

# Mycobacterium tuberculosis, Strain H37Rv, Gamma-Irradiated Whole Cells Kit Containing Hypoxic and Normoxic Cultures

## Catalog No. NR-48696

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

**Product Description:** NR-48696 is a kit comprised of gamma irradiated cells from two preparations of *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv.

KIT COMPONENT	BEI RESOURCES PRODUCT AND LOT NUMBERS	CSU LOT NUMBER	MANUFACTURING DATE
<i>M. tuberculosis</i> , Strain H37Rv, Irradiated Cells (hypoxic culture)	NR-36493 lot 70004728	17.Rv.2.3.18.4.WCg.Hypoxic	03APR2017
<i>M. tuberculosis</i> , Strain H37Rv, Irradiated Cells (normoxic culture)	NR-36494 lot 70000501	17.Rv.2.3.18.4.WCg.Normoxic	13APR2017

## Lot: 70006289

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lots 17.Rv.2.3.18.4.WCg.Hypoxic and 17.Rv.2.3.18.4.WCg.Normoxic is attached. The kit was assembled by BEI Resources on 12JUN2017.

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## WORK SHEET FOR $\gamma$ -IRRADIATED CELLS

### General Information

Lot Number: 17.Rv.2.3.18.4.WCg.Hypoxic

Species: M. tuberculosis

Strain: H37Rv

### Growth Conditions:

Medium: GAS

# of Fermentors: 1 (4L)

Inoculation Date: 03/18/17 Harvest Date: 01/31/17

SOP # used for Harvest: PP040.1

Wet Weight: 7.6g

Date irradiated: 03/31/17-04/03/17 By: JB

### Alamar Blue QC Information

Date Started: 04/05/17 Date Checked: 04/07/17

Positive Control: Positive x Negative       

OD<sub>positive</sub> = .1 change: 0.0579

Sample: Positive        Negative x

OD<sub>sample</sub> = .1 change: 0.0007

### Aliquot Information

1 x 7.6 g in 50ml falcon tube

See graph for dissolved oxygen (DO) log.

Culture was allowed to grow for an additional 2 days to produce efficient biomass prior to induction to hypoxia.

  
(Research Associate) (date)

  
(Laboratory Supervisor)

4/7/17  
(date)

Initial 0 hr 570/600			
0.748414	0.937286	0.7657823	0.742515
		0.739388	0.742126
	0.914928	0.7583955	0.741028
		0.741176	0.72744
	0.894501	0.762466	0.741709
		0.742545	0.744346
	0.941876	0.7924171	0.763258
		0.756286	0.75605

Initial Minus Blank			
	OD .1	OD .01	OD .001
Sample	0.0173687	-0.005899	-0.009026
	0.009982	-0.007385	-0.007237
	0.0140525	-0.006705	-0.005869
Pos. Cont.	0.0440036	0.014844	0.007873
			0.007637

Initial Average			
	OD .1	OD .01	OD .001
Sample	0.0138011	-0.006663	-0.007377
Pos. Ctrl.	0.0440036	0.014844	0.007873
			0.007637

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.013801	-0.006663	0.044004	0.014844
24	0.033374	-0.001689	1.922141	0.256174
48	0.047664	0.0007193	2.823911	0.721758

24hr 570/600			
0.764213	1.244	0.804987	0.763653
		0.758463	0.757776
	1.201738	0.793013	0.763229
		0.757904	0.769944
	1.196219	0.794764	0.760692
		0.758401	0.75713
	1.602366	2.686354	1.020387
		0.801457	0.774483

24hr Minus Blank			
	OD .1	OD .01	OD .001
Sample	0.040773	-0.00056	-0.00575
	0.0288	-0.000985	-0.006309
	0.03055	-0.003522	-0.005812
Pos. Cont.	1.922141	0.256174	0.037244
			0.01027

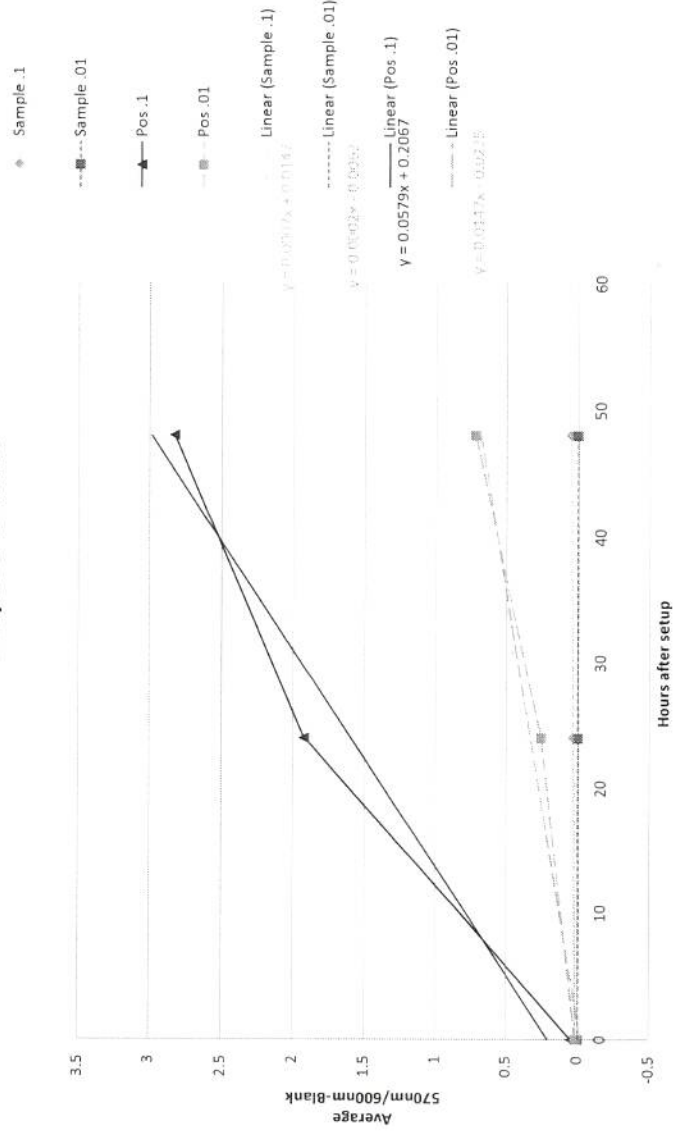
24hr Average			
	OD .1	OD .01	OD .001
Sample	0.033374	-0.001689	-0.005957
Pos. Ctrl.	1.922141	0.256174	0.037244
			0.01027

48 hr 570/600			
0.778906	1.506944	0.835766	0.780209
		0.770583	0.770774
	1.449892	0.820922	0.780686
		0.771403	0.79096
	1.458459	0.823024	0.777982
		0.771978	0.770446
	1.555654	3.602817	1.500664
		0.875717	0.804029

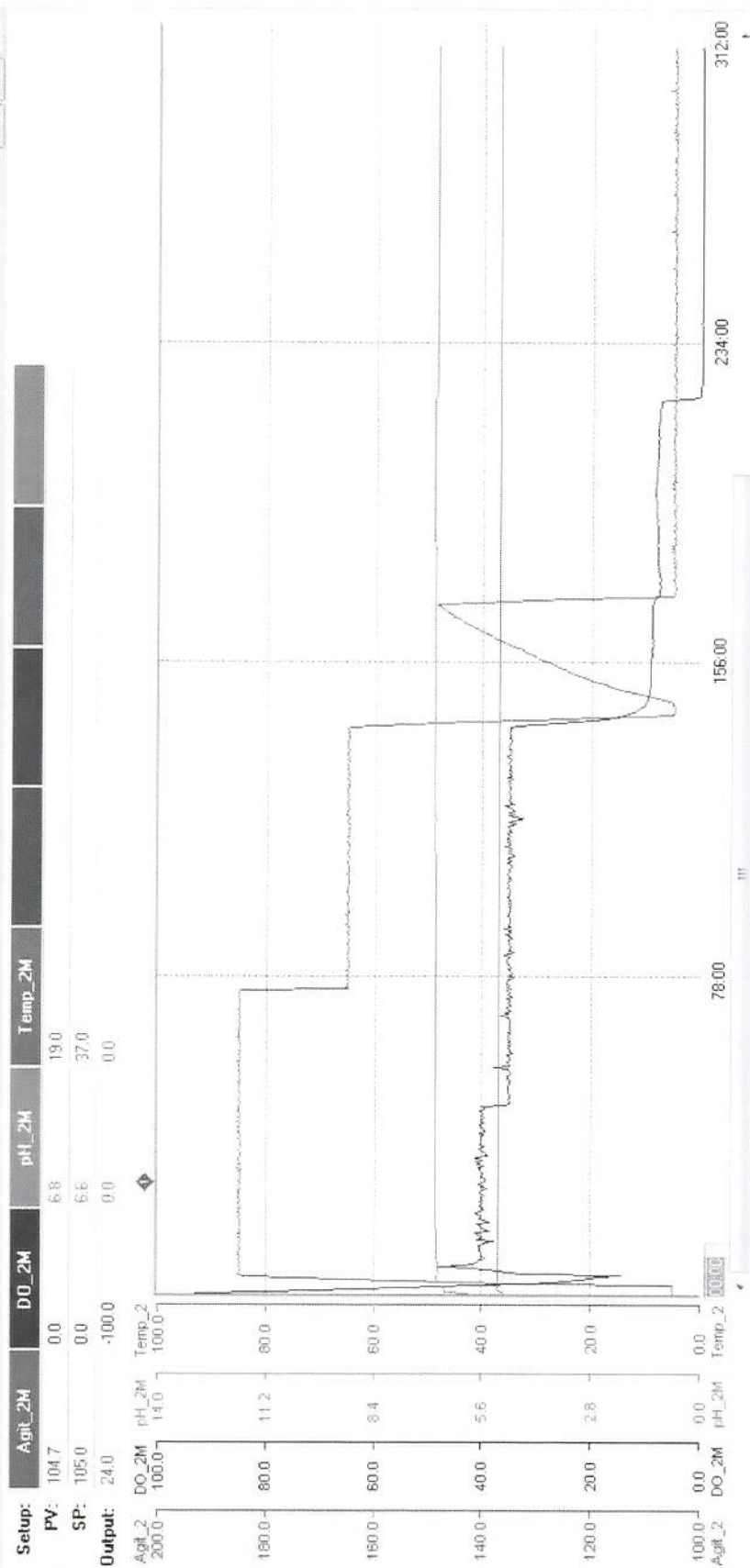
48hr Minus Blank			
	OD .1	OD .01	OD .001
Sample	0.05686	0.001303	-0.008324
	0.042016	0.00178	-0.007504
	0.044118	-0.000925	-0.006928
Pos. Cont.	2.823911	0.721758	0.096811
			0.025123

48hr Average			
	OD .1	OD .01	OD .001
Sample	0.047664	0.000719	-0.007585
Pos. Ctrl.	2.823911	0.721758	0.096811
			0.025123

570/600 vs Time



# 17.Rv.2.3.18.4.WCg.Hypoxic



## WORK SHEET FOR $\gamma$ -IRRADIATED CELLS

### General Information

Lot Number: 17.Rv.2.3.18.4.WCg.Normoxic

Species: M. tuberculosis

Strain: H37Rv

### Growth Conditions:

Medium: GAS

# of Fermentors: 1 (4L)

Inoculation Date: 03/18/17 Harvest Date: 03/28/17

SOP # used for Harvest: PP040.1

Wet Weight: 6.0g

Date irradiated: 03/31/17-04/13/17 By: JB

### Alamar Blue QC Information

Date Started: 04/05/17 Date Checked: 04/07/17

Positive Control: Positive x Negative       

OD<sub>positive</sub> = .1 change: 0.0579

Sample: Positive        Negative x

OD<sub>sample</sub> = .1 change: 0.0046

### Aliquot Information

1 x 6.0 g in 50ml falcon tube

See graph for dissolved oxygen (DO) log.

 04/11/17  
(Research Associate) (date)

 4/11/17  
(Laboratory Supervisor) (date)

Initial 0 hr 570/600					
0.748414	0.881443	0.7720307	0.755361	0.748252	0.745236
	0.935006	0.7671103	0.754195	0.746884	0.747012
	0.938936	0.7708895	0.757282	0.748503	0.748466
	0.941876	0.7924171	0.763258	0.756286	0.75605

Initial Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.0236171	0.006947	-0.000162	-0.003178	
	0.0186968	0.005782	-0.00153	-0.001402	
	0.022476	0.008868	8.95E-05	5.28E-05	
Pos. Cont.	0.0440036	0.014844	0.007873	0.007637	

Initial Average					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.0215966	0.007199	-0.000534	-0.001509	
Pos. Ctrl.	0.0440036	0.014844	0.007873	0.007637	

Sample .1	Sample .01	Pos .1	Pos .01
0	0.021597	0.007199	0.044004
24	0.16366	0.0184075	1.922141
48	0.241695	0.0253558	2.823911

24hr 570/600					
0.764213	1.716738	0.912659	0.782975	0.762172	0.761417
	1.844673	0.892611	0.773953	0.759641	0.76011
	1.595358	0.978351	0.790934	0.761949	0.75907
	1.602366	2.686354	1.020387	0.801457	0.774483

24hr Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.148446	0.018761	-0.002041	-0.002797	
	0.128397	0.00974	-0.004572	-0.004103	
	0.214137	0.026721	-0.002264	-0.005144	
Pos. Cont.	1.922141	0.256174	0.037244	0.01027	

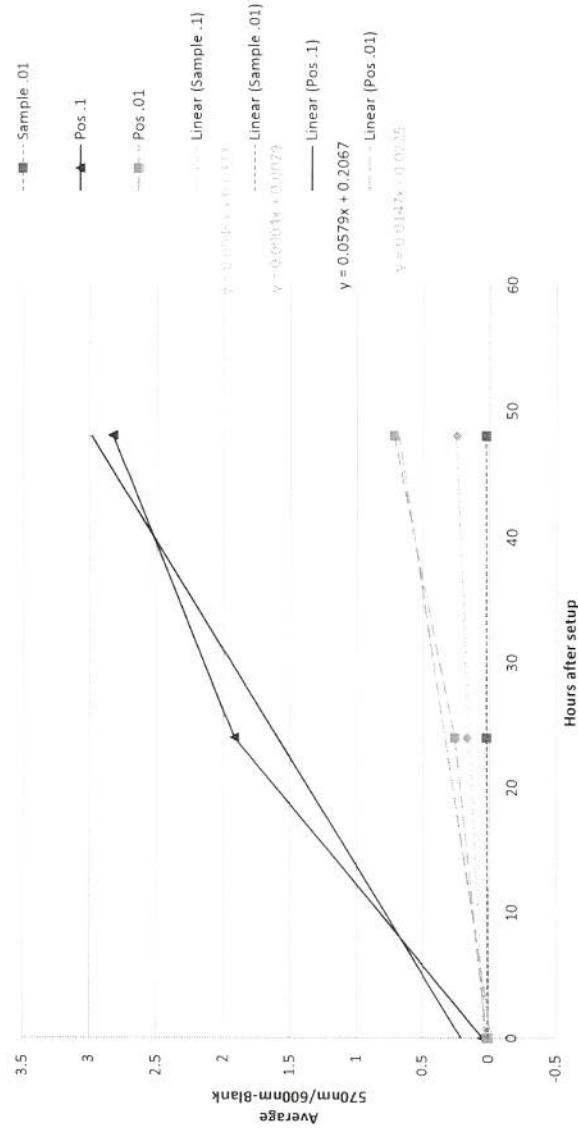
24hr Average					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.16366	0.018407	-0.002959	-0.004014	
Pos. Ctrl.	1.922141	0.256174	0.037244	0.01027	

48 hr 570/600					
0.778906	1.376013	0.995851	0.80303	0.774528	0.773496
	1.500766	0.970348	0.792683	0.772973	0.772643
	1.321631	1.095604	0.817073	0.777148	0.773408
	1.555654	3.602817	1.500664	0.875717	0.804029

48hr Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.216944	0.024124	-0.004378	-0.00541	
	0.191441	0.013777	-0.005933	-0.006263	
	0.316698	0.038167	-0.001758	-0.005498	
Pos. Cont.	2.823911	0.721758	0.096811	0.025123	

48hr Average					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.241695	0.025356	-0.004023	-0.005724	
Pos. Ctrl.	2.823911	0.721758	0.096811	0.025123	

570/600 vs Time





# 17.Rv.2.3.18.4.WCg.Normoxic

