Certificate of Analysis for NR-49100

Mycobacterium tuberculosis, Strain HN878, Gamma-Irradiated Whole Cells

Catalog No. NR-49100
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 ^{137}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^{20} degree of certainty while maintaining 93% to 95% of the biological activity of the enzymes.

Lot: 63141096 **Manufacturing Date: 13NOV2014**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lot 14.HN878.10.14.9.WCg.a is attached. Each vial contains 1 g *M. tuberculosis*, strain HN878, gamma-irradiated whole cells.

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.

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WORK SHEET FOR γ-IRRADIATED CELLS

General Information

Lot Number: 14.HN878.10.14.9.WCg.a
Species: M. tuberculosis
Strain: HN878

Growth Conditions: Medium: GAS
# of Fernbachs: 16 # of Roller bottles: 0
Inoculation Date: 10.14.14 Harvest Date: 10.28.14
SOP # used for Harvest: PP003.3 1/11/13 version

Wet Weight: 68.5g

Date irradiated: 11.13.14 By: RS

Alamar Blue QC Information

Date Started: 1.7.15 Date Checked: 1.9.15

Positive Control: Positive X Negative

Sample: Positive Negative X

Aliquot Information

1 x 68.5g in 230ml falcon tube

1/9/15
(Research Associate) (date)

1/30/2015
(Laboratory Supervisor) (date)

Initial 0 hr 570/600					
raw	1-7-15.	0.77	0.74	0.73	0.72
14.HN878.10.14.9.WCg.a		0.76	0.73	0.73	0.72
		0.77	0.74	0.74	0.73
		0.77	0.74	0.74	0.73

24hr 570/600					
	1-8-15.	0.82	0.74	0.73	0.74
		0.81	0.74	0.74	0.74
		0.81	0.75	0.74	0.74
		3.38	1.21	0.77	0.74

48 hr 570/600					
	1-9-15.	0.87	0.76	0.75	0.75
		0.86	0.76	0.75	0.75
		0.87	0.76	0.75	0.75
		3.46	1.85	0.81	0.76

Initial Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.01	0.01	0.00
	0.04	0.01	0.01	0.00
	0.05	0.02	0.01	0.00
Pos. Cont.	0.05	0.02	0.01	0.01

24hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.08	0.01	0.00	0.00
	0.07	0.01	0.00	0.00
	0.07	0.01	0.00	0.00
Pos. Cont.	2.64	0.47	0.04	0.01

48hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.12	0.01	0.00	0.00
	0.11	0.01	0.00	0.00
	0.12	0.02	0.00	0.00
Pos. Cont.	2.71	1.10	0.07	0.01

Initial Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.02	0.01	0.00
Pos. Ctrl.	0.05	0.02	0.01	0.01

24hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.08	0.01	0.00	0.00
Pos. Ctrl.	2.64	0.47	0.04	0.01

48hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.12	0.01	0.00	0.00
Pos. Ctrl.	2.71	1.10	0.07	0.01

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.05	0.02	0.05	0.02
24	0.08	0.01	2.64	0.47
48	0.12	0.01	2.71	1.10