

Mycobacterium bovis*, Strain AF 2122/97 (ATCC[®] BAA-935[™]), Gamma-Irradiated Whole Cells*Catalog No. NR-31210**

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Product Description: *Mycobacterium bovis* (*M. bovis*), strain AF 2122/97 (ATCC[®] BAA-935[™]), was grown to late-log phase in sodium pyruvate 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. bovis* 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: 60734100**Manufacturing Date: 29MAR2012**

QC testing was performed by Colorado State University and the documentation for lot 12.BAA935.1.23.4.WCg is attached.

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WORK SHEET FOR γ -IRRADIATED CELLS

General Information

Lot Number: 12.BAA935.1.23.4.WCg

Species: M. bovis

Strain: BAA-935

Growth Conditions:

Medium: SPAS

of Fernbachs: 8

of Roller bottles: 40

Inoculation Date: 01.23.12

Harvest Date: 02.13.12

SOP # used for Harvest: PP003.5/9/08 version

Wet Weight: 24.6g

Date irradiated: 03.29.12 By: CF

Alamar Blue QC Information

Date Started: 04.09.12 Date Checked: 04.11.12

Positive Control: Positive x Negative _____


OD_{positive} =.1 change: 0.0997

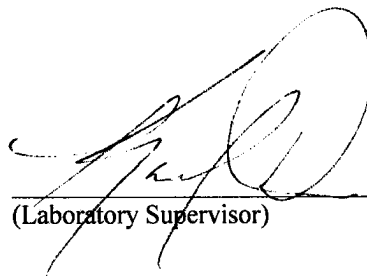
Sample: Positive _____ Negative x

OD_{sample} =.1 change: 0.0061

Aliquot Information

1 x 24.6 g in 230ml falcon tube


(Research Associate) 04/13/12
(date)

 4/16/2012
(Laboratory Supervisor) (date)

Initial 0 hr 570/600						
0.790598	1.138211	0.7516779	0.758475	0.761194	0.760383	
1	0.993197	0.7814815	0.760456	0.782828	0.757246	
0.971429	0.994521	0.7536657	0.782805	0.766393	0.768939	
1.026316	1.056555	0.8421053	0.791971	0.788732	0.772727	

Initial Minus Blank						
	OD .1	OD .01	OD .001	OD .0001		
Sample	-0.03892	-0.03212	-0.0294	-0.03021		
	-0.009117	-0.03014	-0.00777	-0.03335		
	-0.036933	-0.00779	-0.0242	-0.02166		
Pos. Cont.	0.051507	0.001373	-0.00187	-0.01787		

Initial Average						
	OD .1	OD .01	OD .001	OD .0001		
Sample	-0.028323	-0.02335	-0.02046	-0.02841		
Pos. Ctrl.	0.051507	0.001373	-0.00187	-0.01787		
48 hr 570/600						
0.716096	1.067708	0.9649369	0.757407	0.710359	0.705699	
1.025641	0.971014	0.9223744	0.717105	0.771536	0.712994	
1	1.028881	1.0515917	0.787149	0.770115	0.71542	
1.052632	1.077922	5.5547945	0.914972	0.802817	0.746667	

48hr Minus Blank						
	OD .1	OD .01	OD .001	OD .0001		
Sample	0.2488406	0.041311	-0.00574	-0.0104		
	0.2062781	0.001009	0.055439	-0.0031		
	0.3354953	0.071052	0.054019	-0.00068		
Pos. Cont.	4.8386982	0.198876	0.086721	0.03057		

48hr Average						
	OD .1	OD .01	OD .001	OD .0001		
Sample	0.263538	0.037791	0.034574	-0.00473		
Pos. Ctrl.	4.8386982	0.198876	0.086721	0.03057		

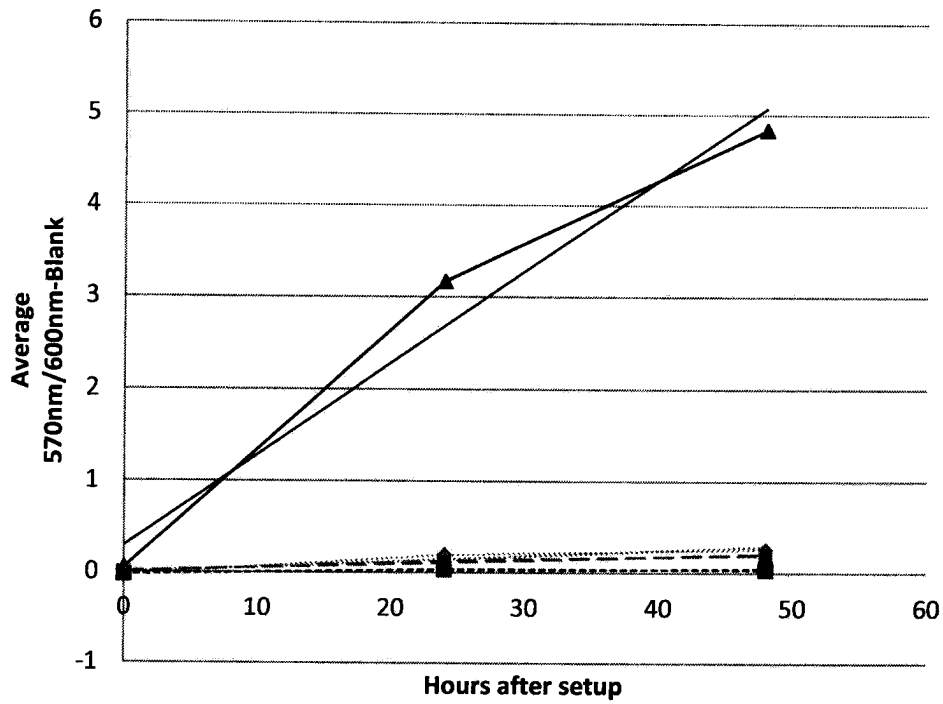
24hr 570/600						
0.707347	1.227273	0.882895	0.742287	0.701773	0.698069	
1.075	1.020548	0.871907	0.712022	0.769517	0.706742	
1.029412	1.017032	0.956634	0.780876	0.755102	0.708005	
1.078947	1.078086	3.875	0.839721	0.782007	0.740576	

24hr Minus Blank						
	OD .1	OD .01	OD .001	OD .0001		
Sample	0.175547	0.034939	-0.00557	-0.00928		
	0.164559	0.004675	0.062169	-0.00061		
	0.249287	0.073529	0.047755	0.000657		
Pos. Cont.	3.167653	0.132374	0.074659	0.033229		

24hr Average						
	OD .1	OD .01	OD .001	OD .0001		
Sample	0.196464	0.037714	0.034783	-0.00308		
Pos. Ctrl.	3.167653	0.132374	0.074659	0.033229		

24hr Average						
	Sample .1	Sample .01	Pos .1	Pos .01		
0	-0.02832	-0.02335	0.051507	0.001373		
24	0.196464	0.037714	3.167653	0.132374		
48	0.263538	0.037791	4.838698	0.198876		

570/600 vs Time



◆ Sample .1

■ Sample .01

▲ Pos .1

■ Pos .01

..... Linear (Sample .1)

----- Linear (Sample .01)

———— Linear (Pos .1)

----- Linear (Pos .01)

$$y = 0.0061x - 0.002$$

$$y = 0.0013x - 0.0132$$

$$y = 0.0997x + 0.2924$$

$$y = 0.0041x + 0.0121$$