

# **Certificate of Analysis for NR-14821**

### Mycobacterium tuberculosis, Strain HN878, Gamma-Irradiated Whole Cells

### Catalog No. NR-14821

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

**Product Description:** *Mycobacterium tuberculosis* (*M. tuberculosis*), strain HN878, 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.

Lot: 61977653 Manufacturing Date: 02OCT2013

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 13.HN878.9.3.6.WCg is attached.

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#### WORK SHEET FOR γ-IRRADIATED CELLS

## General Information Lot Number: 13.HN878.9.3.6.WCg Species: M. tuberculosis Strain: HN878 **Growth Conditions:** Medium:\_\_\_\_ # of Fernbachs: 8 # of Roller bottles: 0 Inoculation Date: 9.3.13 Harvest Date: \_\_9.17.13 SOP # used for Harvest: PP003.3 1/11/13 version Wet Weight: 55.6g Date irradiated: 10.2.13 By: IC Alamar Blue QC Information Date Started: 10.16.13 Date Checked: 10.18.13 Positive Control: Positive X Negative OD = .1 change: 0.0353 Sample: Positive \_\_ Negative\_ X\_\_\_ OD=.1 change: 0.001 **Aliquot Information** 55.6g in 230ml falcon tube

(date)

(Laboratory Supervisor)

(Research Associate)

48 hr 570/600	0.81	0.78	0.80	0.82		OD:0001	-0.02	90.0-	-0.04	-0.01		OD.0001	-0.04	-0.01
	0.83	0.80	0.81	2.43	٧	100. do	0.00	-0.03	-0.03	1.60		0D.001	-0.02	1.60
	0.80	0.78	0.80	2.72	48hr Minus Blank	10. do	-0.03	-0.06	-0.04	1.88	48hr Average	0D.01	-0.04	1.88
	06.0	0.91	0.89	2.51	48hr	0D.1	90.0	0.08	90.0	1.67	48	0D.1	0.07	1.67
	10-18-13.							Sample		Pos. Cont.			Sample	Pos. Ctrl.
24hr 570/600	0.79	0.75	0.76	0.79	Γ	OD.0001	-0.02	-0.06	-0.05	-0.02		OD.0001	-0.04	-0.02
	0.77	0.74	0.75	0.79		OD .001 OD	-0.04	-0.07	-0.06	-0.02		OD .001 OD	-0.06	-0.02
	0.76	0.74	0.75	1.47	24hr Minus Blank	OD .01	-0.05	-0.07	-0.06	99.0	24hr Average		-0.06	99.0
	0.84	0.85	0.83	2.98	24hr N	00.1	0.03	0.04	0.02	2.17	24h	0D.1	0.03	2.17
	10-17-13.							Sample		Pos. Cont.		-	Sample	Pos. Ctrl.
Initial 0 hr 570/600	1.03	1.04	1.01	0.98		OD.0001	0.04	0.05	0.03	-0.01		OD.0001	0.04	-0.01
	1.00	1.01	0.99	96'0		0D.001	0.01	0.02	0.00	-0.03		00 .001	0.01	-0.03
	1.02	1.01	1.01	0.98	Initial Minus Blank	0D .01	0.03	0.03	0.02	-0.01	Initial Average	10. do	0.03	-0.01
	1.02	1.01	1.00	0.97	Initial	0D.1	0.03	0.02	0.01	-0.02	Initi	0D.1	0.02	-0.02
	5-13.	13.HN878.9.3.6.WCg						Sample		Pos. Cont.			Sample	Pos. Ctrl.
	10-16-13	3.9.3.	H	Н	Ш	_		_	_	<u>م</u>		_	Š	Δ.

