

## Radiological Survey Sheet

Job Location Pfizer Central Research Groton 118D/D307 Page 1 of 18  
 Survey Purpose Radiological Assessment Date 1/8/01  
 Performed By Pam Jones Pam Jones  
 (Print) (Sign)

Inst.(1) (Model/SN) Beckman LS 6500 #7069448	Inst.(2) (Model/SN) <u>Lydium 2241-2</u> # <u>1031003</u>	Inst.(3) (Model/SN)
Det. (Model/SN) Internal	Det. <u>Lydium 43-68</u> (Model/SN) # <u>PR1491013</u>	Det. (Model/SN)
Eff. See LSC Printout	Eff. <u>~ 89 c14</u>	Eff.
Type rad. $\beta$	Type rad. <u>B</u>	Type rad.
Bkgd. See LSC Printout	Bkgd. <u>300 cpm</u>	Bkgd.
Cal. Due: <u>12/00 12/01</u>	Cal. Due <u>2/13/01</u>	Cal. due

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
1.	8:00	door		
2.		wall	1	See attached LSC Printout
3.		wall	1	
4.		wall	1	
5.		out. hood	1	
6.		left out. hood	1	
7.		top	1	
8.		rt.	1	
9.		ledge	1	
10.		glass + handles	1	
11.		left inside hood	1	
12.		top back	1	
13.		mid. back	1	
14.		bottom back	1	
15.		rt. side	1	
16.		left counter	1	
17.		rt. counter	1	
18.	✓	cup sink	1	✓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
19		out. cabinet		
20		left	1	See attached LSC Printout
21		bot.	1	
22		rt.	1	
23		out. cab.	1	
24		left	1	
25		bot.	1	
26		rt.	1	
27		wall	1	
28		ledge	1	
29		wall	1	
30		out. shelves	1	
31		top shelf	1	
32		shelf	1	
33		"	1	
34		bot. shelf	1	
35		out. shelves	1	
36		top shelf	1	
37		shelf	1	
38		"	1	
39		bot. shelf	1	
40		floor	1	
41		"	1	
42		"	1	
43		"	1	
44		"	1	
45		"	1	
46	✓	top shelf	1	✓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
47		shelf		
48		bot. shelf	1	See attached LSC Printout
49		top shelf	1	
50		shelf	1	
51		bot. shelf	1	
52		counter	1	
53		"	1	
54		"	1	
55		cup sink	1	
56		top shelf	1	
57		shelf	1	
58		left shelf	1	
59		rt. shelf	1	
60		desktop	1	
61		out. drawers	1	
62		top drawer	1	
63		top shelf	1	
64		bot. shelf	1	
65		drawer	1	
66		out. drawers	1	
67		top drawer	1	
68		drawer	1	
69		"	1	
70		bot. drawer	1	
71		drawer	1	
72		out. drawers	1	
73		top drawer	1	
74	✓	drawer	1	✓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
75		drawer		
76		bot. drawer	1	See attached LSC Printout
77		drawer	1	
78		out. drawers	1	
79		pull-out	1	
80		drawer	1	
81		"	1	
82		bot. drawer	1	
83		FLOOR	1	
84		"	1	
85		"	1	
86		"	1	
87		"	1	
88		out. shelves	1	
89		top shelf	1	
90		shelf	1	
91		"	1	
92		bot. shelf	1	
93		out. shelves	1	
94		top shelf	1	
95		shelf	1	
96		"	1	
97		bot. shelf	1	
98		top shelf	1	
99		shelf	1	
100		bot. shelf	1	
101		counter	1	
102	✓	"	1	✓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
103		counter		
104		cup sink	1	See attached LSC Printout
105		sides of sink	1	
106		bottom "	1	
107		out. drawer	1	
108		top drawer	1	
109		drawer	1	
110		"	1	
111		bot. drawer	1	
112		drawer	1	
113		mid side drawers	1	
114		top drawer	1	
115		drawer	1	
116		"	1	
117		bot. drawer	1	
118		out. cabinet	1	
119		left	1	
120		bottom	1	
121		right	1	
122		out. shelves	1	
123		top shelf	1	
124		shelf	1	
125		"	1	
126		bot. shelf	1	
127		out. shelves	1	
128		top shelf	1	
129		shelf	1	
130	✓	"	1	↓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
131		ext. shelf	1	See attached LSC Printout
132		out. shelves	1	
133		top shelf	1	
134		shelf	1	
135		"	1	
136		bot. shelf	1	
137		top shelf	1	
138		shelf	1	
139		left shelf	1	
140		rt. shelf	1	
141		desk top	1	
142		counter	1	
143		"	1	
144		"	1	
145		ledge	1	
146		out. drawers	1	
147		top drawer	1	
148		drawer	1	
149		bottom drawer	1	
150		drawer	1	
151		"	1	
152		out. drawers	1	
153		top drawer	1	
154		drawer	1	
155		"	1	
156		bot. drawer	1	
157		drawer	1	
158	✓	out. drawers	1	✓

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
159		top drawer		
160		drawer	1	See attached LSC Printout
161		"	1	
162		bot. drawer	1	
163		out. cabinet	1	
164		top drawer	1	
165		top shelf	1	
166		bot. shelf	1	
167		floor	1	
168		"	1	
169		"	1	
170		"	1	
171		"	1	
172		top shelf	1	
173		shelf	1	
174		bot. shelf	1	
175		top shelf	1	
176		shelf	1	
177		bot. shelf	1	
178		top shelf	1	
179		shelf	1	
180		left shelf	1	
181		rt. shelf	1	
182		desktop	1	
183		counter	1	
184		"	1	
185		"	1	
186	✓	cup sink	1	✓

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Date 1/8/07

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
187		Out. Cabinet		
188		Top drawer	1	See attached LSC Printout
189		Top shelf	1	
190		bot. shelf	1	
191		drawer	1	
192		Out. drawers	1	
193		Top drawer	1	
194		drawer	1	
195		"	1	
196		bot. drawer	1	
197		drawer	1	
198		Out. drawers	1	
199		Top drawer	1	
200		drawer	1	
201		"	1	
202		bot. drawer	1	
203		drawer	1	
204		Out. drawer	1	
205		top drawer	1	
206		drawer	1	
207		bot. drawer	1	
208		Floor	1	
209		"	1	
210		"	1	
211		"	1	
212		"	1	
213		"	1	
214	✓	WOOD	1	✓



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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
215		Wall		
216		"	1	See attached LSC Printout
217		Top Shelf	1	
218		Bot. Shelf	1	
219		Counter	1	
220		"	1	
221		"	1	
222		drawers	1	
223		"	1	
224		Cabinet	1	
225		wall	1	
226		Cabinet	1	
227		glass	1	
228		"	1	
229		shelves	1	
230		"	1	
231		Cabinet	1	
232		edge	1	
233		desk	1	
234		door	1	
235		OUT. shelves	1	
236		top shelf	1	
237		shelf	1	
238		"	1	
239		bot. shelf	1	
240		top shelf	1	
241		shelf	1	
242	✓	left shelf	1	

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No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm <sup>2</sup> )
243		rt. shelf		
244		desk top	1	See attached LSC Printout
245		counter	1	
246		"	1	
247		"	1	
248		out. drawer	1	
249		pull-out	1	
250		drawer	1	
251		"	1	
252		bot. drawer	1	
253		drawer	1	
254		"	1	
255		out. drawers	1	
256		top drawer	1	
257		drawer	1	
258		"	1	
259		bot. drawer	1	
260		out. drawers	1	
261		top drawer	1	
262		drawer	1	
263		"	1	
264		bot. drawer	1	
265		out. cabinet	1	
266		top drawer	1	
267		top shelf	1	
268		bot. shelf	1	
269			1	
270	✓		1	✓



ID: DEFAULT VALUES

5 JAN 2001 15:45

USER:12 COMMENT:

PRESET TIME : 1.00  
 TA CALC : DL DPM HI# YES SAMPLE REPEATS: 1 PRINTED :  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 EDIT :  
 TWO PHASE : NO ABC : YES CYCLE REPEATS : 1 EDIT :  
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION: NO

ISOTOPE 1: 3H XERROR: 2.00 FACTOR: 1.0000 DPM SUB:  
 ISOTOPE 2: 14C XERROR: 2.00 FACTOR: 1.0000 DPM SUB:  
 WIDE GPS WINDOW XERROR: 0.00 FACTOR: 1.0000 DPM SUB:

BACKGROUND QUENCH CURVE: D\* COLOR QUENCH CORRECTION: 0.00

Quench Limits Low: 23.385 High: 236.34

SAM NO	HI#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	RATIO	LUMEX %
		Blank Average	11.00 DPM	36.00	32.46	14.42	2.251	1.29
		Blank Average	DPM	for 3H :	32.46	COEF. OF VAR:		0.000
		Blank Average	DPM	for 14C :	14.42	COEF. OF VAR:		0.000
1	76.0	14.00	12.00	40.00	-9.04	1.40	-6.462	1.42
2	78.5	19.00	7.00	36.00	4.48	-5.36	-0.835	1.80
3	81.0	16.00	13.00	38.00	-4.68	2.74	-1.707	1.15
4	85.3	14.00	6.00	35.00	-4.77	-6.60	0.722	1.80
5	80.8	15.00	12.00	42.00	-6.36	1.42	-4.485	1.08
6	81.2	17.00	8.00	35.00	0.12	-3.98	-0.031	1.24
7	82.8	15.00	11.00	29.00	-5.57	0.09	-61.95	1.26
8	79.2	12.00	5.00	26.00	-9.35	-7.92	1.181	1.41
9	83.1	14.00	9.00	32.00	-6.65	-2.58	2.582	1.63
10	90.8	15.00	11.00	33.00	-4.46	0.14	-31.30	2.00
11	90.1	11.00	11.00	29.00	-14.52	0.14	-104.7	1.20
12	93.2	10.00	7.00	27.00	-13.37	-5.15	2.596	1.99
13	84.9	20.00	11.00	39.00	5.73	0.02	334.14	1.40
14	85.8	15.00	10.00	36.00	-4.63	-1.24	3.749	1.91
15	80.7	17.00	15.00	36.00	-3.62	5.40	-0.670	0.88
16	79.5	10.00	9.00	26.00	-15.68	-2.53	6.202	2.52
17	84.8	15.00	11.00	37.00	-5.31	0.10	-51.67	3.01
18	81.6	14.00	2.00	23.00	-3.17	-11.97	0.264	2.31
19	81.8	20.00	8.00	38.00	6.72	-4.03	-1.669	1.77
20	77.0	11.00	6.00	24.00	-12.22	-6.57	1.859	1.12
21	100.4	16.00	9.00	36.00	0.59	-2.52	-0.232	2.85
22	79.1	17.00	9.00	32.00	-0.73	-2.65	0.276	1.20
23	94.5	12.00	6.00	26.00	-8.04	-6.53	1.231	1.63
24	77.4	13.00	8.00	29.00	-8.96	-3.93	2.280	1.44
25	97.3	17.00	11.00	41.00	1.22	0.15	8.277	0.87
26	75.3	20.00	12.00	43.00	3.49	1.30	2.697	1.34
27	84.2	19.00	9.00	36.00	4.46	-2.66	-1.681	1.23
28	94.8	6.00	12.00	27.00	-25.34	1.68	-15.04	1.80
29	76.8	14.00	8.00	37.00	-6.91	-3.95	1.750	1.42
30	78.4	17.00	13.00	37.00	-2.89	2.71	-1.068	1.05
31	79.4	16.00	13.00	41.00	-4.89	2.73	-1.792	1.24
32	77.3	13.00	4.00	23.00	-6.93	-9.28	0.746	1.48
33	79.4	21.00	5.00	33.00	9.97	-8.07	-1.235	2.68
34	86.0	8.00	8.00	25.00	-19.04	-3.80	5.008	3.18
35	78.1	8.00	9.00	24.00	-20.05	-2.50	8.011	1.61
36	81.2	12.00	9.00	36.00	-11.22	-2.55	4.395	1.15

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	RATIO	DATE, LUMEX %
37	81.0	13.00	9.00	30.00	-9.07	-2.57	3.530	1.34
38	78.8	18.00	4.00	32.00	3.94	-9.36	-0.421	1.32
39	77.2	13.00	10.00	35.00	-10.01	-1.25	7.992	1.31
40	106.3	9.00	11.00	30.00	-16.86	0.37	-46.14	2.05
41	93.5	13.00	19.00	40.00	-13.19	11.00	-1.199	1.05
42	84.4	6.00	11.00	25.00	-25.14	0.25	-98.73	1.76
43	91.9	16.00	14.00	37.00	-3.69	4.18	-0.883	1.51
44	82.2	19.00	13.00	47.00	2.00	2.70	0.741	0.85
45	85.6	10.00	13.00	32.00	-17.33	2.88	-6.012	1.33
46	87.2	17.00	3.00	30.00	3.83	-10.68	-0.358	1.84
47	89.8	14.00	14.00	36.00	-8.52	4.20	-2.031	1.69
48	95.9	20.00	11.00	40.00	7.98	0.08	95.647	1.75
49	83.3	13.00	14.00	34.00	-11.47	4.15	-2.761	1.14
50	87.0	10.00	7.00	25.00	-13.98	-5.18	2.700	3.44
51	117.6	14.00	12.00	39.00	-3.16	1.71	-1.843	1.90
52	87.7	18.00	13.00	43.00	0.71	2.76	0.257	1.18
53	89.6	14.00	10.00	35.00	-6.35	-1.20	5.313	1.31
54	84.1	12.00	12.00	36.00	-12.52	1.49	-8.386	1.18
55	85.3	21.00	17.00	49.00	4.80	8.07	0.595	1.42
56	86.2	14.00	7.00	36.00	-5.18	-5.25	0.986	1.42
57	81.1	14.00	7.00	32.00	-5.86	-5.27	1.113	1.44
58	80.7	14.00	7.00	30.00	-5.90	-5.27	1.120	1.38
59	86.8	19.00	12.00	40.00	3.33	1.39	2.394	0.75
60	94.2	17.00	11.00	38.00	0.67	0.13	5.237	1.17
61	82.8	9.00	12.00	31.00	-19.18	1.53	-12.51	1.27
62	80.9	15.00	12.00	37.00	-6.34	1.42	-4.473	0.94
63	79.1	17.00	16.00	42.00	-4.35	6.73	-0.647	0.70
64	79.2	10.00	10.00	29.00	-16.22	-1.19	13.628	1.14
65	83.3	13.00	8.00	30.00	-8.28	-3.90	2.123	1.47
66	79.3	17.00	11.00	36.00	-1.73	0.03	-51.58	0.84
67	76.2	11.00	13.00	39.00	-15.86	2.79	-5.690	0.76
68	81.2	15.00	16.00	37.00	-8.39	6.78	-1.237	0.74
69	83.8	11.00	8.00	28.00	-12.61	-3.86	3.263	1.41
70	81.8	13.00	9.00	31.00	-8.99	-2.57	3.502	0.88
71	77.0	18.00	14.00	42.00	-1.48	4.02	-0.368	0.66
72	80.1	17.00	5.00	30.00	1.51	-8.00	-0.189	0.87
73	81.6	13.00	10.00	39.00	-9.53	-1.23	7.777	1.06
74	80.1	19.00	6.00	39.00	5.28	-6.70	-0.789	0.91
75	79.9	11.00	10.00	33.00	-14.02	-1.20	11.658	0.63
76	79.2	15.00	9.00	35.00	-5.00	-2.61	1.913	1.02
77	79.8	17.00	13.00	35.00	-2.70	2.72	-0.994	1.11
78	81.1	16.00	15.00	44.00	-5.72	5.43	-1.053	0.69
79	81.1	16.00	9.00	34.00	-2.59	-2.62	0.987	0.98
80	79.7	13.00	4.00	23.00	-6.62	-9.28	0.714	2.72
81	82.7	15.00	7.00	26.00	-3.47	-5.28	0.658	1.54
82	88.4	15.00	10.00	34.00	-4.27	-1.22	3.498	4.23
83	82.3	9.00	11.00	25.00	-18.69	0.19	-99.48	2.38
84	89.3	14.00	9.00	32.00	-5.84	-2.54	2.295	2.42
85	91.1	10.00	12.00	30.00	-16.36	1.58	-10.34	1.48
86	85.9	14.00	11.00	30.00	-7.38	0.13	-58.09	2.14
87	96.6	18.00	9.00	39.00	4.59	-2.58	-1.780	1.63
88	84.5	13.00	13.00	37.00	-10.81	2.82	-3.829	2.33
89	90.4	13.00	7.00	31.00	-6.84	-5.22	1.312	3.46
90	85.7	14.00	11.00	30.00	-7.39	0.13	-58.61	1.67
91	563.7	0.00	1.94	27.74	-300.17	-2.59	115.86	0.33
WARNING: QUENCH VALUE IS OUTSIDE QUENCH LIMIT								
92	88.3	14.00	13.00	33.00	-8.16	2.84	-2.876	1.13
93	83.1	15.00	10.00	33.00	-5.00	-1.25	3.995	1.06

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	RATIO	LUMEX %
84	89.2	15.00	12.00	32.00	-5.24	1.48	-3.545	2.57
85	86.5	12.00	17.00	37.00	-14.98	8.24	-1.819	1.27
96	86.8	22.00	15.00	42.00	8.39	5.37	1.560	1.30
97	85.4	15.00	8.00	31.00	-3.61	-3.93	0.920	1.76
98	90.8	14.00	8.00	32.00	-5.08	-3.88	1.309	7.02
99	89.5	13.00	13.00	33.00	-10.27	2.86	-3.586	1.63
100	87.9	13.00	11.00	36.00	-9.35	0.16	-59.09	1.21
101	86.9	18.00	11.00	38.00	1.66	0.06	25.888	1.28
102	85.2	8.00	11.00	36.00	-20.70	0.23	-91.35	2.30
103	87.8	20.00	11.00	42.00	6.28	0.03	182.47	2.36
104	87.9	14.00	9.00	38.00	-6.03	-2.55	2.363	2.74
105	87.5	18.00	12.00	40.00	1.21	1.41	0.859	0.97
106	85.5	13.00	10.00	40.00	-9.09	-1.20	7.561	1.89
107	82.7	10.00	12.00	48.00	-17.01	1.52	-11.22	0.85
108	89.8	5.00	11.00	19.00	-27.22	0.31	-86.77	1.13
109	82.7	15.00	10.00	36.00	-5.05	-1.25	4.033	0.78
110	85.1	11.00	10.00	27.00	-13.55	-1.17	11.581	1.40
111	86.6	12.00	11.00	35.00	-11.73	0.17	-70.23	1.92
112	89.0	16.00	14.00	36.00	-4.12	4.15	-0.991	1.09
113	85.1	12.00	8.00	26.00	-10.28	-3.88	2.652	1.39
114	86.8	9.00	12.00	28.00	-18.93	1.57	-12.09	2.98
115	89.0	18.00	13.00	42.00	0.92	2.77	0.334	1.79
116	84.4	13.00	9.00	34.00	-8.69	-2.55	3.404	1.73
117	89.7	17.00	8.00	32.00	1.55	-3.94	-0.393	4.21
118	81.3	22.00	6.00	39.00	12.01	-6.74	-1.780	0.60
119	85.7	15.00	11.00	39.00	-5.18	0.11	-47.68	0.93
120	94.1	13.00	13.00	39.00	-9.74	2.90	-3.357	1.39
121	83.2	10.00	7.00	24.00	-14.32	-5.19	2.758	1.97
122	85.3	13.00	12.00	33.00	-10.19	1.48	-6.860	2.11
123	88.1	15.00	18.00	37.00	-8.66	9.55	-0.907	1.32
124	93.2	14.00	4.00	27.00	-2.48	-9.27	0.268	1.69
125	86.9	9.00	9.00	26.00	-17.29	-2.47	7.003	1.63
126	93.4	19.00	11.00	46.00	5.14	0.09	59.248	2.17
127	91.8	15.00	13.00	34.00	-5.44	2.85	-1.911	1.75
128	82.9	17.00	7.00	32.00	0.92	-5.31	-0.174	1.50
129	96.6	12.00	4.00	29.00	-6.61	-9.23	0.716	1.38
130	91.2	16.00	15.00	35.00	-4.35	5.52	-0.788	1.98
131	94.0	16.00	15.00	37.00	-3.94	5.55	-0.711	1.10
132	87.1	20.00	12.00	37.00	5.62	1.38	4.082	0.92
133	95.8	14.00	8.00	28.00	-4.34	-3.86	1.124	4.33
134	100.6	14.00	7.00	27.00	-3.00	-5.20	0.577	2.09
135	100.0	15.00	13.00	37.00	-4.24	2.91	-1.454	1.14
136	84.8	8.00	7.00	22.00	-18.58	-5.15	3.607	3.67
137	103.8	6.00	12.00	29.00	-25.01	1.76	-14.18	2.55
138	95.1	15.00	8.00	27.00	-2.13	-3.88	0.548	2.25
139	86.8	7.00	10.00	35.00	-22.29	-1.09	20.455	1.31
140	85.4	13.00	8.00	32.00	-8.03	-3.89	2.065	1.21
141	93.6	13.00	6.00	32.00	-5.84	-6.55	0.892	1.62
142	91.8	18.00	10.00	38.00	3.10	-1.25	-2.471	0.98
143	98.2	11.00	13.00	36.00	-13.97	2.97	-4.697	5.39
144	98.8	9.00	11.00	33.00	-17.50	0.31	-56.73	2.00
145	98.8	16.00	8.00	31.00	0.87	-3.89	-0.224	1.75
146	84.5	15.00	10.00	36.00	-4.80	-1.24	3.867	0.83
147	86.0	13.00	12.00	35.00	-10.11	1.49	-6.784	0.89
148	85.0	12.00	14.00	38.00	-13.40	4.20	-3.194	1.02
149	99.8	18.00	5.00	32.00	7.59	-7.99	-0.950	1.64
150	86.3	9.00	10.00	35.00	-17.88	-1.13	15.849	1.10
151	83.1	12.00	15.00	34.00	-14.20	5.51	-2.576	1.01

SAM NO	H#	CPM			3H DPM	14C DPM	RATIO	LUMEX %
		3H	14C	WIDE				
152	85.2	10.00	5.00	26.00	-13.06	-7.87	1.660	1.21
153	83.7	14.00	9.00	30.00	-6.58	-2.57	2.558	1.24
154	88.4	12.00	8.00	35.00	-9.90	-3.86	2.566	0.94
155	86.4	17.00	10.00	36.00	-0.10	-1.27	0.077	1.34
156	85.0	14.00	7.00	30.00	-5.34	-5.25	1.016	1.37
157	84.2	17.00	5.00	32.00	2.21	-8.00	-0.276	0.79
158	86.1	21.00	10.00	43.00	8.72	-1.34	-6.519	1.01
159	83.8	13.00	10.00	33.00	-9.28	-1.21	7.657	1.26
160	82.3	16.00	7.00	34.00	-1.36	-5.30	0.256	0.70
161	87.2	17.00	11.00	41.00	-0.51	0.08	-6.154	1.29
162	89.5	27.00	11.00	42.00	22.42	-0.08	1.117	2.03
163	80.4	15.00	10.00	30.00	-5.36	-1.27	4.232	0.86
164	110.7	10.00	12.00	28.00	-14.60	1.74	-8.395	1.48
165	104.2	9.00	9.00	27.00	-15.84	-2.37	6.690	1.04
166	90.9	15.00	8.00	31.00	-2.79	-3.90	0.716	1.18
167	86.9	12.00	7.00	29.00	-9.54	-5.21	1.829	1.60
168	89.0	15.00	13.00	43.00	-5.82	2.82	-2.062	0.79
169	90.9	13.00	2.00	21.00	-4.01	-11.96	0.335	1.80
170	94.3	16.00	11.00	37.00	-1.63	0.15	-11.04	1.31
171	91.4	14.00	11.00	32.00	-6.65	0.16	-40.47	1.13
172	97.3	15.00	11.00	33.00	-3.49	0.19	-18.87	3.05
173	89.1	15.00	9.00	35.00	-3.61	-2.56	1.408	2.04
174	93.5	18.00	7.00	32.00	5.11	-5.30	-0.965	1.53
175	102.9	16.00	8.00	34.00	1.65	-3.87	-0.426	4.76
176	93.1	10.00	8.00	24.00	-13.95	-3.80	3.669	1.96
177	94.4	13.00	13.00	34.00	-9.70	2.90	-3.340	1.05
178	89.6	11.00	7.00	27.00	-11.47	-5.18	2.212	2.06
179	84.9	12.00	14.00	35.00	-13.51	4.19	-3.226	0.78
180	89.8	13.00	12.00	32.00	-9.68	1.52	-6.377	1.34
181	87.4	15.00	9.00	29.00	-3.87	-2.57	1.504	1.26
182	128.0	15.00	14.00	39.00	0.32	4.54	0.071	2.08
183	93.5	7.00	11.00	30.00	-22.51	0.31	-73.60	1.47
184	93.3	14.00	10.00	36.00	-5.84	-1.17	4.979	1.03
185	99.8	22.00	17.00	49.00	10.12	8.20	1.234	1.50
186	93.3	18.00	14.00	42.00	1.12	4.15	0.271	1.21
187	83.9	14.00	10.00	34.00	-7.09	-1.23	5.767	1.07
188	89.1	8.00	11.00	27.00	-20.47	0.26	-80.28	2.08
189	86.1	19.00	8.00	33.00	5.35	-3.99	-1.341	0.78
190	90.0	17.00	6.00	28.00	2.70	-6.64	-0.408	1.13
191	85.2	14.00	9.00	35.00	-6.39	-2.57	2.491	0.90
192	82.2	16.00	6.00	40.00	-0.84	-6.64	0.127	0.60
193	87.6	16.00	16.00	40.00	-5.40	6.83	-0.791	0.68
194	89.6	12.00	4.00	23.00	-7.56	-9.24	0.818	1.00
195	89.6	15.00	13.00	41.00	-5.74	2.83	-2.027	0.73
196	93.3	13.00	7.00	32.00	-6.45	-5.21	1.239	1.27
197	90.2	13.00	5.00	28.00	-5.77	-7.91	0.730	2.38
198	86.1	16.00	8.00	36.00	-1.29	-3.94	0.326	0.63
199	85.6	19.00	10.00	37.00	4.19	-1.31	-3.206	0.90
200	85.0	11.00	6.00	25.00	-11.42	-6.55	1.744	1.65
201	83.9	11.00	8.00	30.00	-12.60	-3.86	3.261	1.53
202	87.0	12.00	11.00	31.00	-11.69	0.17	-69.01	1.00
203	86.1	13.00	9.00	31.00	-8.49	-2.54	3.336	1.18
204	82.7	18.00	10.00	33.00	1.49	-1.30	-1.139	0.97
205	83.5	12.00	18.00	38.00	-15.76	9.54	-1.651	1.18
206	83.5	14.00	10.00	34.00	-7.14	-1.23	5.796	0.81
207	88.2	18.00	12.00	38.00	1.34	1.42	0.947	1.34
208	99.3	14.00	9.00	35.00	-4.38	-2.49	1.759	1.56
209	92.8	23.00	10.00	42.00	14.76	-1.34	-11.02	1.58

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LUMEX %

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	RATIO	LUMEX %
210	106.8	16.00	8.00	35.00	2.42	-3.85	-0.628	1.46
211	94.0	11.00	6.00	23.00	-10.42	-6.52	1.599	1.92
212	88.9	16.00	11.00	36.00	-2.49	0.11	-22.30	1.19
213	97.3	14.00	8.00	28.00	-4.11	-3.86	1.066	1.47
214	84.8	22.00	16.00	47.00	7.43	6.70	1.109	0.72
215	83.7	18.00	7.00	38.00	3.24	-5.33	-0.609	0.76
216	83.2	16.00	9.00	36.00	-2.27	-2.61	0.869	0.87
217	93.0	21.00	15.00	48.00	7.41	5.45	1.361	1.04
218	85.9	18.00	11.00	43.00	1.50	0.06	25.740	0.75
219	88.0	12.00	12.00	39.00	-12.13	1.52	-7.968	0.79
220	89.0	13.00	14.00	33.00	-10.87	4.21	-2.585	1.37
221	87.5	18.00	10.00	39.00	2.31	-1.28	-1.805	0.86
222	86.9	22.00	9.00	44.00	11.66	-2.70	-4.323	0.43
223	88.5	20.00	11.00	39.00	6.42	0.04	165.90	1.10
224	92.5	12.00	9.00	28.00	-9.97	-2.49	4.004	1.30
225	87.1	18.00	7.00	33.00	3.87	-5.32	-0.729	1.01
226	82.4	13.00	14.00	38.00	-11.55	4.15	-2.786	0.66
227	83.7	20.00	8.00	34.00	7.10	-4.02	-1.766	1.51
228	86.2	20.00	7.00	40.00	8.13	-5.35	-1.519	0.35
229	122.6	16.00	13.00	36.00	2.59	3.08	0.839	2.92
230	92.7	12.00	7.00	28.00	-8.84	-5.19	1.703	1.03
231	87.2	16.00	9.00	33.00	-1.66	-2.59	0.641	1.12
232	94.3	17.00	13.00	36.00	-0.45	2.83	-0.160	1.24
233	92.9	16.00	10.00	35.00	-1.31	-1.21	1.077	1.37
234	95.2	12.00	12.00	33.00	-11.36	1.58	-7.200	1.98
235	89.5	19.00	15.00	44.00	2.18	5.45	0.399	0.63
236	97.7	23.00	11.00	41.00	15.44	0.04	411.08	1.19
237	94.4	17.00	13.00	40.00	-0.43	2.83	-0.152	1.14
238	94.7	14.00	8.00	35.00	-4.50	-3.87	1.164	1.58
239	92.8	21.00	12.00	44.00	9.06	1.40	6.484	1.20
240	88.0	10.00	7.00	22.00	-13.88	-5.17	2.683	3.08
241	83.5	14.00	6.00	32.00	-5.00	-6.60	0.758	0.68
242	87.7	17.00	11.00	36.00	-0.44	0.09	-5.048	1.48
243	92.4	18.00	12.00	40.00	2.08	1.45	1.440	0.93
244	93.4	18.00	7.00	33.00	5.07	-5.30	-0.958	1.47
245	95.5	32.00	14.00	58.00	34.14	3.91	8.721	0.67
246	90.5	12.00	8.00	32.00	-9.66	-3.85	2.509	1.14
247	88.4	14.00	10.00	33.00	-6.50	-1.20	5.408	0.97
248	83.3	21.00	13.00	42.00	6.56	2.68	2.452	0.51
249	89.5	25.00	5.00	41.00	21.22	-8.13	-2.611	0.72
250	88.2	19.00	13.00	36.00	3.04	2.75	1.106	0.64
251	91.6	15.00	7.00	28.00	-2.13	-5.25	0.405	1.21
252	92.2	22.00	14.00	41.00	10.09	4.07	2.477	2.89
253	89.1	18.00	11.00	39.00	2.04	0.08	26.261	1.95
254	81.4	28.00	11.00	50.00	22.41	-0.14	-161.4	0.49
255	89.9	14.00	13.00	33.00	-7.97	2.85	-2.796	0.83
256	87.7	23.00	10.00	45.00	13.53	-1.36	-9.920	0.90
257	91.3	23.00	11.00	43.00	13.83	0.00	7235.3	0.69
258	93.8	23.00	9.00	42.00	15.57	-2.69	-5.798	1.09
259	88.2	23.00	16.00	53.00	10.36	6.72	1.543	0.70
260	85.0	20.00	8.00	38.00	7.36	-4.01	-1.834	0.72
261	89.4	16.00	10.00	35.00	-1.86	-1.23	1.513	0.89
262	96.2	17.00	12.00	38.00	0.45	1.49	0.303	0.72
263	224.0	3.00	16.00	31.00	-37.32	9.67	-3.861	0.10
264	87.9	19.00	15.00	42.00	1.89	5.44	0.348	0.60
265	85.9	22.00	11.00	42.00	10.35	-0.01	-913.1	0.93
266	82.9	21.00	4.00	36.00	11.24	-9.41	-1.194	0.90
267	93.8	16.00	7.00	30.00	0.54	-5.26	-0.102	0.79



SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	RATIO	LUMEX %
268	90.4	20.00	12.00	41.00	6.27	1.40	4.484	0.76

9 JAN 2001 09:22

## I ID: EQUIPMENT SURVY

USER: 3

COMMENT: EQUIPMENT SURVEY

RESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT  
 COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 : EDIT  
 TWO PHASE : NO ADC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0  
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %	
B1	77.7	10.00	6.00	29.00	18.18	7.87	1.50	
		Blank Average DPM for		3H :	18.18	COEF. OF VAR:		0.000
		Blank Average DPM for		14C :	7.87	COEF. OF VAR:		0.000
91	77.7	18.00	11.00	39.00	14.45	6.56	0.62	