

Cd Results (p. 67 samples)

Sample	Concentration	OD600	Fluorescence	Dilution Factor	Ratio
A PH5d	0mM	.964	.746	10	3.59
	1mM	.0062	.069		1.11
	5mM	.051	.066		1.33
	10mM	.086	.086 .092		1.07
	50mM	1.404	.910	10	6.48
B K924003 (+)	"	1.376	.363	10	2.64
	"	.826	.261	10	3.16
	"	.079	.050		.633
	"	.078	.055		.705
	"	1.585	.270	100	14.49
C S activator 2001	"	1.332	.281	10	2.11
	"	.959	.263	10	2.74
	"	.095	.155		1.63
	"	.061	.130		2.13
	"	1.732	.228	100	13.16
D S activator 2004	"	1.279	.381	10	2.98
	"	1.331	.340	10	2.55
	"	.117	.060		.513
	"	.067	.118		1.76
	"	1.647	.153	100	9.29
E S activator 2002	"	1.171	.260	10	2.22
	"	.873	.160	10	1.83
	"	.072	.066		.92
	"	.097	.044		.45
	"	1.477	.870	10	5.89
F S activator 2003	"	1.308	.322	10	2.16
	"	.743	.948		1.28
	"	.109	.160		1.47
	"	.099	.074		.75
	"	1.510	.136	100	9.01
G S activator 2005	"	1.246	.279	10	2.24
	"	.708	.767		1.08
	"	.146	.064		.44
	"	.057	.072		1.26
	"	1.474	.927	10	6.29

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• replated

- mK174015 Trans-1 New
- I746350 Trans-3 High
- I746350 Trans-3 Low
- I746351 Trans-4 High
- I746351 Trans-4 Low

• Cd Test Procedure

- Gather tubes and fill with 4ml of LB and Chlor
(exception sample A (DH5 α control) gets LB only)
- Add 100 μ l of cells and appropriate Cd concentrations

Samples

	<u>Concentration CdCl₂</u>
A- DH5 α (control)	1 - 0mM
B- K824008 slant	2 - 1mM (4.1 μ l)
C- Trans. 1 Cl (K1042001)	3 - 5mM (20.5 μ l)
D- Trans. 5 Cl (K1042004)	4 - 10mM (41 μ l)
E- K1042002	5 - 50mM (205 μ l)
F- K1042003	
G- K1042005	

- cultures of DH5 α and K824008 slant started

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Cadmium Test Results (p. 66)

Sample	Concentration	OD600	Fluorescence	Dilution Factor	Ratio
A 2152	1 0 mM	.929	.355	1:10	3.626
	2 1 mM	.484	.980		1.983
	3 5 mM	.070	.227		2.389 3.243
	4 10 mM	.095	.593		6.242
	5 50 mM	1.425	.112	1:100	7.86
B dil	1 0 mM	1.224	.527	1:10	4.306
	2 1 mM	.765	.252	1:10	3.294
	3 5 mM	.210	.486		2.314
	4 10 mM	.151	.600		3.974
	5 50 mM	1.663	.151	1:100	9.080
C 2002 Ephi	1 0 mM	1.313	.625	1:10	4.760
	2 1 mM	.974	.339	1:10	3.480
	3 5 mM	.122	.270		2.213
	4 10 mM	.233	.763		3.275
	5 50 mM	1.600	.086	1:100	5.375
D 2003 O5	1 0 mM	1.471	.777	1:10	5.282
	2 1 mM	1.236	.509	1:10	4.118
	3 5 mM	.468	.277	1:10	5.919
	4 10 mM	.456	.186	1:10	4.079
	5 50 mM	1.331	.875 .351	1:10	6.574
E 2005 O5	1 0 mM	1.041	.495	1:10	4.755
	2 1 mM	.983	.319	1:10	3.245
	3 5 mM	.401	1.003		2.501
	4 10 mM	.366	.155	1:10	4.235
	5 50 mM	1.618	.091	1:100	5.624

Note: D3, D4, D5 were suspected to have not been resuspended and so they were added with 1mL PBS before recorded.