

Certificate of Analysis for NR-36492

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 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: 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 γ-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 Inoculation Date: 7.2.13 # of Roller bottles: 0 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

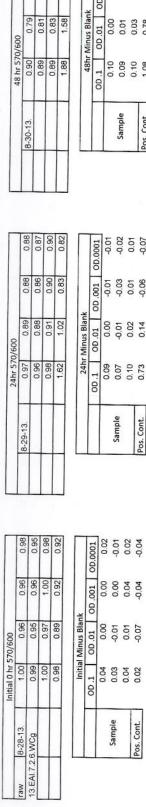
OD=.1 change: 0.0012

Aliquot Information

72.2g in 230ml falcon tube

(Research Associate)

(Laboratory Supervisor)



	24hr	24hr Minus Blank	¥
	0D.1	10. do	0D.001
	60'0	00.0	-0.01
Sample	0.07	-0.01	-0.03
	0.10	0.02	0.01
Pos. Cont.	0.73	0.14	-0.06

	24hr	24hr Minus Blank	¥	
	0D.1	10. do	00. do	OD.0001
	60.0	0.00	-0.01	-0.01
Sample	0.07	0.01	-0.03	-0.02
	0.10	0.02	0.01	0.01
Pos. Cont.	0.73	0.14	-0.06	-0.07
	24	24hr Average		
	0D.1	10. do	0D.001	OD.0001
Sample	0.08	0.00	-0.01	-0.01
Pos. Ctrl.	0.73	0.14	-0.06	-0.07

	non/ors mot	200/0		
8-30-13.	06.0	0.79	0.78	0.76
	0.89	0.81	0.79	0.79
	0.89	0.83	0.80	0.81
	1.88	1.58	0.84	0.78
	48hi	48hr Minus Blank	¥	
	00.1	0D .01	0D.001	OD.0001
	0.10	00'0	-0.02	-0.04
Sample	0.09	0.01	-0.01	-0.01
	0.10	0.03	0.00	0.01
Pos. Cont.	1.08	0.78	0.04	-0.02
	48	48hr Average		
	0D.1	10. do	100. do	OD.0001
Sample	0.10	0.01	-0.01	-0.01
Pos. Ctrl.	1.08	0.78	0.04	-0.02

Pos .01	-0.07	0.14	
Pos .1	0.02	0.73	
Sample .01	0.00	0.00	100
Sample .1	0.04	0.08	010
	0	24	48

| Initial Average | OD.01 | OD.001 | OD.0001 | OD.001 | OD.000 | O.000 | O.001 | O.001 | O.001 | O.001 | O.002 | O.001 | O.004 | O.004

Sample Pos. Ctrl.

Pos. Cont. Sample

		•		*	20	
D.						
					30 40	Hours after setup
		1			20	пон
					10	