

1 ml H<sup>3</sup>TdR + 5% DMSO Exp. 8. (07/29/96 ~ 08/9/96)

SER: 1 ID:WIPE                      PRESET TIME: 1.00                      TUE 30 JUL 1996 10:56  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N                      RS232:N  
 H#: 1 ABC:N DCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 0 UL: 1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1                      NORM FACTOR: 0 1.00000  
 HALF LIFE (DAYS): N

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**-18	1	32.00	35.36	1.00	1.45	78.0	
		2	50.00	28.28				
		3	73.00	23.41				
2	**- 1	1	30.00	36.51	1.00	3.21	58.0	
		2	42.00	30.86				
		3	53.00	27.47				
3	**- 2	1	34.00	34.30	1.00	4.96	58.0	
		2	45.00	29.81				
		3	57.00	26.49				
4	**- 3	1	28.00	37.80	1.00	6.71	59.0	
		2	35.00	33.81				
		3	56.00	26.73				
5	**- 4	1	22.00	42.64	1.00	8.40	59.0	
		2	32.00	35.36				
		3	63.00	25.20				
6	**- 5	1	26.00	39.22	1.00	10.11	56.0	
		2	45.00	29.81				
		3	68.00	24.25				
7	**- 6	1	24.00	40.82	1.00	11.87	57.0	
		2	34.00	34.30				
		3	50.00	28.28				
8	**- 7	1	146.00	16.55	1.00	13.62	57.0	
		2	167.00	15.48				
		3	188.00	14.59				
9	**- 8	1	185.00	14.70	1.00	15.36	58.0	
		2	196.00	14.29				
		3	212.00	13.74				
10	**- 9	1	158.00	15.91	1.00	17.11	59.0	
		2	171.00	15.29				
		3	186.00	14.66				
11	**-10	1	430.00	9.64	1.00	18.86	57.0	
		2	438.00	9.56				
		3	457.00	9.36				
12	**-11	1	475.00	9.18	1.00	20.50	59.0	
		2	487.00	9.06				
		3	504.00	8.91				
13	**-12	1	477.00	9.16	1.00	22.20	58.0	
		2	485.00	9.08				
		3	504.00	8.91				
14	**-13	1	675.00	7.70	1.00	23.96	57.0	
		2	687.00	7.63				
		3	697.00	7.58				

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
15	**	-14	1	745.00	7.33	1.00	25.66	58.0
			2	759.00	7.26			
			3	775.00	7.18			
16	**	-15	1	699.00	7.56	1.00	27.42	59.0
			2	715.00	7.48			
			3	731.00	7.40			
17	**	-16	1	28.00	37.80	1.00	29.12	57.0
			2	36.00	33.33			
			3	48.00	28.87			
18	**	-17	1	43.00	30.50	1.00	30.82	57.0
			2	58.00	26.26			
			3	76.00	22.94			
19	**	-18	1	37.00	32.88	1.00	32.52	58.0
			2	51.00	28.01			
			3	76.00	22.94			
20	**	- 1	1	35.00	33.81	1.00	34.27	56.0
			2	53.00	27.47			
			3	69.00	24.08			
21	**	- 2	1	28.00	37.80	1.00	35.98	57.0
			2	43.00	30.50			
			3	64.00	25.00			
22	**	- 3	1	20.00	44.72	1.00	37.69	59.0
			2	27.00	38.49			
			3	44.00	30.15			
23	**	- 4	1	140.00	16.90	1.00	39.40	58.0
			2	163.00	15.67			
			3	176.00	15.08			
24	**	- 5	1	146.00	16.55	1.00	41.10	57.0
			2	160.00	15.81			
			3	175.00	15.12			
25	**	- 6	1	181.00	14.87	1.00	42.86	58.0
			2	194.00	14.36			
			3	212.00	13.74			
26	**	- 7	1	436.00	9.58	1.00	44.55	57.0
			2	453.00	9.40			
			3	472.00	9.21			
27	**	- 8	1	400.00	10.00	1.00	46.25	57.0
			2	411.00	9.87			
			3	424.00	9.71			
28	**	- 9	1	429.00	9.66	1.00	48.00	57.0
			2	446.00	9.47			
			3	472.00	9.21			
29	**	-10	1	664.00	7.76	1.00	49.75	56.0
			2	676.00	7.69			
			3	700.00	7.56			
30	**	-11	1	636.00	7.93	1.00	51.45	58.0
			2	650.00	7.84			
			3	675.00	7.70			
31	**	-12	1	730.00	7.40	1.00	53.16	57.0
			2	761.00	7.25			
			3	776.00	7.18			

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
32	**-13	1	39.00	32.03	1.00	54.86	56.0	
		2	51.00	28.01				
		3	72.00	23.57				
33	**-14	1	45.00	29.81	1.00	56.57	56.0	
		2	53.00	27.47				
		3	79.00	22.50				
34	**-15	1	168.00	15.43	1.00	58.27	55.0	
		2	184.00	14.74				
		3	203.00	14.04				
35	**-16	1	355.00	10.61	1.00	59.98	57.0	
		2	387.00	10.17				
		3	411.00	9.87				
36	**-17	1	602.00	8.15	1.00	61.68	58.0	
		2	616.00	8.06				
		3	636.00	7.93				
37	**-18	1	42.00	30.86	1.00	63.39	56.0	
		2	58.00	26.26				
		3	67.00	24.43				
38	**- 1	1	31.00	35.92	1.00	65.15	57.0	
		2	44.00	30.15				
		3	61.00	25.61				
39	**- 2	1	150.00	16.33	1.00	66.86	56.0	
		2	162.00	15.71				
		3	169.00	15.38				
40	**- 3	1	327.00	11.06	1.00	68.56	58.0	
		2	340.00	10.85				
		3	357.00	10.59				
41	**- 4	1	551.00	8.52	1.00	70.27	57.0	
		2	573.00	8.36				
		3	606.00	8.12				
42	**- 5	1	47.00	29.17	1.00	71.87	51.0	
		2	59.00	26.04				
		3	73.00	23.41				
43	**- 6	1	35.00	33.81	1.00	73.48	53.0	
		2	53.00	27.47				
		3	85.00	21.69				
44	**- 7	1	35.00	33.81	1.00	75.08	68.0	
		2	45.00	29.81				
		3	56.00	26.73				
45	**- 8	1	24.00	40.82	1.00	76.69	51.0	
		2	37.00	32.88				
		3	59.00	26.04				
46	**- 9	1	33.00	34.82	1.00	78.30	48.0	
		2	45.00	29.81				
		3	66.00	24.62				
47	**-10	1	30.00	36.51	1.00	79.90	53.0	
		2	43.00	30.50				
		3	64.00	25.00				
48	**-11	1	27.00	38.49	1.00	81.52	57.0	
		2	41.00	31.23				
		3	65.00	24.81				

0.6  
1.0

120 x 3  
390

130 x 5  
650  
570  
720

SAM	POS	CH	CFM	2516%	TIME	EL TIME	AVG H#	ERR
49	**	-12	1	18.00	47.14	1.00	83.13	53.0
			2	27.00	38.49			
			3	42.00	30.86			
50	**	-13	1	28.00	37.80	1.00	84.73	61.0
			2	41.00	31.23			
			3	59.00	26.04			
51	**	-14	1	37.00	32.88	1.00	86.33	56.0
			2	50.00	28.28			
			3	71.00	23.74			

Exp. 8.

USER: 9 ID: TRITIUM PRESET TIME: 1.00 MON 05 AUG 1996 10:49  
SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
: 1 AGC:Y QCF:N RCM:N 2 PHASE MONITOR:N  
CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR:Q 1.00000  
HALF LIFE(DAYS):N

SAM	CPM1	TIME	AVG H#	ERR
1	7.00	1.00	70.0	
2	12.00	1.00	70.0	
3	9.00	1.00	74.0	
4	6.00	1.00	70.0	
5	7.00	1.00	72.0	
6	10.00	1.00	68.0	
7	462.00	1.00	70.0	
8	458.00	1.00	69.0	
9	436.00	1.00	69.0	
10	1263.00	1.00	70.0	
11	1291.00	1.00	69.0	
12	1250.00	1.00	68.0	
13	1989.00	1.00	69.0	
14	1944.00	1.00	70.0	
15	2107.00	1.00	72.0	
16	9.00	1.00	70.0	
17	8.00	1.00	70.0	
18	5.00	1.00	69.0	
19	9.00	1.00	92.0	
20	8.00	1.00	67.0	
21	6.00	1.00	69.0	
22	365.00	1.00	71.0	
23	375.00	1.00	72.0	
24	375.00	1.00	70.0	
25	1005.00	1.00	69.0	
26	1032.00	1.00	71.0	
27	996.00	1.00	70.0	
28	1805.00	1.00	71.0	
29	1806.00	1.00	69.0	
30	1839.00	1.00	70.0	
31	289.00	1.00	53.0	

USER: 9 ID: ~~FRILIUM~~ PRESET TIME: 1.00 FRI 02 AUG 1996 22:24  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
 H#: 1 AQC:Y QCF:N RCM:N 2 PHASE MONITOR:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR:Q 1.00000  
 HALF LIFE(DAYS):N

SAM	CPM1	TIME	AVG H#	ERR
1	4.00	1.00	67.0	
2	9.00	1.00	66.0	
3	8.00	1.00	71.0	
4	4.00	1.00	66.0	
5	9.00	1.00	67.0	
6	13.00	1.00	66.0	
7	525.00	1.00	66.0	
8	488.00	1.00	65.0	
9	468.00	1.00	66.0	
10	1283.00	1.00	66.0	
11	1328.00	1.00	63.0	
12	1252.00	1.00	63.0	
13	2121.00	1.00	65.0	
14	2115.00	1.00	64.0	
15	2186.00	1.00	69.0	
16	5.00	1.00	67.0	
17	7.00	1.00	66.0	
18	5.00	1.00	66.0	
19	4.00	1.00	82.0	
20	6.00	1.00	66.0	
21	8.00	1.00	64.0	
22	384.00	1.00	65.0	
23	345.00	1.00	66.0	
24	424.00	1.00	68.0	
25	1028.00	1.00	66.0	
26	1000.00	1.00	66.0	
27	1086.00	1.00	65.0	
28	1859.00	1.00	67.0	
29	1903.00	1.00	66.0	
30	1961.00	1.00	66.0	
31	299.00	1.00	50.0	

				Avg	cell / food
1.	788	735	684	736	29440
2.	650	738	715	701	28040
3.	707	678	743	709	28360
4.	683	654	631	656	26240
5.	703	721	648	691	27640
6.	503	499	452	485	19400
7.	795	824	791	803	32120
8.	551	479	493	508	20320
9.	473	474	503	483	19320
10.	510	561	579	550	22000

Exp. 8.

1-2	34	48	51	6-2	45	44	55
2-2	36	38	29	7-2	31	39	26
3-2	34	41	30	8-2	26	37	38
4-3	114	129	123	9-3	90	89	86
5-3	75	85	96	10-3	54	55	61

				Avg.	SF
1-2	34	48	51	44.3	1
2-2	36	38	29	34.3	1
3-2	34	41	30	35	0.89
4-3	114	129	123	122	0.31
5-3	75	85	96	85.3	0.22
6-2	45	44	55	40	1
7-2	31	39	26		1
8-2	26	37	38	33.7	0.84
9-3	90	89	86	91.7	0.23
10-3	54	55	61	56.7	0.14



worksheet8

tube	cell counting			avg.	cell/100ul
1	788	735	684	736	29440
2	650	738	715	701	28040
3	707	678	743	709	28360
4	683	654	631	656	26340
5	703	721	648	691	27640
6	503	499	452	485	19400
7	795	824	791	803	32120
8	551	479	493	508	20320
9	473	474	503	483	19320
10	510	561	579	550	22000
flask	colony1	colony2	colony3	AVG.colony	SF
1.2	34	48	51	39.3(44.3)	1
2.2	36	38	29	39.3(34.3)	1
3.2	34	41	30	35	0.489
4.3	114	129	123	122	0.31
5.3	75	85	96	85.3	0.22
6.2	45	44	55	40	1
7.2	26	39	31	40	1
8.2	26	37	38	33.7	0.84
9.3	90	89	96	91.7	0.23
10.3	54	55	61	56.7	0.14
medium	sample1	sample2	sample3	AVG. sample	
1	30	34	28	27.4(30.7)	
2	22	26	24	27.4(24)	
3	146	185	158	163	
4	430	475	477	560.7	
5	675	745	699	706.3	
6	28	43	37	31.9(36)	
7	35	28	20	31.9(27.7)	
8	140	146	181	155.7	
9	436	400	429	421.7	
10	664	636	730	676.6	
cell(20ul)	sample	C(100)/X/5			
1c	39				
2c	45				
3c	168	0.7			
4c	355	0.8			
5c	602	0.72			
6c	42				
7c	31				
8c	150	0.7			
9c	327	0.7			
10c	551	0.71			

worksheet8

cell(100ul)	sample1	sample2	sample3	AVG. sample	Bq/100ul	mBq/cell
1c	7	12	9	8.5 (9.3)		
2c	6	7	10	8.5 (7.7)		
3c	462	458	436	452	11.37	0.4
4c	1263	1291	1250	1268	32.29	1.23
5c	1989	1944	2107	2034.3	51.94	1.88
6c	9	8	5	7.5 (7.3)		
7c	9	8	6	7.5 (7.7)		
8c	365	375	375	371.7	9.34	0.46
9c	1005	1032	996	1011	25.73	1.35
10c	1805	1806	1839	1816.7	46.39	2.11

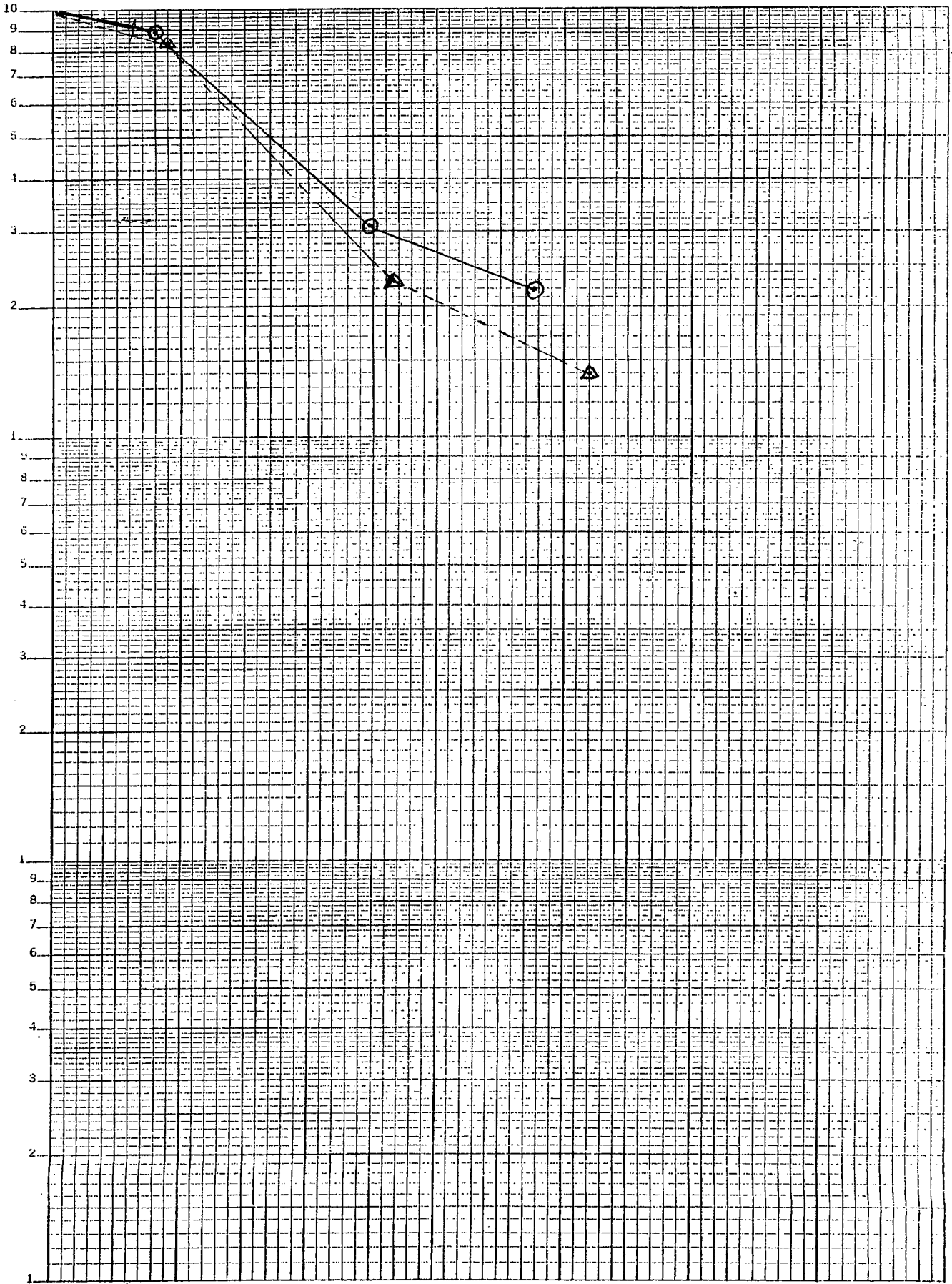
<sup>3</sup>HIdR + 5% DMSO Exp. 8.

○ with 5% DMSO  
△ without DMSO

08/10/96

12-183

Survival Fraction



Semit-Logarithmic  
3 Cycles x 10 to the inch

0.5 1.0 1.5 2.0 2.5 (mBq/cell)