

Certificate of Analysis for NR-49101

Mycobacterium tuberculosis, Strain Indo-Oceanic T17X, Gamma-Irradiated Whole Cells

Catalog No. NR-49101

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

Product Description: *Mycobacterium tuberculosis* (*M. tuberculosis*), strain Indo-Oceanic T17X 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.

Lot: 63648740 Manufacturing Date: 20NOV2016

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 16.IO.2.3.9.WCg.b is attached.

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WORK SHEET FOR γ-IRRADIATED CELLS

General Information Lot Number: 16.IO.2.3.9.WCg.b Species: M. tuberculosis Strain: Indo Oceanic T17x **Growth Conditions:** Medium: GAS # of Fernbachs: 16 # of Roller bottles: 0 Inoculation Date: 2.3.16 Harvest Date: 2.17.16 SOP # used for Harvest: PP003.3 1/11/13 version Wet Weight: 100.0g Date irradiated: 11.20.16 By: JB Alamar Blue QC Information Date Started: 11.30.16 Date Checked: 12.2.16 Positive Control: Positive___X___ Negative____ Sample: Positive_____ Negative__X___ **Aliquot Information**

100.0g in 230ml falcon tube

(Research Associate)

24hr 570/600 12-1-16. 0.78 0.72 0.78 0.73	0.70	0.70 0.69 0.70 0.69 0.70 0.69 0.70 0.78 0.73 0.77 0.78 0.73 0.72 0.72 0.72	0/600 24hr 570/600 0.70 0.69 0.70 12-1-16 0.78 0.72 0.72 0.73 0.70 0.69
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0.09		0.70 0.69	0.70 0.69 0.73 0.70
	0.69	0.70	0.70

	Initial	Initial Minus Blank	~	
	1. do	10. do	0D .001	OD.0001
	90.0	00.00	-0.01	-0.01
Sample	0.04	0.05	0.00	-0.01
	0.04	0.01	-0.01	-0.02
Pos. Cont.	0.04	0.01	0.00	0.00

	T. OO	10. 00	100.00	OD.OOT
	90.0	0.00	-0.01	-0.01
Sample	0.04	0.02	0.00	-0.01
	0.04	0.01	-0.01	-0.02
Pos. Cont.	0.04	0.01	0.00	0.00
	Initi	Initial Average	100	, , , ,
	OD.1	0D .01	OD .001	OD.0001
Sample	0.05	0.01	-0.01	-0.01
Pos. Ctrl.	0.04	0.01	00.00	00.00

	24hr	24hr Minus Blank	~	
	0D.1	10. do	0D .001	OD.0001
	90.0	0.00	0.00	0.00
Sample	90.0	0.01	0.00	0.00
	90.0	0.01	0.00	0.00
Pos. Cont.	0.92	0.17	0.02	0.00
	47	24nr Average		
	0D.1	10. do	0D .001	OD.0001
Sample	90'0	0.01	00.0	00'0
Pos. Ctrl.	0.92	0.17	0.02	0.00

	48hr	48nr Minus Blank	~	
	1. do	10. do	0D .001	OD.0001
	0.08	0.00	0.00	0.00
Sample	0.09	0.01	0.00	0.00
	0.09	0.01	0.00	0.00
Pos. Cont.	1.22	0.59	0.07	0.00
	48	48hr Average		
	0D .1	10. do	0D .001	OD.0001
Sample	80'0	0.01	00.0	0.00
Pos. Ctrl.	1.22	0.59	0.07	0.00

	Pos .1		——————————————————————————————————————	y = 0.0247x - y = 0.012x - y = 0.0008x - y = 0.000000000000000000000000000000000	y = 7E-07x
				•	90 05
570/600 vs Time					10 20 30 40 Hours after setup
	1.20	1.00	Average Average 6.000 mn072	0.20	0.00