

Supplementary Table 1: Colony counts and ratio(s) of lac plus vs minus

Media - LB
Cultures - 1000G Lac plus (reactivated over three cycles of growth in HARV) and lac minus together
Growth condition/environment - LSMMG (HARV)
CV - Coefficient of variation
CVB - CV corrected for bias
CT - Cumulative total colony counts pooled from all the plates used in multiple trials/sets
CI - Confidence Interval

Control				No Erasure				
Set	Plus	Minus	Ratio	Set	plus	minus	Ratio	
1	22	29	0.76	1	45	13	3.46	
	22	28	0.79		45	26	1.73	
	56	53	1.06		64	49	1.31	
	33	27	1.22		59	51	1.16	
	90	78	1.15	2	35	15	2.33	
2	58	62	0.94		62	29	2.14	
	27	26	1.04		58	43	1.35	
	7	15	0.47	66	50	1.32		
	17	32	0.53	3	58	49	1.18	
43	72	0.60	50		17	2.94		
3	27	34	0.79		66	21	3.14	
	33	32	1.03	39	13	3.00		
	22	17	1.29	4	116	50	2.32	
	48	36	1.33		118	43	2.74	
60	49	1.22	49		5	9.80		
4	23	15	1.53		78	13	6.00	
	14	22	0.64	5	60	6	10.00	
	15	13	1.15		71	11	6.45	
	52	34	1.53		78	10	7.80	
80	53	1.51	14		5	2.80		
5	56	36	1.56	6	104	11	9.45	
	39	25	1.56		21	3	7.00	
	46	19	2.42		148	15	9.87	
	49	52	0.94		14	2	7.00	
6	66	45	1.47	7	25	4	6.25	
	86	82	1.05		3	1	3.00	
	60	82	0.73		13	3	4.33	
	48	44	1.09		4	1	4.00	
7	76	80	0.95	8	70	36	1.94	
	67	74	0.91		79	45	1.76	
	28	67	0.42		51	23	2.22	
	69	70	0.99		52	32	1.63	
8	68	92	0.74	9	55	32	1.72	
	31	33	0.94		46	21	2.19	
	97	113	0.86		40	25	1.60	
	101	105	0.96		75	39	1.92	
9	30	49	0.61	CT	7	11	0.64	
	74	103	0.72		28	19	1.47	
	87	120	0.73		Average		3.71	
	90	110	0.82		Std Dev		2.81	
CT	101	107	0.94		CV		76%	
	62	89	0.70		CVB		8	
	52	116	0.45		2066	842	2.46	
	53	115	0.46		CI		0.9	
CT	64	140	0.46		CT	2066	842	2.46
	23	78	0.29			CI		0.9
	Average		0.96	CT		2066	842	2.46
	Std Dev		0.40			CI		0.9
CV		42%	CT		2066	842	2.46	
CVB		5.2			CI		0.9	
CT	2372	2773		0.86	CT	2066	842	2.46
	CI			0.12		CI		0.9

10 generation Erasure			
Set	plus	minus	Ratio
1	54	12	4.50
	43	11	3.91
	49	19	2.58
2	21	4	5.25
	56	15	3.73
	44	11	4.00
3	26	7	3.71
	52	11	4.73
	64	28	2.29
4	69	27	2.56
	39	29	1.34
	26	29	0.90
5	34	42	0.81
	31	57	0.54
	33	39	0.85
6	21	19	1.11
	11	27	0.41
	16	28	0.57
7	81	47	1.72
	29	37	0.78
	121	34	3.56
8	148	34	4.35
	84	24	3.50
	94	24	3.92
9	132	41	3.22
	102	26	3.92
	52	19	2.74
CT	Average		2.65
	Std Dev		1.52
	CV		57%
	CVB		4.4
	1532	701	2.19
		CI	0.63

20 generation Erasure			
Set	plus	minus	Ratio
1	105	36	2.92
	89	28	3.18
	123	40	3.08
2	99	37	2.68
	116	40	2.90
	93	27	3.44
3	81	43	1.88
	87	50	1.74
	126	41	3.07
4	80	34	2.35
	26	31	0.84
	22	21	1.05
5	11	19	0.58
	10	23	0.43
	9	10	0.90
	17	11	1.55
	10	4	2.50
	29	25	1.16
	21	25	0.84
	Average		1.95
	Std Dev		1.01
CT	CV		51%
	CVB		2.9
	1154	545	2.12
		CI	0.46

30 generation Erasure			
Set	plus	minus	Ratio
1	5	3	1.67
	2	7	0.29
	2	4	0.50
2	3	4	0.75
	3	2	1.50
	1	9	0.11
3	4	3	1.33
	11	16	0.69
	3	2	1.50
4	48	37	1.30
	12	4	3.00
	57	37	1.54
5	11	4	2.75
	42	12	3.50
	34	14	2.43
	41	21	1.95
	28	8	3.50
	39	9	4.33
	42	15	2.80
	37	25	1.48
	42	27	1.56
CT	Average		1.83
	Std Dev		1.14
	CV		62%
	CVB		3.9
	467	263	1.78
		CI	0.49