

Mycobacterium tuberculosis*, Strain H37Rv, Gamma-Irradiated Whole Cells Kit Containing Hypoxic and Normoxic Cultures*Catalog No. NR-48696**

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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 70082871	26.Rv.2.2.12.8.WCg.Hypoxic	26MAR2026
<i>M. tuberculosis</i> , Strain H37Rv, Irradiated Cells (normoxic culture)	NR-36494 lot 70082872	26.Rv.2.2.27.8.WCg.Normoxic	20MAR2026

Lot: 70082873

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for bulk lots 26.Rv.2.2.12.8.WCg.Hypoxic and 26.Rv.2.2.27.8.WCg.Normoxic is attached. The kit was assembled by BEI Resources on 07MAY2026.

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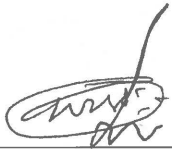
Quality Control Work Sheet

Microbiology and Infectious Diseases Biological Research Repository (MID-BRR)

Item No.	γ-Irradiated Whole Cells		Category	Whole Cells	
General Information					
Species	Strain	CSU Lot Number	BEI Catalog Number	BEI Lot Number	
Mycobacterium tuberculosis	H37Rv	26.Rv.2.2.12.8.WCg.Hypoxic	NR-36493	70082871	
Growth Conditions					
Process Start Date	01/15/2026				
Growth Medium	Glycerol Alanine Salts (GAS)				
Inoculation Date	Harvest Date	Fernbach Flasks/Fermentor	Total Culture Volume	Wet Weight(g)	
02/12/2026	02/26/2026	Fermentor	3.5L	17.6	
SOPs Used	PP040.3				
Notebook/Pages	NB18 83-84, 86-105, NB19 2-11, 18				
Additional Notes	See graph for growth conditions log.				
Inactivation Process: γ-Irradiation conditions					
Irradiator Operator	Date Irradiated	Standardized Dose/Sample		Dose Rate	
J Bell	03/26/2026	2.4 Mrads		480 rads/min	
Sterility Testing (Alamar Blue)					
Date Started	03/31/2026	Date Completed	04/02/2026		
Positive Sample Control	Positive		X	Negative	
Test Sample	Positive			Negative	X
SOPs Used	PP004.2, SP034.2				
Notebook/Pages	NB19 19-23				
Additional Notes	See graph for Alamar Blue assay results.				

Aliquot Information

*Aliquot information reflects those made at the time of QC. Bulk aliquots will be broken down as needed.

	
4-24-26	04/24/2026
Research Associate	Lab. Supervisor
Date	Date

Initial 0 hr 570/600					
raw	3-31-26.	0.79	0.77	0.77	0.76
	26.Rv.2.2.12.8.WCg.Hypoxic	0.80	0.78	0.77	0.76
		0.80	0.77	0.77	0.78
		0.89	0.81	0.79	0.79

24hr 570/600					
	4-1-26.	0.77	0.74	0.75	0.76
		0.76	0.76	0.75	0.75
		0.78	0.75	0.75	0.75
		1.75	2.73	0.77	0.76

48 hr 570/600					
	4-2-26.	0.79	0.75	0.76	0.75
		0.78	0.76	0.76	0.75
		0.79	0.76	0.75	0.75
		1.60	2.79	0.77	0.76

Initial Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.02	0.00	0.00	-0.01	
	0.03	0.01	0.00	-0.01	
	0.03	0.00	0.00	0.00	
Pos. Cont.	0.12	0.04	0.02	0.02	

24hr Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.02	-0.02	0.00	0.00	
	0.01	0.00	0.00	0.00	
	0.02	-0.01	-0.01	-0.01	
Pos. Cont.	0.99	1.97	0.01	0.01	

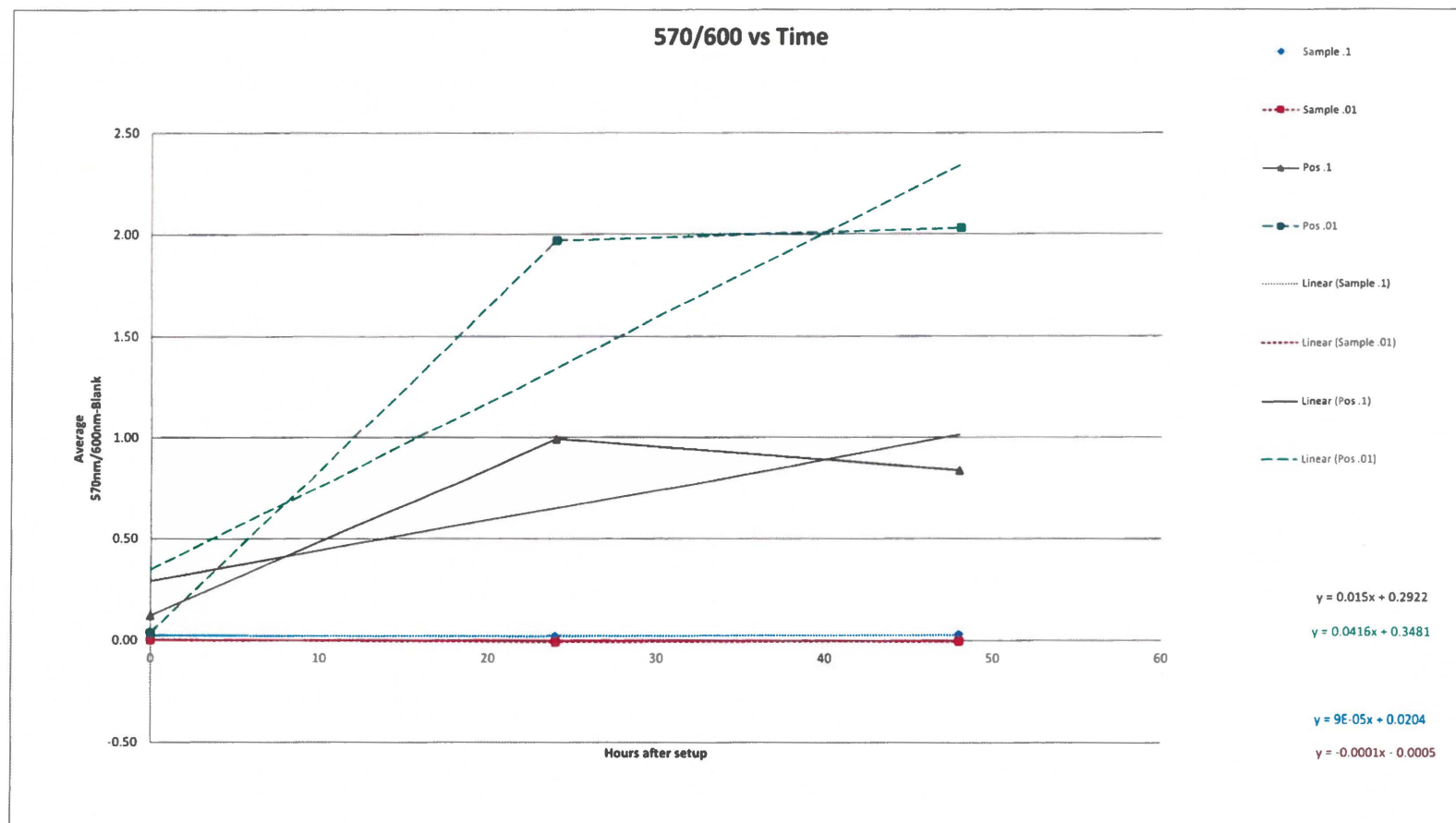
48hr Minus Blank					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.03	-0.01	0.00	-0.01	
	0.02	0.00	0.00	-0.01	
	0.03	0.00	-0.01	-0.01	
Pos. Cont.	0.84	2.03	0.01	0.00	

Initial Average					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.02	0.00	0.00	-0.01	
Pos. Ctrl.	0.12	0.04	0.02	0.02	

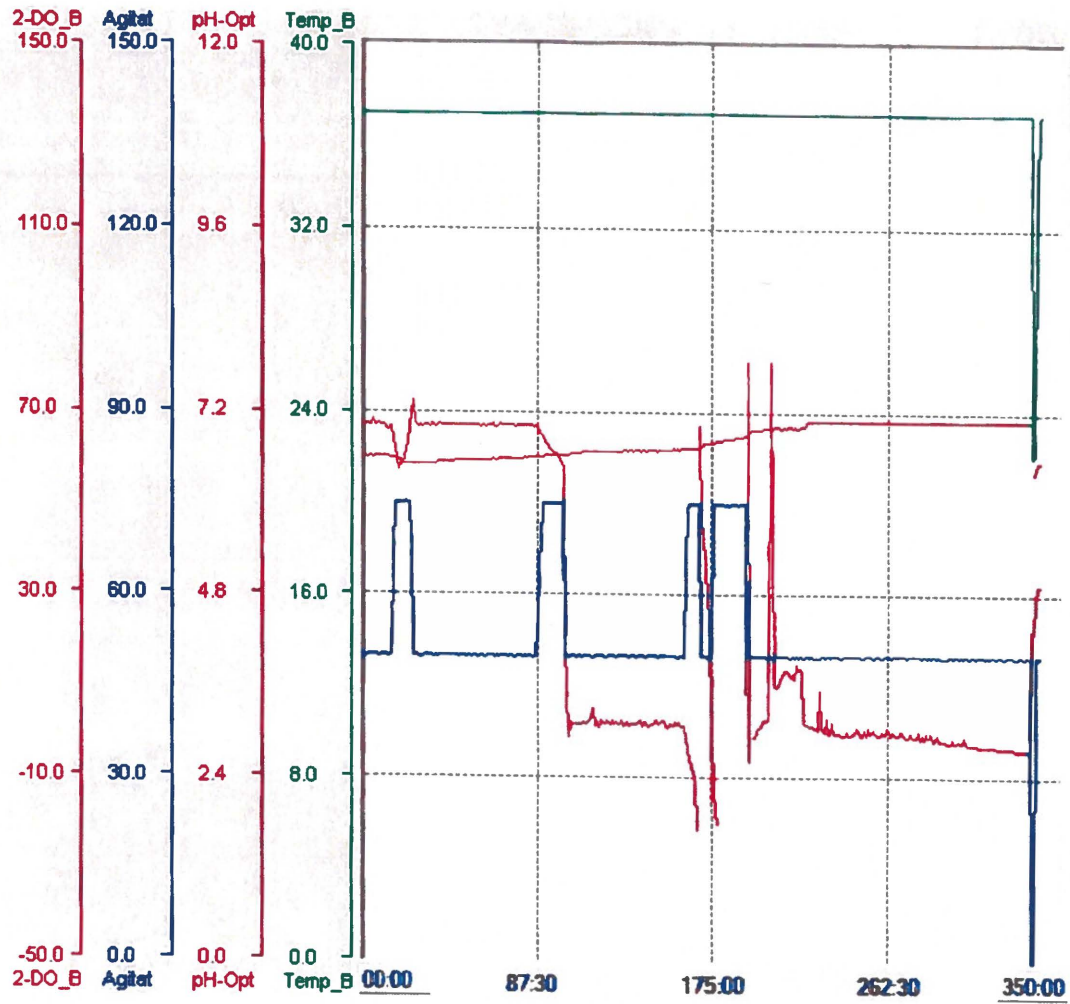
24hr Average					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.02	-0.01	0.00	0.00	
Pos. Ctrl.	0.99	1.97	0.01	0.01	

48hr Average					
	OD .1	OD .01	OD .001	OD.0001	
Sample	0.03	0.00	0.00	-0.01	
Pos. Ctrl.	0.84	2.03	0.01	0.00	

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.02	0.00	0.12	0.04
24	0.02	-0.01	0.99	1.97
48	0.03	0.00	0.84	2.03

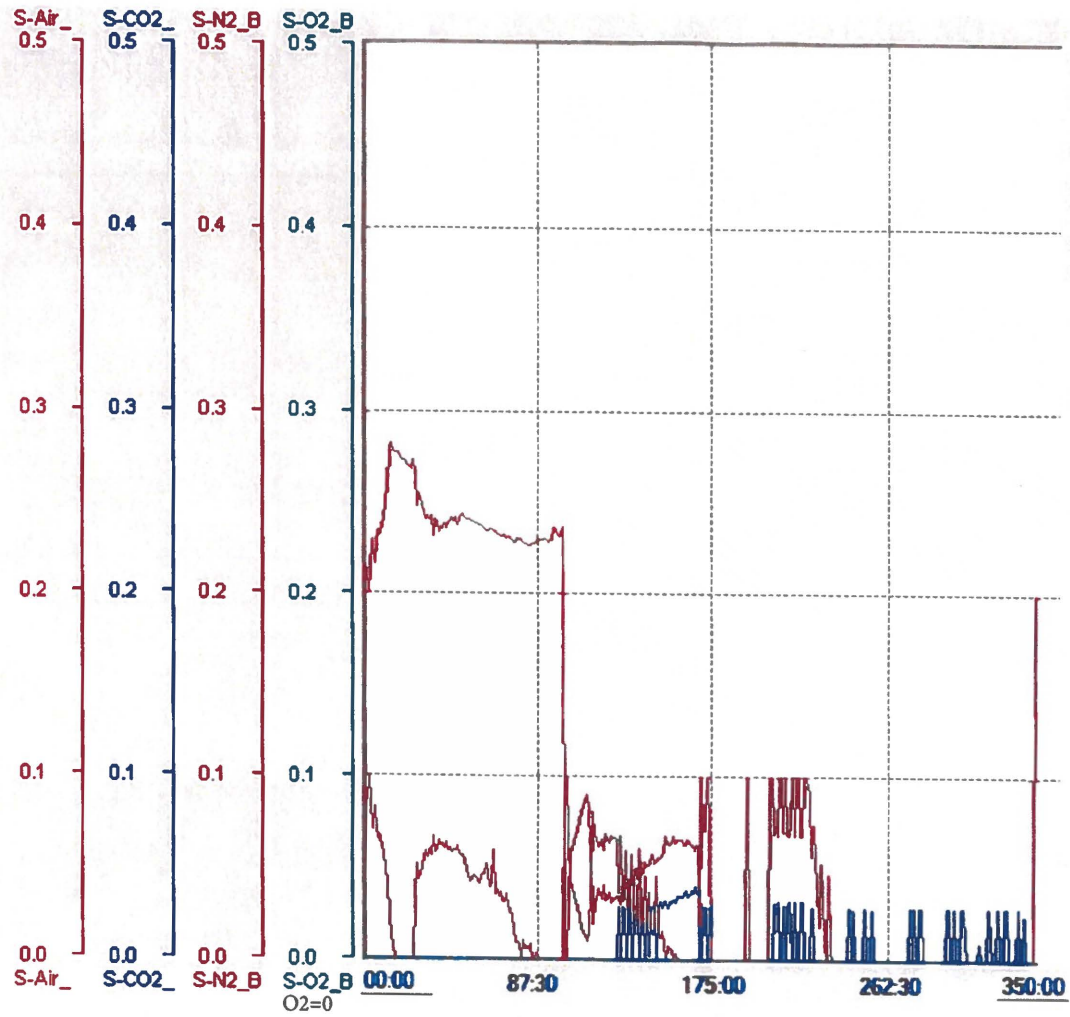


Batch: 021226 - Trend1



^DO probe electrolyte replaced due to dip likely caused by drying out, air input turned off due to instability in DO readout to maintain hypoxic conditions

Batch: 021226 - Trend1





Quality Control Work Sheet

Microbiology and Infectious Diseases Biological Research Repository (MID-BRR)

Item No.	γ-Irradiated Whole Cells	Category	Whole Cells		
General Information					
Species	Strain	CSU Lot Number	BEI Catalog Number	BEI Lot Number	
Mycobacterium tuberculosis	H37Rv	26.Rv.2.2.27.8.WCg.Normoxic	NR-36494	70082872	
Growth Conditions					
Process Start Date	01/30/2026				
Growth Medium	Glycerol Alanine Salts (GAS)				
Inoculation Date	Harvest Date	Fernbach Flasks/Fermentor	Total Culture Volume	Wet Weight(g)	
02/27/2026	03/09/2026	Fermentor	3.5L	17.8	
SOPs Used	PP040.3				
Notebook/Pages	NB18 83-84, 86-105, NB19 11-8				
Additional Notes	See graph for growth conditions log.				
Inactivation Process: γ-Irradiation conditions					
Irradiator Operator	Date Irradiated	Standardized Dose/Sample		Dose Rate	
J Bell	03/20/2026	2.4 Mrads		480 rads/min	
Sterility Testing (Alamar Blue)					
Date Started	03/31/2026	Date Completed	04/02/2026		
Positive Sample Control	Positive		X	Negative	
Test Sample	Positive			Negative	X
SOPs Used	PP004.2, SP034.2				
Notebook/Pages	NB19 19-23				
Additional Notes	See graph for Alamar Blue assay results.				

Aliquot Information

*Aliquot information reflects those made at the time of QC. Bulk aliquots will be broken down as needed.

 Research Associate

4-24-26

 Date

 Lab. Supervisor

04/24/2026

 Date

Initial 0 hr 570/600					
raw	3-31-26.	0.81	0.77	0.76	0.77
26.Rv.2.2.27.8.WCg.Normox		0.79	0.77	0.77	0.77
		0.80	0.78	0.78	0.77
		0.89	0.81	0.79	0.79

24hr 570/600				
	4-1-26.	0.80	0.76	0.75
		0.80	0.76	0.75
		0.79	0.75	0.75
		1.75	2.73	0.77

48 hr 570/600				
	4-2-26.	0.82	0.76	0.76
		0.81	0.77	0.76
		0.81	0.76	0.76
		1.60	2.79	0.77

Initial Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.03	0.00	-0.01	0.00
	0.02	0.00	0.00	0.00
	0.02	0.00	0.00	0.00
Pos. Cont.	0.12	0.04	0.02	0.02

24hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.00	0.00	-0.01
	0.04	0.00	0.00	0.00
	0.04	-0.01	0.00	0.00
Pos. Cont.	0.99	1.97	0.01	0.01

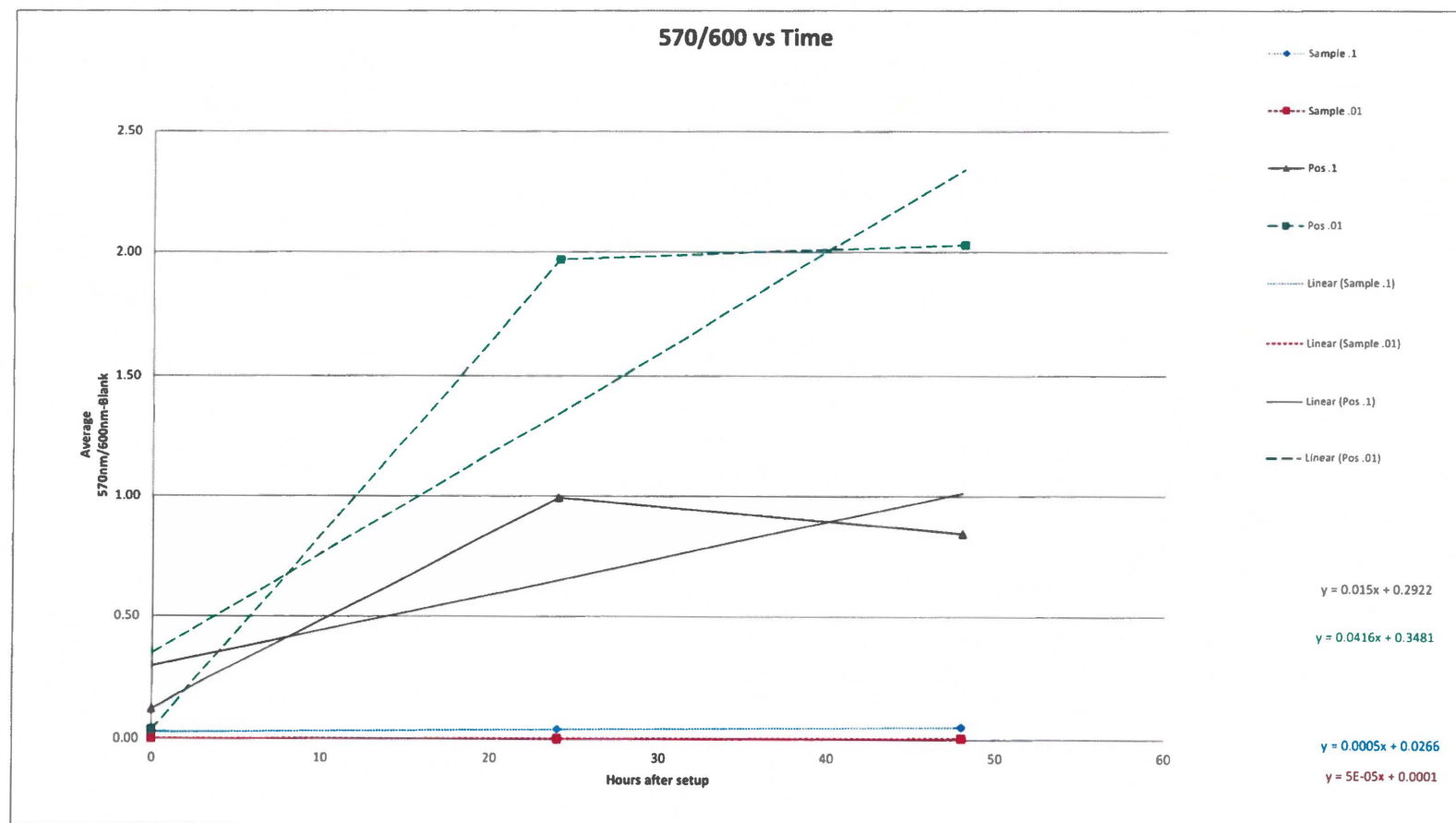
48hr Minus Blank				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.06	0.00	0.00	0.00
	0.05	0.01	0.00	0.00
	0.05	0.00	0.00	0.00
Pos. Cont.	0.84	2.03	0.01	0.00

Initial Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.03	0.00	0.00	0.00
Pos. Ctrl.	0.12	0.04	0.02	0.02

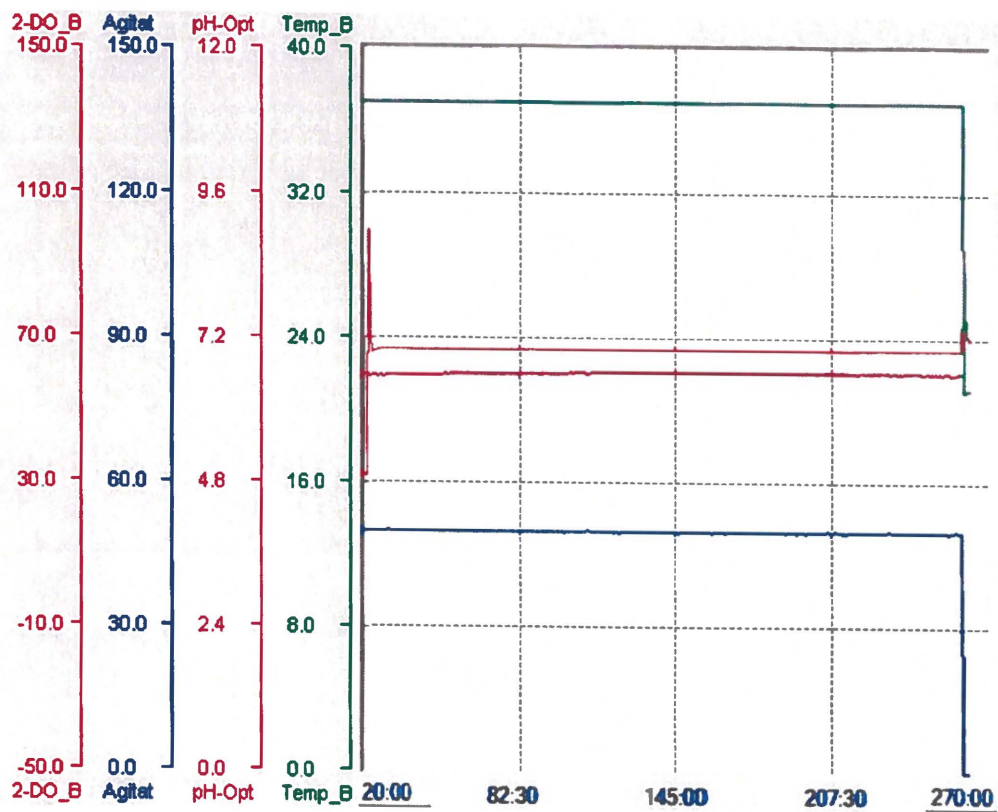
24hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.04	0.00	0.00	0.00
Pos. Ctrl.	0.99	1.97	0.01	0.01

48hr Average				
	OD .1	OD .01	OD .001	OD.0001
Sample	0.05	0.00	0.00	0.00
Pos. Ctrl.	0.84	2.03	0.01	0.00

	Sample .1	Sample .01	Pos .1	Pos .01
0	0.03	0.00	0.12	0.04
24	0.04	0.00	0.99	1.97
48	0.05	0.00	0.84	2.03



Batch: 022626 - Trend1



Batch: 022626 - Trend1

