

I131-100%.001

MediumActivity

Experiment: I131-100%.001
Date: 12/13/01

Tube #	Medium count (CPM)			CPM Average	CPM corrected for control	DPM CPM/(y e)	At $\mu\text{Ci/ml}$ on counting	Ao $\mu\text{Ci/ml}$ at addition	Ao kBq/ml at addition
	1st	2nd	3rd						
1	50	47	40	50	0	0	0	0	0
2	45	59	56		0	0	0	0	0
3	10238	10220	9735	10064	10015	15752	0.2365	0.2529	9.3577
4	20303	19535	19572	19803	19754	31069	0.4665	0.4989	18.4576
5	29571	29875	28335	29260	29211	45944	0.6898	0.7377	27.2941
6	38396	37039	33300	36245	36196	56929	0.8548	0.9141	33.8204
7	48758	48804	45364	47642	47593	74855	1.1239	1.2019	44.4696
8	57334	58250	53806	56463	56414	88729	1.3323	1.4247	52.7121
9	64938	67390	63113	65147	65098	102387	1.5373	1.6439	60.8259
10	78026	77220	72285	75844	75794	119211	1.7900	1.9141	70.8207

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CellSuspension

Experiment: I131-100%.001
Date: 12/13/01

Tube #	Suspension count (CPM)			CPM Average	CPM corrected for control	DPM CPM/(y e)	A _i μCi/ml on counting	A _o μCi/ml after uptake	A _o kBq/ml after uptake
	1st	2nd	3rd						
1	48	71	72	66	0	0	0.00000	0	0.0000
2	62	78			0	0	0.00000	0	0.0000
3	21409	21951	22008	21789	21723	34167	0.07695	0.09704	3.5905
4	48806	48301	47651	48253	48186	75789	0.17070	0.21525	7.9644
5	57153	58676	56904	57578	57511	90456	0.20373	0.25691	9.5057
6	86232	88616	86767	87205	87139	137055	0.30868	0.38926	14.4026
7	98177	103270	100499	100649	100582	158199	0.35630	0.44931	16.6246
8	124219	128956	127981	127052	126986	199727	0.44984	0.56726	20.9887
9	146492	152363	149830	149562	149495	235131	0.52957	0.66781	24.7091
10	148960	155579	150625	151721	151655	238528	0.53723	0.67746	25.0661

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Tube #	Coulter count			Average Cells/ml	Hemocytometer Count in Grid			
	1st	2nd	3rd		1st	2nd	3rd	4th
1	7102	7258	7002	7121	2846267			
2	6646	6650	6596	6631	2650267			
3	6934	6715	6809	6819	2725733			
4	6879	6990	6923	6931	2770267			
5	5581	5429	5541	5517	2204800			
6	5312	5394	5422	5376	2148400			
7	4668	4736	4650	4685	1871867			
8	4893	4822	4833	4849	1937733			
9	4669	4566	4677	4637	1852933			
10	3833	4043	3965	3947	1576800			

Tube #	Predicted # Cells Seeded	Actual # Cells Seeded	Colony count			Average	PE (%)	SF Uncorrected	SF Corrected
			1st	2nd	3rd				
1	200	285	140	141	160	143	52.033	1.00	1.0000
2	200	265	130	139	148				
3	200	273	54	56	75	62	22.624	0.4312	0.4348
4	2000	2770	127	144	148	140	5.042	0.0977	0.0969
5	2000	2205	59	55	49	54	2.464	0.0380	0.0474
6	20000	21484	161	148	172	160	0.746	0.0112	0.0143
7	20000	18719	81	83	72	79	0.420	0.0055	0.0081
8	20000	19377	20	23	25	23	0.117	0.0016	0.0022
9	20000	18529	7	7	13	9	0.049	0.0006	0.0009
10	20000	15768	7	5	4	5	0.034	0.0004	0.0007

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Tube #	Activity Conc. (kBq/ml)	Activity/Cell (mBq/cell)	Survival Uncorrected	Survival Corrected
1	0.000	0.000	1.0000	1.0000
2	0.000	0.000	0.4312	0.4348
3	9.358	1.317	0.0977	0.0969
4	18.458	2.875	0.0380	0.0474
5	27.294	4.311	0.0112	0.0143
6	33.820	6.704	0.0055	0.0081
7	44.470	8.881	0.0016	0.0022
8	52.712	10.832	0.0006	0.0009
9	60.826	13.335	0.0004	0.0007
10	70.821	15.897		

