

## PLANKTONIC GROWTH CURVES

[illegible]

BUIOFILM GROWTH CURVES								
BW25113								
	time	CFU/cm2	N/N0	log10(N/N0)		time	avarage	stand dev
replicate 1	0	2,17E+08	1,00E+00	0		0	0,00	0,00
replicate 2	0	2,17E+08	1,00E+00	0,00		5	0,86	0,06
replicate 3	0	1,68E+08	7,75E-01	-0,11		12	2,10	0,13
replicate 1	5	1,63E+09	7,51E+00	0,88		18	2,34	0,70
replicate 2	5	1,83E+09	8,45E+00	0,93		24	2,47	0,04
replicate 3	5	1,29E+09	5,95E+00	0,77		36	3,07	0,11
replicate 1	12	1,79E+10	8,26E+01	1,92		48	3,96	0,03
replicate 2	12	3,37E+10	1,55E+02	2,19		60	8,86	0,16
replicate 3	12	3,42E+10	1,58E+02	2,20		72	9,76	0,03
replicate 1	18	1,46E+10	6,72E+01	1,83				
replicate 2	18	1,60E+10	7,36E+01	1,87				
replicate 3	18	4,64E+11	2,14E+03	3,33				
replicate 1	24	6,52E+10	3,00E+02	2,48				
replicate 2	24	5,64E+10	2,60E+02	2,41				
replicate 3	24	6,97E+10	3,21E+02	2,51				
replicate 1	36	1,83E+11	8,42E+02	2,93				
replicate 2	36	3,19E+11	1,47E+03	3,17				
replicate 3	36	2,93E+11	1,35E+03	3,13				
replicate 1	48	1,90E+12	8,76E+03	3,94				
replicate 2	48	2,21E+12	1,02E+04	4,01				
replicate 3	48	1,90E+12	8,76E+03	3,94				
replicate 1	60	2,28E+17	1,05E+09	9,02				
replicate 2	60	1,08E+17	5,00E+08	8,70				
replicate 1	72	1,15E+18	5,31E+09	9,72				
replicate 2	72	1,36E+18	6,28E+09	9,80				
replicate 3	72	1,22E+18	5,63E+09	9,75				
BW25113-Δwrb A								
	time	CFU/cm2	N/N0	log10(N/N0)		time	avarage	stand dev
replicate 1	0	9,37E+07	1,00E+00	0,00		0	-0,03	0,03
replicate 2	0	8,06E+07	8,60E-01	-0,07		5	1,20	0,09
replicate 3	0	1,61E+08	1,72E+00	0,23		12	3,79	0,08
replicate 1	5	1,22E+09	1,30E+01	1,11		18	6,24	0,04
replicate 2	5	1,98E+09	2,11E+01	1,32		24	5,07	0,08
replicate 3	5	1,40E+09	1,49E+01	1,17		36	5,85	0,00
replicate 1	12	4,77E+11	5,09E+03	3,71		48	6,33	0,00
replicate 2	12	6,91E+11	7,38E+03	3,87		60	7,51	0,13
replicate 3	12					72	7,71	0,04
replicate 1	18	1,71E+14	1,83E+06	6,26				
replicate 2	18	1,43E+14	1,52E+06	6,18				
replicate 3	18	1,75E+14	1,87E+06	6,27				
replicate 1	24	1,07E+13	1,14E+05	5,06				
replicate 2	24	1,39E+13	1,48E+05	5,17				
replicate 3	24	8,83E+12	9,42E+04	4,97				
replicate 1	36	6,58E+13	7,03E+05	5,85				
replicate 2	36	6,72E+13	7,17E+05	5,86				
replicate 3	36							
replicate 1	48	2,02E+14	2,15E+06	6,33				
replicate 2	48	2,00E+14	2,13E+06	6,33				
replicate 3	48							
replicate 1	60	4,12E+15	4,40E+07	7,64				
replicate 2	60	2,24E+15	2,39E+07	7,38				
replicate 1	72	5,13E+15	5,48E+07	7,74				
replicate 2	72	5,22E+15	5,57E+07	7,75				
replicate 3	72	4,16E+15	4,43E+07	7,65				

BIOFILM THICKNESS				
BW25113 (um)			BW25113-ΔwrbA (um)	
replicate 1	228		replicate 1	149
replicate 2	224		replicate 2	115
replicate 3	247		replicate 3	133
replicate 1	272		replicate 1	108
replicate 2	245		replicate 2	124
replicate 3	240		replicate 3	173
replicate 1	288		replicate 1	154
replicate 2	255		replicate 2	151
replicate 3	321		replicate 3	104
replicate 3	297		replicate 3	135
avarage	<b>261,7</b>		avarage	<b>134,6</b>
st. dev	<b>31,8470302</b>		st. dev	<b>22,2870166</b>

OXIDATIVE STRESS				
48h				
Relative fluorescence in 150ul cell suspension				
	replicate 1			
BW25113	14185,25	14622,25	15921,25	15075,25
BW25113-ΔwrbA	18492,25	18524,25	18737,25	18970,25
	replicate 2			
	17079,25	17266,25	16941,25	17325,25
	11996,25	12041,25	12005,25	12278,25
	replicate 3			
	16314,25	17395,25	17345,25	17253,25
	18698,25	18536,25	18597,25	20602,25
	n. cells in 150 ul			
	3,0536E+15			
	8,247E+14			
Relative fluorescence/cells				
	replicate 1			
BW25113	4,6455E-12	4,7886E-12	5,214E-12	4,9369E-12
BW25113-ΔwrbA	2,2423E-11	2,2462E-11	2,272E-11	2,3003E-11
	replicate 2			
	5,5932E-12	5,6544E-12	5,548E-12	5,6738E-12
	1,4546E-11	1,4601E-11	1,4557E-11	1,4888E-11
	replicate 3			
	5,3427E-12	5,6967E-12	5,6803E-12	5,6502E-12
	2,2673E-11	2,2476E-11	2,255E-11	2,4982E-11
	Average	sd	err%	
	5,3687E-12	3,8279E-13	7,13014834	
	2,0157E-11	4,1264E-12	20,4715673	
60h				
Relative fluorescence in 150ul cell suspension				
	replicate 1			
BW25113	19740,25	20068,25	19980,25	
BW25113-ΔwrbA	22077,25	21726,25	21589,25	21622,25
	replicate 2			
	20038,25	20156,25	20301,25	20271,25
	20686,25	20681,25	20631,25	20768,25
	replicate 3			
	22960,25	22866,25	22889,25	21213,25
	22537,25	22578,25	22534,25	21883,25
	n. cells in 150 ul			
	6,5445E+15			
	7,4364E+17			
Relative fluorescence/cells				
	replicate 1			
BW25113	3,0163E-12	3,0664E-12	3,053E-12	
BW25113-ΔwrbA	2,9688E-14	2,9216E-14	2,9032E-14	2,9076E-14
	replicate 2			
	3,0618E-12	3,0799E-12	3,102E-12	3,0974E-12
	2,7817E-14	2,7811E-14	2,7743E-14	2,7928E-14
	replicate 3			
	3,5083E-12	3,4939E-12	3,4975E-12	3,2414E-12
	3,0306E-14	3,0362E-14	3,0302E-14	2,9427E-14
	Average	sd	err%	
	3,2016E-12	1,9962E-13	6,23494873	
	2,9059E-14	1,021E-15	3,51347041	

CATALASE ACTIVITY					
BW25113 48h (catalase activity U)					
	repl. 1	repl. 2	repl 3	avarage	st. dev
HPH	113	133	107	118	14
HPI	251	179	297	242	59
BW25113 60h (catalase activity U)					
	repl. 1	repl. 2	repl 3	avarage	st. dev
HPH	433	456	387	425	35
HPI	45	108	192	115	74
BW25113- $\Delta$ wrbA 48h (catalase activity U)					
	repl. 1	repl. 2	repl 3	avarage	st. dev
HPH	283	324	272	293	27
HPI	237	317	291	282	41
BW25113- $\Delta$ wrbA 60h (catalase activity U)					
	repl. 1	repl. 2	repl 3	avarage	st. dev
HPH	598	632	580	603	26
HPI	121	164	250	178	66

SUSCEPTIBILITY TO BIOCIDES				
BW25113 (log10 reduction)				
	repl 1	repl 2	avarage	st. dev
48h_HP	0,70733357	0,6392018	0,67326768	0,04817644
48h_HP+GI	0,68557018	0,5658763	0,62572324	0,08463636
48h_CBA	1,16154554	1,70614859	1,43384707	0,38509251
48h_CBA+GI	0,77579095	0,65259	0,71419047	0,08711623
60h_HP	0,65851719	0,39858676	0,52855198	0,18379857
60h_HP+GI	1,20011624	1,30623119	1,25317372	0,0750346
60h_CBA	1,11367166	0,9431405	1,02840608	0,12058374
60h_CBA+GI	0,99192237	0,6925549	0,84223864	0,21168477
BW25113-ΔwrbA (log10 reduction)				
	replicate 1	replicae 2	avarage	st. dev
48h_HP	2,99323577	3,10389613	3,04856595	0,07824869
48h_HP+GI	1,68052002	1,4531541	1,56683706	0,16077198
48h_CBA	1,66171645	1,51373537	1,58772591	0,10463843
48h_CBA+GI	1,3022347	0,96642417	1,13432943	0,2374539
60h_HP	1,79034139	1,98871899	1,88953019	0,14027414
60h_HP+GI	1,34207383	1,36759599	1,35483491	0,01804689
60h_CBA	0,93029227	0,98871899	0,95950563	0,04131393
60h_CBA+GI	0,95931291	0,88226366	0,92078828	0,05448205

NADPH:p-BQ oxidoreductase activity (U/mg) of <i>E. coli</i> crude extracts					
	replicates	BW25113		replicates	BW25113- $\Delta$ wrb A
	1_1	25,48		1_1	5,83
	1_2	25,61		1_2	5,45
	1_3	20,23		1_3	6,23
	1_4	24,92		1_4	7,19
	2_1	19,88		2_1	6,91
	2_2	21,53		2_2	9,22
	2_3	17,42		2_3	9,61
	3_1	20,40		2_4	11,49
	3_2	22,03		3_1	6,00
	3_3	23,96		3_2	6,38
	3_4	22,71		3_3	5,23
	3_5	21,67		3_4	5,63
				4_1	4,93
				4_2	5,89
				4_3	4,42
				4_4	5,49
				4_5	5,67
				5_1	5,54
				5_2	4,98
				5_3	10,58
				5_4	8,03
				5_5	5,47
				6_1	5,91
				6_2	5,09
				6_3	6,29
				6_4	5,26
				6_5	5,68
average		22,15			6,46
sd		2,51			1,79
Each datum arise from an independent assay reaction					

NADPH:DCPIP oxidoreductase activity (U/mg) of <i>E. coli</i> crude extracts					
	replicates	<b>BW25113</b>		replicates	<b>BW25113-<math>\Delta</math>wrb A</b>
	1_1	2,27		1_1	1,49
	1_2	2,62		1_2	2,38
	1_3	3,22		1_3	1,28
	2_1	3,12		2_1	2,05
	2_2	5,54		2_2	2,01
	3_1	2,86		3_1	0,08
	3_2	3,33		3_2	1,43
	3_3	4,23		3_3	1,59
	3_4	3,00		4_1	2,17
				4_2	2,53
				4_3	2,04
				4_4	1,95
				5_1	1,60
				5_2	1,22
				5_3	1,52
				5_4	1,17
				6_1	1,57
				6_2	1,55
				6_3	1,57
				6_4	1,92
average		3,35			1,66
sd		0,98			0,53