SUPPORTING INFECTIOUS DISEASE RESEARCH

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 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.

Lot: 61977655

Manufacturing Date: 180CT2013

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 13.HN878.9.17.7.WCg is attached.

ATCC[®], 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[®]'s knowledge.

ATCC[®] 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 γ-IRRADIATED CELLS

General Information

Lot Number: <u>13.HN878.9.17.7.WCg</u> Species: <u>M. tuberculosis</u> Strain: <u>HN878</u>

Growth Conditions:

Medium:GAS# of Fernbachs:8# of Roller bottles:0Inoculation Date:9.17.13SOP # used for Harvest:PP003.3 1/11/13 version

Wet Weight: 63.2g

Date irradiated: 10.18.13 By: IC

Alamar Blue QC Information

Date Started: 10.30.13 Date Checked: 11.1.13

Positive Control: Positive X Negative

OD =.1 change: 0.0437

Sample: Positive ____ Negative __X____

OD=.1 change: 0.0012 Aliquot Information 1 x 63.2g in 230ml falcon tube

11-4-13

(Research Associate)

(date)

(date) (Laboratory Supervisor)

0.77 0.91 0.91 0.91 0.91 0.91 0.90 0.91 0.90 0.90			Initial 0 hr 570/600	570/600		
0.97 0.95 0.91 0.91 0.91 0.90	raw	10-30-13.	0.95	0.77	0.91	0.86
0.91 0.90	13.HN87	8.9.17.7.WCg	0.97	0.95	0.91	0.96
000 000			0.91	0.91	06:0	0.91
0.03			06.0	0.89	0.93	0.91
			00 1	00 01	00 001	00 000

0.02 0.03 0.03 0.01 0.02 0.02 0.04 0.02		0D.1	0D .01	0D .001	OD.0001
0.03 0.02 0.02 0.02 0.04		0.02	-0.16	-0.02	-0.07
-0.02 -0.02 -0.04 -0.04	Sample	0.03	0.01	-0.02	0.03
-0.03 -0.04		-0.02	-0.02	-0.03	-0.01
	Pos. Cont.	-0.03	-0.04	0.00	-0.02
		Init	tial Average		
Initial Average					

	0D.1	0D .01	0D .001	OD.0001
Sample	0.01	-0.05	-0.02	-0.02
Pos. Ctrl.	-0.03	-0.04	00.00	-0.02

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.01	-0.05	-0.03	-0.04
24	-0.05	0.06	0.63	0.11
48	0.07	0.01	2.07	0.41

	000/0/c 11147	00		
10-31-13.	0.97	1.12	1,14	1.13
	0.96	1.07	1.08	1.09
	0.95	1.03	1.04	1.05
1	1.63	1.11	1.02	1.00

	24hr	24hr Minus Blank	k	
	0D.1	0D .01	OD .001	OD.0001
	-0.04	0.11	0.13	0.13
Sample	-0.05	0.06	0.07	0.08
	-0.06	0.03	0.03	0.03
Pos. Cont.	0.63	0.11	0.01	-0.01

	24	24hr Average		
	0D.1	0D .01	0D.001	OD.0001
ample	-0.05	0.06	0.08	0.08
Pos. Ctrl.	0.63	0.11	0.01	-0.01

0.35 0.35 0.35 0.30 0.94 0.88 0.85 0.95 0.88 0.89 2.95 1.29 0.89 Adv. Minue Blank

00.1 00.3 00.3 00.3 00.3 0.08 0.03 -0.01 -0.03 -0.03 0.07 -0.01 -0.03 -0.03 -0.03 2.07 0.41 -0.02 -0.03 -0.03		1 00	00 00	00 001	000000
0.08 0.03 -0.01 0.06 -0.01 -0.03 0.07 -0.01 -0.02 2.07 0.41 0.01	The second second	1.00	TA' AA	TON' NO	TOOD OD
0.06 -0.01 -0.03 0.07 -0.01 -0.02 2.07 0.41 0.01		0.08	0.03	-0.01	-0.02
0.07 -0.01 -0.02 2.07 0.41 0.01	Sample	0.06	-0.01	-0.03	-0.04
2.07 0.41 0.01		0.07	-0.01	-0.02	-0.01
	Pos. Cont.	2.07	0.41	0.01	-0.04

	40	HOIL AVGIAGE		
	0D.1	0D .01	OD .001	OD.0001
Sample	0.07	0.01	-0.02	-0.03
Pos. Ctrl.	2.07	0.41	0.01	-0.04

