR $\gamma$ -IRRADIATED CELLS

### General Information

Lot Number: 13.EAI.7.2.6.WCg  
Species: M. tuberculosis  
Strain: East African Indian 91\_0079

Growth Conditions: Medium: GAS  
# of Fernbachs: 16 # of Roller bottles: 0  
Inoculation Date: 7.2.13 Harvest Date: 7.16.13  
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 72.2g

Date irradiated: 7.27.13 By: IC

### Alamar Blue QC Information

Date Started: 8.28.13 Date Checked: 8.30.13

Positive Control: Positive X Negative       


OD =.1 change: 0.0221


Sample: Positive        Negative X

OD=.1 change: 0.0012

### Aliquot Information

1 x 72.2g in 230ml falcon tube

  
(Research Associate) 9-4-13  
(date)

  
(Laboratory Supervisor) 9/5/2013  
(date)

Initial 0 hr 570/600	
raw	8-28-13
	1.00
	0.96
	0.96
	0.95
	0.95
	1.00
	0.97
	1.00
	0.98
	0.98
	0.92
	0.92

Initial Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.04	0.00	0.00	0.02
	0.03	-0.01	0.00	-0.01
	0.04	0.01	0.04	0.02
Pos. Ctrl.	0.02	-0.07	-0.04	-0.04

Initial Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.04	0.00	0.02	0.01
Pos. Ctrl.	0.02	-0.07	-0.04	-0.04

Sample .1	Sample .01	Pos. .1	Pos. .01
0	0.04	0.00	0.02
24	0.08	0.00	0.73
48	0.10	0.01	1.08

24hr 570/600	
8-29-13	
	0.97
	0.89
	0.88
	0.86
	0.87
	0.98
	0.91
	0.90
	0.90
	1.62
	1.02
	0.83
	0.82

24hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.09	0.00	-0.01	-0.01
	0.07	-0.01	-0.03	-0.02
	0.10	0.02	0.01	0.01
Pos. Ctrl.	0.73	0.14	-0.06	-0.07

24hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.08	0.00	-0.01	-0.01
Pos. Ctrl.	0.73	0.14	-0.06	-0.07

48 hr 570/600	
8-30-13	
	0.90
	0.79
	0.78
	0.78
	0.89
	0.81
	0.79
	0.83
	0.80
	0.81
	1.88
	1.58
	0.84
	0.78

48hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.10	0.00	-0.02	-0.04
	0.09	0.01	-0.01	-0.01
	0.10	0.03	0.00	0.01
Pos. Ctrl.	1.08	0.78	0.04	-0.02

48hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.10	0.01	-0.01	-0.01
Pos. Ctrl.	1.08	0.78	0.04	-0.02

### 570/600 vs Time

