

Product Information Sheet for NR-48696

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
M. tuberculosis, Strain H37Rv, Irradiated Cells (hypoxic culture)	NR-36493 lot 70004728	17.Rv.2.3.18.4.WCg.Hypoxic	03APR2017
M. tuberculosis, 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 **y-IRRADIATED** CELLS

General Information				
Lot Number: 17.Rv.2.3 Species: M. tuberculosis Strain: H37Rv	.18.4.WCg.Hypox	cic	-	
Growth Conditions:	Medium:# of Fermentors: Inoculation Date SOP # used for I	1 (4L)	Harvest Date:01/31/17	
Wet Weight: 7.6g				
Date irradiated: 03/31/1	7-04/03/17	Ву: <u>ЈВ</u>		
Alamar Blue QC Inforn	nation			
Date Started:04/05/1	7 Date C	hecked:04/0	7/17	
Positive Control: Positive	_x Negative	e		
OD _{positive} = .1 cha	inge: 0.0579			
Sample: Positive1	Negative_x			
OD _{sample} = .1 char Aliquot Information 1 x 7.6 g in 50ml falc				
See graph for dissolved o Culture was allowed to gr		nal 2 days to proc	duce efficient biomass prior to induction	on to hypoxia.
All Bring	May	1/07/17	C. Hehazey	4/7/1
(Research Associate)	,	(daté)	(Laboratory Supervisor)	(date)

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

	Initi	Initial Minus Blank	ank	
	0D.1	10. do	00 .001	OD.0001
	0.0173687	-0.005899	0.0173687 -0.005899 -0.009026 -0.006288	-0.006288
Sample	0.009982	-0.007385	0.009982 -0.007385 -0.007237 -0.020973	-0.020973
	0.0140525	0.0140525 -0.006705 -0.005869	-0.005869	-0.004067
Pos. Cont.	Pos. Cont. 0.0440036 0.014844 0.007873 0.007637	0.014844	0.007873	0.007637

	ul I	Initial Average	Ф	
	0D.1	10. do	OD .01 OD .001 OD .0001	OD.0001
Sample	0.0138011	-0.006663	0.0138011 -0.006663 -0.007377 -0.010443	-0.010443
Pos. Ctrl.	0.0440036 0.014844 0.007873 0.007637	0.014844	0.007873	0.007637

		24111 370/000	000/0		
0.764213	1.244	0.804987	0.763653	1.244 0.804987 0.763653 0.758463 0.757776	0.757776
	1.201738	0.793013	0.763229	0.793013 0.763229 0.757904 0.769944	0.769944
, S	1.196219	0.794764	0.794764 0.760692 0.758401		0.75713
	1.602366	2.686354	1.020387	1.020387 0.801457 0.774483	0.774483

		The second second		
	0D.1	00 .01	OD .001	OD:0001
	0.040773	-0.00056		-0.00575 -0.006438
Sample	0.0288	-0.000985	0.0288 -0.000985 -0.006309 0.005731	0.005731
	0.03055	-0.003522	0.03055 -0.003522 -0.005812 -0.007084	-0.007084
Pos. Cont.	1.922141	0.256174	1.922141 0.256174 0.037244	0.01027

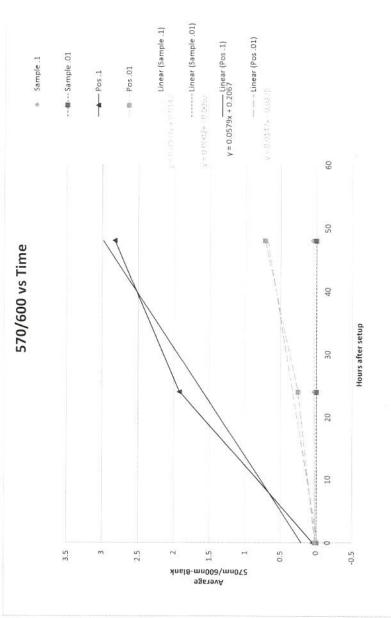
	2	24hr Average	d)	
	0D.1	00 .01	00 .001	OD.0001
Sample	0.033374	0.033374 -0.001689 -0.005957 -0.002597	-0.005957	-0.002597
Pos. Ctrl.	1.922141	1.922141 0.256174 0.037244	0.037244	0.01027

		48 hr 570/600	009/02		
1.778906	0.778906 1.506944 0.835766 0.780209 0.770583 0.770777	0.835766	0.780209	0.770583	0.770774
	1.449892	1.449892 0.820922 0.780686 0.771403	0.780686	0.771403	3 0.79096
	1.458459	1.458459 0.823024 0.777982 0.71978 0.770446	0.777982	0.771978	0.770446
	1.555654	1.555654 3.602817 1.500664 0.875717 0.804029	1.500664	0.875717	0.804029

	481	48hr Minus Blank	ank	
	0D .1	10. do	100. do	OD.0001
	0.05686	0.001303	-0.008324	-0.008133
Sample	0.042016	0.00178	0.00178 -0.007504	0.012054
	0.044118	0.044118 -0.000925	-0.006928	-0.00846
Pos. Cont.	2.823911	2.823911 0.721758	0.096811	0.025123

	4	48hr Average	Б	
	0D.1	10. do	00 .001	OD.0001
Sample	0.047664	0.000719	0.000719 -0.007585	-0.001513
Pos. Ctrl.	2.823911	0.721758	0.096811	0.025123

	Cample 1	Sample 1 Sample Of Dor 1	Dor 1	Dar 01
0	0 0013801	O OOGGG	0.0040004	_
	0.013001		0.044004	
57	24 0.033374	-0.001689	1.922141	0.256174
48	48 0.047664	0.0007193	2.823911	0.721758



312:00 234:00 156.00 78:00 19.0 37.0 0.0 DO_2M Agit 2 DO_2M PH_2M Temp_2 [BEG] 0.0 0.0 -100.0 Temp_2 100.0-1 90.0 0.09 20.0 40.0 Agit 2 DO 2M PH 2M 200.0 7 100.0 7 14.0 7 11.2 + 60 44 (D) (g) 00-04 PV: 1047 SP: 1050 Output: 24.0 80.0 40.0 20.0 - 0.08 Setup: PV: SP: 1400-120.0-180.0-160.0

17.Rv.2.3.18.4.WCg.Hypoxic

WORK SHEET FOR Y-IRRADIATED CELLS

General Information			
Lot Number: 17.Rv.2.3 Species: M. tuberculosis Strain: H37Rv	.18.4.WCg.Normoxic	_	
Growth Conditions:	Medium: GAS # of Fermentors: 1 (4L) Inoculation Date: 03/18/17 SOP # used for Harvest: PP040		
Wet Weight: 6.0g	=		
Date irradiated: 03/31/1	17-04/13/17 By: <u>JB</u>		
Alamar Blue QC Inforn	nation		
Date Started:04/05/1	Date Checked:04/0	7/17	
Positive Control: Positive	xNegative		
$OD_{positive} = .1$ cha	inge: 0.0579		
Sample: Positive	Negative_x		
OD _{sample} = .1 char Aliquot Information 1 x 6.0 g in 50ml falo			
See graph for dissolved o	xygen (DO) log.		
(Research Associate)	// 04/1/17 (date)	C. Keliceffy (Laboratory Supervisor)	4/11/17 (date)

		Initial 0 hr 570/600	270/600		
748414	0.881443	0.748414 0.881443 0.7720307 0.755361 0.748252 0.745236	0.755361	0.748252	0.745236
	0.935006	0.935006 0.7671103 0.754195 0.746884 0.747012	0.754195	0.746884	0.747012
	0.938936	0.938936 0.7708895	0.757282	0.748503	0.748466
	0.941876	0.941876 0.7924171 0.763258 0.756286	0.763258	0.756286	0.75605

	Initio	Initial Minus Blank	ank	
	0D.1	10.00	0D .001	OD.000
	0.0236171	0.006947	-0.000162	-0.0031
Sample	0.0186968	0.005782	-0.00153	-0.0014
	0.022476	0.022476 0.008868	8.95E-05	5.28E-(
Pos. Cont.	0.0440036 0.014844	0.014844	0.007873	0.0076

	Initia	Initial Minus Blank	ank	
	0D.1	10. do	0D .001	OD.0001
	0.0236171	0.006947	0.006947 -0.000162	-0.003178
Sample	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
	Ē	Initial Average	Q.	
	0D.1	10' do	00 .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 .1 Sample .01 Pos .1	Pos.1	Pos .01
0	0 0.021597	0.007199	0.044004 0.014844	0.014844
24	0.16366	0.16366 0.0184075		1.922141 0.256174
48	0.241695	0.241695 0.0253558		2.823911 0.721758

		24hr 570/600	009/02		
764213	0.764213 1.716738	0.912659 0.782975 0.762172	0.782975	0.762172	0.761417
	1.844673	0.892611 0.773953 0.759641	0.773953	0.759641	0.76011
	1.595358	0.978351	0.790934 0.761949	0.761949	0.75907
	1.602366	2.686354 1.020387 0.801457 0.774483	1.020387	0.801457	0.774483

	241	24hr Minus Blank	ınk	
	0D .1	10. do	100. do	OD.0001
	0.148446	0.018761	-0.002041	-0.002797
Sample	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
	2	24hr Average		
	0D.1	10. GO	00 .001	OD:0001
Sample	0.16366	0.018407	-0.002959	-0.004014
Pos. Ctrl.	1.922141	0.256174	1.922141 0.256174 0.037244	0.01027

	2	24hr Average	d)	
	0D.1	0D .01	00 .001	OD:0001
ample	0.16366	0.018407	0.018407 -0.002959	-0.004014
os. Ctrl.	1.922141	0.256174	0.037244	0.01027

		48 hr 570/600	009/02		
0.778906	0.778906 1.376013	0.995851	0.995851 0.80303 0.774528 0.773496	0.774528	0.773496
	1.500766	0.970348	0.970348 0.792683 0.772973 0.772643	0.772973	0.772643
	1.321631	1.095604	1.095604 0.817073 0.777148 0.773408	0.777148	0.773408
	1.555654	3.602817	1.555654 3.602817 1.500664 0.875717 0.804029	0.875717	0.804029

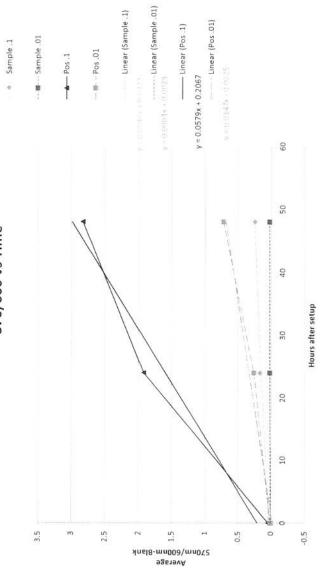
Sample	0.191441 0.013777	0.013777	-0.005933	-0.006263
	0.316698	0.038167	-0.001758	-0.005498
Pos. Cont.	2.823911	0.721758	0.096811	0.025123

0.216944 0.024124 -0.004378 -0.00541 48hr Minus Blank 1 | OD .01 | OD .001 | OD.0001

0D.1

	4	48hr Average	0)	
	0D.1	10. dO	100. do	OD:0001
Sample	0.241695 (3.025356	-0.004023	-0.005724
Pos. Ctrl.	2.823911	0.721758	0.096811	0.025123

Fime
VS
,600
570/



248:00 186.00 124:00 62:00 .255.1 37.0 0.0 7.8 Mt_00 Agk 1 DO_IM PH_IM Temp_1 TILL 35.0 .100.0 Temp_1 80.0 0.09 40.0 20.0 200.01 100.07 140 T 12 -Agit_1M 100 100 Œ kiri 28 Setup: Agii PV: 00 SP: 1050 80.0 - 0'09 Output: 0.0 40.0 20.0 180.0-160.0-120.0-140.0-

17.Rv.2.3.18.4.WCg.Normoxic