	LUDOX-HS4C	H2O
Replicate 1	0.0428	0.0318
Replicate 2	0.0422	0.0315
Replicate 3	0.0436	0.0300
Replicate 4	0.0442	0.0322
Arith. Mean	0.0432	0.031375
Corrected Abs600	0.011825	
Reference OD600	0.0425	
OD600/Abs600	3.5940803	

Enter Abs600 absorbance measurements into blue cells

Gold cells are calculated

Corrected value is particle-only contribution

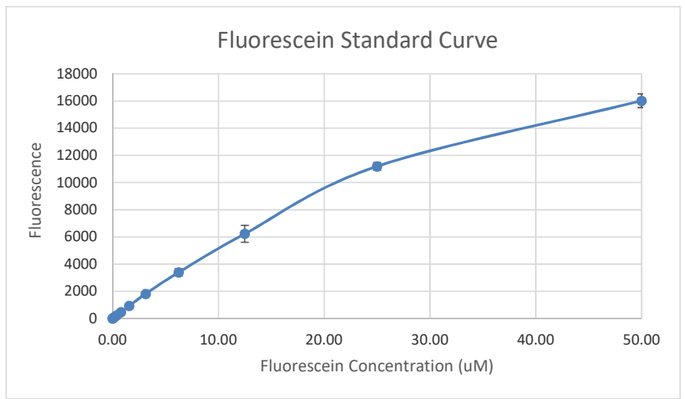
Reference value is for 100uL of LUDOX-HS40 in a well of a standard 96-well flat-bottom plate

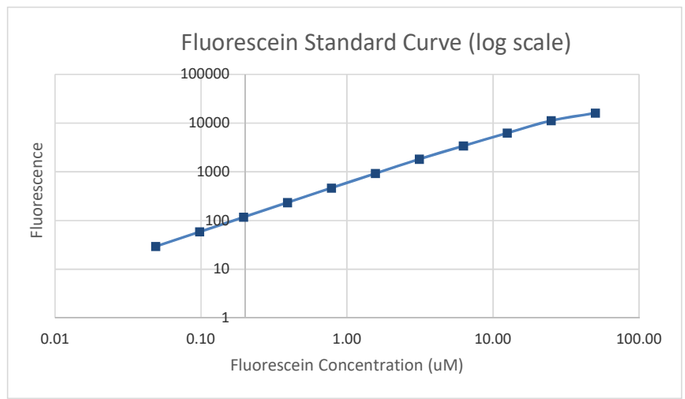
*Corrected value = scaling factor * measured value*

uM Fluorescein	50.00	25	12.5	6.25	3.125	1.5625	0.78125	0.390625	0.195313	0.097656	0.048828	0
Replicate 1	15772	10810	6341	3403	1771	911	455	228	115	59	29	1
Replicate 2	16240	11472	5327	3039	1804	923	475	242	118	60	30	1
Replicate 3	15466	11317	6707	3691	1838	939	468	235	121	59	29	1
Replicate 4	16597	11176	6549	3468	1851	931	464	233	116	57	29	0
Arith. Mean	16019	11193.75	6231	3400.25	1816	926	465.5	234.5	117.5	58.75	29.25	0.75
Arith. Std.Dev.	499.9142	282.9563	621.025	270.5764	35.95367	11.94432	8.346656	5.802298	2.645751	1.258306	0.5	0.5

Enter fluorescence measurements into blue cells
Gold cells are calculated

Values measured are fluorescence from 100uL of X uM fluorescein solution





Values should form a straight line on both linear and log scale
Slope should be 1:1
Common problems:
** Consistent pipetting error --> log graph is a straight line but not 1:1 slope*
** Oversaturated detector --> low concentrations linear, but high concentrations saturate or fall*

uM Fluorescein/a.u.	50.00	25	12.5	6.25	3.125	1.5625	0.78125	0.390625	0.195313	0.097656	0.048828
Mean um Fluorescein	0.003121	0.002233	0.002006	0.001838	0.001721	0.001687	0.001678	0.001666	0.001662	0.001662	0.001669
Mean of med-high levels:		0.001897									

Final scaling level determined from medium-high points likely to be less impacted by saturation or pipetting error
If needed, you can shift which points are used, but it is likely better to correct instrument settings and protocol.

Raw Plate Readings

If you followed the recommended plate layout:
Copy fluorescence and Abs600 measurements from your plate reader into blue cells
They will automatically propagate into the correct locations in the Fluorescence Measurement Sheet

Fluorescence Raw Readings:

Hour 0:	Neg. Contro	Pos. Contro	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	16	27	92	47	16	25	18	15	14
Colony 1, Replicate 2	16	29	84	47	16	25	18	17	15
Colony 1, Replicate 3	16	30	99	50	17	27	19	17	17
Colony 1, Replicate 4	16	29	99	49	18	27	19	17	17
Colony 2, Replicate 1	16	28	82	41	16	27	18	16	16
Colony 2, Replicate 2	16	28	79	42	16	26	18	16	16
Colony 2, Replicate 3	15	26	81	40	16	26	18	16	15
Colony 2, Replicate 4	15	26	79	41	15	25	18	15	15

Hour 2:	Neg. Contro	Pos. Contro	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	14	41	73	75	14	48	28	15	15
Colony 1, Replicate 2	13	43	73	74	16	50	29	15	14
Colony 1, Replicate 3	13	47	79	77	17	50	31	15	14
Colony 1, Replicate 4	15	45	81	77	17	52	30	16	15
Colony 2, Replicate 1	14	43	66	68	15	45	27	15	15
Colony 2, Replicate 2	15	43	66	69	16	45	28	15	14
Colony 2, Replicate 3	13	43	67	68	16	45	28	14	14
Colony 2, Replicate 4	15	42	62	66	16	43	27	15	15

Hour 4:	Neg. Contro	Pos. Contro	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	20	128	133	189	22	141	51	20	17
Colony 1, Replicate 2	17	131	119	177	21	143	55	20	16
Colony 1, Replicate 3	19	134	139	200	22	144	55	21	17
Colony 1, Replicate 4	20	133	138	196	22	150	55	20	17
Colony 2, Replicate 1	19	105	99	163	22	139	44	20	18
Colony 2, Replicate 2	20	99	96	160	22	139	45	22	18
Colony 2, Replicate 3	18	103	96	159	23	137	43	21	17
Colony 2, Replicate 4	20	101	93	155	22	131	42	20	17

Hour 6:	Neg. Contro	Pos. Contro	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	17	124	125	177	20	128	42	17	13
Colony 1, Replicate 2	16	126	121	175	20	133	44	19	13
Colony 1, Replicate 3	16	136	132	182	20	138	46	19	15
Colony 1, Replicate 4	18	138	130	190	20	141	46	18	14
Colony 2, Replicate 1	17	123	88	163	19	142	37	17	14
Colony 2, Replicate 2	15	115	87	170	20	138	35	17	13
Colony 2, Replicate 3	16	121	90	174	19	142	35	17	12
Colony 2, Replicate 4	17	116	83	160	19	139	34	18	14

Abs600 Raw Readings:

Hour 0:	Neg. Contro	Pos. Control	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	0.0671	0.0679	0.0725	0.0694	0.0704	0.0633	0.0626	0.0653	0.0401
Colony 1, Replicate 2	0.0652	0.0686	0.0699	0.0696	0.0712	0.0644	0.0626	0.0664	0.0424
Colony 1, Replicate 3	0.0646	0.0691	0.0721	0.0696	0.0693	0.0634	0.0635	0.0677	0.0427
Colony 1, Replicate 4	0.0670	0.0708	0.0746	0.0709	0.0732	0.0652	0.0657	0.0697	0.0425
Colony 2, Replicate 1	0.0784	0.0716	0.0794	0.0788	0.0790	0.0750	0.0749	0.0945	0.0378
Colony 2, Replicate 2	0.0745	0.0708	0.0768	0.0752	0.0705	0.0710	0.0720	0.0791	0.0361
Colony 2, Replicate 3	0.0760	0.0726	0.0790	0.0743	0.0731	0.0728	0.0726	0.0794	0.0366
Colony 2, Replicate 4	0.0740	0.0665	0.0707	0.0697	0.0701	0.0750	0.0685	0.0739	0.0398

Hour 2:	Neg. Contro	Pos. Control	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	0.1139	0.0895	0.0623	0.1052	0.1182	0.0833	0.1082	0.1398	0.0395
Colony 1, Replicate 2	0.1158	0.0884	0.0620	0.1094	0.1195	0.0874	0.1069	0.1376	0.0386
Colony 1, Replicate 3	0.1157	0.0879	0.0618	0.1064	0.1131	0.0825	0.1035	0.1346	0.0392
Colony 1, Replicate 4	0.1070	0.0700	0.0630	0.1125	0.1223	0.0881	0.1088	0.1423	0.0400
Colony 2, Replicate 1	0.1216	0.1003	0.0725	0.1244	0.1208	0.0971	0.1205	0.1278	0.0386
Colony 2, Replicate 2	0.1184	0.1006	0.0668	0.1168	0.1167	0.0917	0.1124	0.1159	0.0362
Colony 2, Replicate 3	0.1210	0.0971	0.0654	0.1201	0.1137	0.0925	0.1159	0.1201	0.0355
Colony 2, Replicate 4	0.1124	0.0945	0.0632	0.1122	0.1085	0.0858	0.1069	0.1123	0.0378

Hour 4:	Neg. Contro	Pos. Control	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	0.2298	0.1933	0.0682	0.2228	0.2570	0.1320	0.2264	0.2580	0.0384
Colony 1, Replicate 2	0.2183	0.1886	0.0652	0.2229	0.2402	0.1352	0.2313	0.2491	0.0412
Colony 1, Replicate 3	0.2190	0.1758	0.0672	0.2004	0.2335	0.1228	0.2184	0.2469	0.0427
Colony 1, Replicate 4	0.2117	0.2012	0.0682	0.2306	0.2544	0.1351	0.2199	0.2515	0.0425
Colony 2, Replicate 1	0.2807	0.2041	0.0776	0.2445	0.2684	0.1746	0.2232	0.2904	0.0379
Colony 2, Replicate 2	0.2619	0.1959	0.0701	0.2321	0.2515	0.1662	0.2006	0.2600	0.0369
Colony 2, Replicate 3	0.2728	0.2008	0.0703	0.2316	0.2542	0.1590	0.2104	0.2541	0.0373
Colony 2, Replicate 4	0.2559	0.1905	0.0635	0.2218	0.2420	0.1498	0.1994	0.2482	0.0402

Hour 6:	Neg. Contro	Pos. Control	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	LB + Chlor (blank)
Colony 1, Replicate 1	0.3454	0.2813	0.0712	0.2683	0.3073	0.2284	0.3010	0.3262	0.0403
Colony 1, Replicate 2	0.3352	0.2822	0.0712	0.2648	0.3037	0.2231	0.3001	0.3275	0.0417
Colony 1, Replicate 3	0.3400	0.2814	0.0723	0.2631	0.2895	0.2077	0.2829	0.3065	0.0417
Colony 1, Replicate 4	0.3211	0.2899	0.0729	0.2861	0.3092	0.2317	0.3033	0.3301	0.0454
Colony 2, Replicate 1	0.3626	0.3011	0.0714	0.3512	0.3716	0.3092	0.2743	0.4117	0.0381
Colony 2, Replicate 2	0.3601	0.3087	0.0674	0.3450	0.3474	0.3063	0.2718	0.3814	0.0359
Colony 2, Replicate 3	0.3534	0.2982	0.0684	0.3431	0.3446	0.2912	0.2699	0.3921	0.0358
Colony 2, Replicate 4	0.3384	0.2831	0.0647	0.3215	0.3314	0.2736	0.2667	0.3602	0.0380

Plate pattern:

A1	A2	A3	A4	A5	A6	A7	A8	A9
B1	B2	B3	B4	B5	B6	B7	B8	B9
C1	C2	C3	C4	C5	C6	C7	C8	C9
D1	D2	D3	D4	D5	D6	D7	D8	D9
E1	E2	E3	E4	E5	E6	E7	E8	E9
F1	F2	F3	F4	F5	F6	F7	F8	F9
G1	G2	G3	G4	G5	G6	G7	G8	G9
H1	H2	H3	H4	H5	H6	H7	H8	H9

Unit Scaling Factors: *These are imported from the prior two sheets*

Enter fluorescence and Abs600 measurements into blue cells on "Raw Plate Reader Measurements"
They will be copied into the green cells on this sheet.
Gold cells are calculated
If you have more replicates, unhide the extra columns

OD600/Abs600	3.59
uM Fluorescein/a.u.	1.90E-03

Experimental Values:

Raw Abs600 | Raw Fluorescence | OD - Background | Fluorescence - Background | uM Fluorescein / OD600 | Summary Statistics

Sample set:	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Arith. Mean	Arith. Std.De	Geo. Mean	Geo. Std. Dev
Blank media	0.0401	0.0424	0.0427	0.0425	14	15	17	17																
Blank mean:	0.041925				15.75																			
Hour 0:																								
Negative Control (Colony 1)	0.0671	0.0652	0.0646	0.067	16	16	16	16	0.025175	0.023275	0.022675	0.025075	0.25	0.25	0.25	0.25	0.01	0.01	0.01	0.01	0.01	0.00	0.01	1.054
Negative Control (Colony 2)	0.0784	0.0745	0.076	0.074	16	16	15	15	0.036475	0.032575	0.034075	0.032075	0.25	0.25	-0.75	-0.75	0.00	0.00	-0.01	-0.01	0.00	0.01	#NUM!	#NUM!
Positive Control (Colony 1)	0.0679	0.0686	0.0691	0.0708	27	29	30	29	0.025975	0.026675	0.027175	0.028875	11.25	13.25	14.25	13.25	0.23	0.26	0.28	0.24	0.25	0.02	0.25	1.088
Positive Control (Colony 2)	0.0716	0.0708	0.0726	0.0665	28	28	26	26	0.029675	0.028875	0.030675	0.024575	12.25	12.25	10.25	10.25	0.22	0.22	0.18	0.22	0.21	0.02	0.21	1.119
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0725	0.0699	0.0721	0.0746	92	84	99	99	0.030575	0.027975	0.030175	0.032675	76.25	68.25	83.25	83.25	1.32	1.29	1.46	1.34	1.35	0.07	1.35	1.055
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0794	0.0768	0.079	0.0707	82	79	81	79	0.037475	0.034875	0.037075	0.028775	66.25	63.25	65.25	63.25	0.93	0.96	0.93	1.16	0.99	0.11	0.99	1.112
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.0694	0.0696	0.0696	0.0709	47	47	50	49	0.027475	0.027675	0.027675	0.028975	31.25	31.25	34.25	33.25	0.60	0.60	0.65	0.61	0.61	0.03	0.61	1.043
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.0788	0.0752	0.0743	0.0697	41	42	40	41	0.036875	0.033275	0.032375	0.027775	25.25	26.25	24.25	25.25	0.36	0.42	0.40	0.48	0.41	0.05	0.41	1.126
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.0704	0.0712	0.0693	0.0732	16	16	17	18	0.028475	0.029275	0.027375	0.031275	0.25	0.25	1.25	2.25	0.00	0.00	0.02	0.04	0.02	0.02	0.01	3.025
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.079	0.0705	0.0731	0.0701	16	16	16	15	0.037075	0.028575	0.031175	0.028175	0.25	0.25	0.25	-0.75	0.00	0.00	0.00	-0.01	0.00	0.01	#NUM!	#NUM!
Test Device 4: J23101+I13504 (Colony 1)	0.0633	0.0644	0.0634	0.0652	25	25	27	27	0.021375	0.022475	0.021475	0.023275	9.25	9.25	11.25	11.25	0.23	0.22	0.28	0.26	0.24	0.03	0.24	1.115
Test Device 4: J23101+I13504 (Colony 2)	0.075	0.071	0.0728	0.075	27	26	26	25	0.033075	0.029075	0.030875	0.033075	11.25	10.25	10.25	9.25	0.18	0.19	0.18	0.15	0.17	0.02	0.17	1.108
Test Device 5: J23106+I13504 (Colony 1)	0.0626	0.0626	0.0635	0.0657	18	18	19	19	0.020675	0.020675	0.021575	0.023775	2.25	2.25	3.25	3.25	0.06	0.06	0.08	0.07	0.07	0.01	0.07	1.179
Test Device 5: J23106+I13504 (Colony 2)	0.0749	0.072	0.0726	0.0685	18	18	18	18	0.032975	0.030075	0.030675	0.026575	2.25	2.25	2.25	2.25	0.04	0.04	0.04	0.04	0.04	0.00	0.04	1.094
Test Device 6: J23117+I13504 (Colony 1)	0.0653	0.0664	0.0677	0.0697	15	17	17	17	0.023375	0.024475	0.025775	0.027775	-0.75	1.25	1.25	1.25	-0.02	0.03	0.03	0.02	0.01	0.02	#NUM!	#NUM!
Test Device 6: J23117+I13504 (Colony 2)	0.0945	0.0791	0.0794	0.0739	16	16	16	15	0.052575	0.037175	0.037475	0.031975	0.25	0.25	0.25	-0.75	0.00	0.00	0.00	-0.01	0.00	0.01	#NUM!	#NUM!
Hour 2:																								
Negative Control (Colony 1)	0.1139	0.1158	0.1157	0.107	14	13	13	15	0.071975	0.073875	0.073775	0.065075	-1.75	-2.75	-2.75	-0.75	-0.01	-0.02	-0.02	-0.01	-0.01	0.01	#NUM!	#NUM!
Negative Control (Colony 2)	0.1216	0.1184	0.121	0.1124	14	15	13	15	0.079675	0.076475	0.079075	0.070475	-1.75	-0.75	-2.75	-0.75	-0.01	-0.01	-0.02	-0.01	-0.01	0.01	#NUM!	#NUM!
Positive Control (Colony 1)	0.0895	0.0884	0.0879	0.07	41	43	47	45	0.047575	0.046475	0.045975	0.028075	25.25	27.25	31.25	29.25	0.28	0.31	0.36	0.55	0.37	0.12	0.36	1.346
Positive Control (Colony 2)	0.1003	0.1006	0.0971	0.0945	43	43	43	42	0.058375	0.058675	0.055175	0.052575	27.25	27.25	27.25	26.25	0.25	0.25	0.26	0.26	0.25	0.01	0.25	1.038
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0623	0.062	0.0618	0.063	73	73	79	81	0.020375	0.020075	0.019875	0.021075	57.25	57.25	63.25	65.25	1.48	1.51	1.68	1.63	1.58	0.10	1.57	1.063
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0725	0.0668	0.0654	0.0632	66	66	67	62	0.030575	0.024875	0.023475	0.021275	50.25	50.25	51.25	46.25	0.87	1.07	1.15	1.15	1.06	0.13	1.05	1.142
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.1052	0.1094	0.1064	0.1125	75	74	77	77	0.063275	0.067475	0.064475	0.070575	59.25	58.25	61.25	61.25	0.49	0.46	0.50	0.46	0.48	0.02	0.48	1.051
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.1244	0.1168	0.1201	0.1122	68	69	68	66	0.082475	0.074875	0.078175	0.070275	52.25	53.25	52.25	50.25	0.33	0.38	0.35	0.38	0.36	0.02	0.36	1.059
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.1182	0.1195	0.1131	0.1223	14	16	17	17	0.076275	0.077575	0.071175	0.080375	-1.75	0.25	1.25	1.25	-0.01	0.00	0.01	0.01	0.00	0.01	#NUM!	#NUM!
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.1208	0.1167	0.1137	0.1085	15	16	16	16	0.078875	0.074775	0.071775	0.066575	-0.75	0.25	0.25	0.25	-0.01	0.00	0.00	0.00	0.00	0.00	#NUM!	#NUM!
Test Device 4: J23101+I13504 (Colony 1)	0.0833	0.0874	0.0825	0.0881	48	50	50	52	0.041375	0.045475	0.040575	0.046175	32.25	34.25	34.25	36.25	0.41	0.40	0.45	0.41	0.42	0.02	0.42	1.049
Test Device 4: J23101+I13504 (Colony 2)	0.0971	0.0917	0.0925	0.0858	45	45	45	43	0.055175	0.049775	0.050575	0.043875	29.25	29.25	29.25	27.25	0.28	0.31	0.31	0.33	0.31	0.02	0.31	1.068
Test Device 5: J23106+I13504 (Colony 1)	0.1082	0.1069	0.1035	0.1088	28	29	31	30	0.066275	0.064975	0.061575	0.066875	12.25	13.25	15.25	14.25	0.10	0.11	0.13	0.11	0.11	0.01	0.11	1.129
Test Device 5: J23106+I13504 (Colony 2)	0.1205	0.1124	0.1159	0.1069	27	28	28	27	0.078575	0.070475	0.073975	0.064975	11.25	12.25	12.25	11.25	0.08	0.09	0.09	0.09	0.09	0.01	0.09	1.095
Test Device 6: J23117+I13504 (Colony 1)	0.1398	0.1376	0.1346	0.1423	15	15	15	16	0.097875	0.095675	0.092675	0.100375	-0.75	-0.75	-0.75	0.25	0.00	0.00	0.00	0.00	0.00	0.00	#NUM!	#NUM!
Test Device 6: J23117+I13504 (Colony 2)	0.1278	0.1159	0.1201	0.1123	15	15	14	15	0.085875	0.073975	0.078175	0.070375	-0.75	-0.75	-1.75	-0.75	0.00	-0.01	-0.01	-0.01	-0.01	0.00	#NUM!	#NUM!
Hour 4:																								
Negative Control (Colony 1)	0.2298	0.2183	0.219	0.2117	20	17	19	20	0.187875	0.176375	0.177075	0.169775	4.25	1.25	3.25	4.25	0.01	0.00	0.01	0.01	0.01	0.00	0.01	1.781
Negative Control (Colony 2)	0.2807	0.2619	0.2728	0.2559	19	20	18	20	0.238775	0.219975	0.230875	0.213975	3.25	4.25	2.25	4.25	0.01	0.01	0.01	0.01	0.01	0.00	0.01	1.399
Positive Control (Colony 1)	0.1933	0.1886	0.1758	0.2012	128	131	134	133	0.151375	0.146675	0.133875	0.159275	112.25	115.25	118.25	117.25	0.39	0.41	0.47	0.39	0.42	0.04	0.41	1.088
Positive Control (Colony 2)	0.2041	0.1959	0.2008	0.1905	105	99	103	101	0.162175	0.153975	0.158875	0.148575	89.25	83.25	87.25	85.25	0.29	0.29	0.29	0.30	0.29	0.01	0.29	1.026
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0682	0.0652	0.0672	0.0682	133	119	139	138	0.026275	0.023275	0.025275	0.026275	117.25	103.25	123.25	122.25	2.36	2.34	2.57	2.46	2.43	0.11	2.43	1.045
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0776	0.0701	0.0703	0.0635	99	96	96	93	0.035675	0.028175	0.028375	0.021575	83.25	80.25	80.25	77.25	1.23	1.50	1.49	1.89	1.53	0.27	1.51	1.191
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.2228	0.2229	0.2004	0.2306	189	177	200	196	0.180875	0.180975	0.158475	0.188675	173.25	161.25	184.25	180.25	0.51	0.47	0.61	0.50	0.52	0.06	0.52	1.121
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.2445	0.2321	0.2316	0.2218	163	160	159	155	0.202575	0.190175	0.189675	0.179875	147.25	144.25	143.25	139.25	0.38	0.40	0.40	0.41	0.40	0.01	0.40	1.027
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.257	0.2402	0.2335	0.2544	22	21	22	22	0.215075	0.198275	0.191575	0.212475	6.25	5.25	6.25	6.25	0.02	0.01	0.02	0.02	0.02	0.00	0.02	1.089
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.2684	0.2515	0.2542	0.242	22	22	23	22	0.226475	0.209575	0.212275	0.200075	6.25	6.25	7.25	6.25	0.01	0.02	0.02	0.02	0.02	0.00	0.02	1.093
Test Device 4: J23101+I13504 (Colony 1)	0.132	0.1352	0.1228	0.1351	141	143	144	150	0.090075	0.093275	0.080875	0.093175	125.25	127.25	128.25	134.25	0.73	0.72	0.84	0.76	0.76	0.05	0.76	1.069
Test Device 4: J23101+I13504 (Colony 2)	0.1746	0.1662	0.159	0.1498	139	139	137	131	0.132675	0.124275	0.117075	0.107875	123.25	123.25	121.25	115.25	0.49	0.52	0.55	0.56	0.53	0.03	0.53	1.062
Test Device 5: J23106+I13504 (Colony 1)	0.2264	0.2313	0.2184	0.2199	51	55	55	55	0.184475	0.189375	0.176475	0.177975	35.25	39.25	39.25	39.25	0.10	0.11	0.12	0.12	0.11	0.01	0.11	1.073
Test Device 5: J23106+I13504 (Colony 2)	0.2232	0.2006	0.2104	0.1994	44	45	43	42	0.181275	0.158675	0.168475	0.157475	28.25	29.25	27.25	26.25	0.08	0.10	0.09	0.09	0.09	0.01	0.09	1.075
Test Device 6: J23117+I13504 (Colony 1)	0.258	0.2491	0.2469	0.2515	20	20	21	20	0.216075	0.207175	0.204975	0.209575	4.25	4.25	5.25	4.25	0.01	0.01	0.01	0.01	0.01	0.00	0.01	1.129
Test Device 6: J23117+I13504 (Colony 2)	0.2904	0.26	0.2541	0.2482	20	22	21	20	0.248475	0.218075	0.212175	0.206275	4.25	6.25	5.25	4.25	0.01	0.02	0.01	0.01	0.01	0.00	0.01	1.251
Hour 6:																								
Negative Control (Colony 1)	0.3454	0.3352	0.34	0.3211	17	16	16	18	0.303475	0.293275	0.298075	0.279175	1.25	0.25	0.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.131
Negative Control (Colony 2)	0.3626	0.3601	0.3534	0.3384	17	15	16	17	0.320675	0.318175	0.311475	0.296475	1.25	-0.75	0.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	#NUM!	#NUM!
Positive Control (Colony 1)	0.2813	0.2822	0.2814	0.2899	124	126	136	138	0.239375	0.240275	0.239475	0.247975	108.25	110.25	120.25	122.25	0.24	0.24	0.27	0.26	0.25	0.01	0.25	1.053
Positive Control (Colony 2)	0.3011	0.3087	0.2982	0.2831	123	115	121	116	0.259175	0.266775	0.256275	0.241175	107.25	99.25	105.25	100.25	0.22	0.20	0.22	0.22	0.21	0.01	0.21	1.054
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0712	0.0712	0.0723	0.0729	125	121	132	130	0.029275	0.029275	0.030375	0.030975	109.25	105.25	116.25	114.25	1.97	1.90	2.02	1.95	1.96	0.05	1.96	1.026
Test Device 1: J23101.BCD2.E0040.B0015 (Colony	0.0714	0.0674	0.0684	0.0647	88	87	90	83	0.029475	0.025475	0.026475	0.022775	72.25	71.25	74.25	67.25	1.29	1.48	1.48	1.56	1.45	0.11	1.45	1.083
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.2683	0.2648	0.2631	0.2861	177	175	182	190	0.226375	0.222875	0.221175	0.244175	161.25	159.25	166.25	174.25	0.38	0.38	0.40	0.38	0.38	0.01	0.38	1.026
Test Device 2: J23106.BCD2.E0040.B0015 (Colony	0.3512	0.345	0.3431	0.3215	163	170	174	160	0.309275	0.303075	0.301175	0.279575	147.25	154.25	158.25	144.25	0.25	0.27	0.28	0.27	0.27	0.01	0.27	1.044
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.3073	0.3037	0.2895	0.3092	20	20	20	20	0.265375	0.261775	0.247575	0.267275	4.25	4.25	4.25	4.25	0.01	0.01	0.01	0.01	0.01	0.00	0.01	1.035
Test Device 3: J23117.BCD2.E0040.B0015 (Colony	0.3716	0.3474	0.3446	0.3314	19	20	19	19	0.329675	0.305475	0.302675	0.289475	3.25	4.25	3.25	3.25	0.01	0.01	0.01	0.01	0.01	0.00	0.01	1.158
Test Device 4: J23101+I13504 (Colony 1)	0.2284	0.2231	0.2077	0.2317	128	133	138	141	0.186475	0.181175	0.165775	0.189775	112.25	117.25	122.25	125.25	0.32	0.34	0.39	0.35	0.35	0.03	0.35	1.088
Test Device 4: J23101+I13504 (Colony 2)	0.3092	0.3063	0.2912	0.2736	142	138	142	139	0.267275	0.264375	0.249275	0.231675	126.25	122.25	126.25	123.25	0.25	0.24	0.27	0.28	0.26	0.02	0.26	1.067
Test Device 5: J23106+I13504 (Colony 1)	0.301	0.3001	0.2829	0.3033	42	44	46	46	0.259075	0.258175	0.240975	0.261375	26.25	28.25	30.25	30.25	0.05	0.06	0.07	0.06	0.06	0.01	0.06	1.095
Test Device 5: J23106+I13504 (Colony 2)	0.2743	0.2718	0.2699	0.2667	37	35	35	34	0.232375	0.229875	0.227975	0.224775	21.25	19.25	19.25	18.25	0.05	0.04	0.04	0.04	0.04	0.00	0.04	1.052
Test Device 6: J23117+I13504 (Colony 1)	0.3262	0.3275	0.3065	0.3301	17	19	19	18	0.284275	0.285575	0.264575	0.288175	1.25	3.25	3.25	2.25	0.00	0.01	0.01	0.00	0.00	0.00	0.00	1.599
Test Device 6: J23117+I13504 (Colony 2)	0.4117	0.3814	0.3921	0.3602	17	17	17	18	0.369775	0.339475	0.350175	0.318275	1.25	1.25	1.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.415

Negative Control (Colony 1)
Negative Control (Colony 2)
Positive Control (Colony 1)
Positive Control (Colony 2)
Test Device 1: J23101.BCD2.E0040.B0015 (Colony 1)
Test Device 1: J23101.BCD2.E0040.B0015 (Colony 2)
Test Device 2: J23106.BCD2.E0040.B0015 (Colony 1)
Test Device 2: J23106.BCD2.E0040.B0015 (Colony 2)
Test Device 3: J23117.BCD2.E0040.B0015 (Colony 1)
Test Device 3: J23117.BCD2.E0040.B0015 (Colony 2)
Test Device 4: J23101+I13504 (Colony 1)
Test Device 4: J23101+I13504 (Colony 2)
Test Device 5: J23106+I13504 (Colony 1)
Test Device 5: J23106+I13504 (Colony 2)
Test Device 6: J23117+I13504 (Colony 1)
Test Device 6: J23117+I13504 (Colony 2)

target Abs600		**0.02**	
target volume (mL)		**12**	
sample	Abs600 Reading	Volume of Preloading Culture	Volume of Preloading Media
positive control	0.6152	0.417536534	11.58246347
negative control	0.6728	0.379506641	11.62049336
device 1	0.7250	0.350569676	11.64943032
device 2	0.5333	0.486914181	11.51308582
device 3	0.5665	0.456187037	11.54381296
device 4	0.5548	0.466562986	11.53343701
device 5	0.5826	0.442641092	11.55735891
device 6	0.3254	0.842105263	11.15789474
media+chl	0.0404		

Enter fluorescence measurements into blue cells
Gold cells are calculated

SAFIRE II; Serial number: 501000006; Firmware: V 1.35 08/2005 Safire2; XFLUOR4SAFIREII Version: V 4.62n

Fluorescence Settings	
Measurement mode:	Fluorescence Bottom
Excitation wavelength:	485 nm
Emission wavelength:	530 nm
Excitation bandwidth:	5 nm
Emission bandwidth:	5 nm
Gain (Manual):	50
Number of reads:	6
FlashMode:	High sensitivity
Integration time:	40 µs
Lag time:	0 µs
Plate definition file:	COS96fb.pdf
Time between move and flash:	10 ms

Absorbance Settings	
Measurement mode:	Absorbance
Measurement wavelength:	600
Number of reads:	3
Plate definition file:	COS96fb.p nm