

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

This reagent is the tangible property of the U.S. Government.

**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: 61391647****Manufacturing Date: 12AUG2013**

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.7.16.7.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.

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



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

**General Information**

Lot Number: 13.EAI.7.16.7.WCg

Species: M. tuberculosis

Strain: East African Indian 91\_0079

Growth Conditions: Medium: GAS  
# of Fernbachs: 16 # of Roller bottles: 0  
Inoculation Date: 7.16.13 Harvest Date: 7.30.13  
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 52.4g

Date irradiated: 8.12.13 By: IC

**Alamar Blue QC Information**

Date Started: 8.28.13 Date Checked: 8.30.13

Positive Control: Positive X Negative       


OD =.1 change: 0.0392

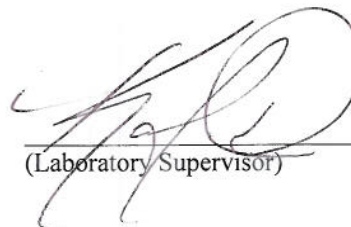
Sample: Positive        Negative X

OD=.1 change: 0.0014

**Aliquot Information**

1 x 52.4g in 230ml falcon tube

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

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

Initial 0 hr 570/600	
raw	0.97
13 EAI.7.16.7.WCg	0.95
	0.95
	0.93

Initial Minus Blank	
OD .1	0.00
OD .01	-0.02
OD .001	-0.04
OD.0001	0.02

Initial Average	
OD .1	-0.01
OD .01	-0.02
OD .001	-0.04
OD.0001	0.01

24hr 570/600	
8-29-13	0.77
	0.77
	0.76
	1.12

24hr Minus Blank	
OD .1	-0.17
OD .01	-0.16
OD .001	-0.15
OD.0001	-0.17

24hr Average	
OD .1	0.18
OD .01	-0.17
OD .001	-0.02
OD.0001	-0.04

48 hr 570/600	
8-30-13	0.80
	0.81
	0.82
	2.59

48hr Minus Blank	
OD .1	0.05
OD .01	0.06
OD .001	0.07
OD.0001	1.84

48hr Average	
OD .1	0.06
OD .01	1.84
OD .001	0.00
OD.0001	0.01

Sample .1	Sample .01	Pos .1	Pos .01
0	-0.01	-0.02	-0.04
24	-0.17	0.18	-0.02
48	0.06	0.00	1.84

