

# Radiological Survey Sheet

Job Location Pfizer Gerton 118C C214 Page 1 of 19

Survey Purpose CAS DECON Date 2/22/05

Performed by P. VEECH (Print)  (Sign) cb

<b>Instrument (Model/S/N)</b>	Packard Tri-Carb S/N 431521	Packard Tri-Carb S/N 431520	Ludlum 2241-2 163603	
<b>Det. (Model/SN)</b>	Internal	Internal	Ludlum 43-68 PR 149613	
<b>Type Rad.</b>	$\beta$	$\beta$	$\beta$	
<b>Cal. Due:</b>	10/12/05	10/12/05	03/07/05	
<b>Check Instruments Used</b>	✓	X	X	

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )	
1.	1230	BACKGROUND		
2.	↓	ENTRANCE DOOR / INSIDE		
3.		OUTSIDE		
4.		Wall to LEFT OF DOOR		
5.		Wall to Right OF DOOR		
6.		LEFT WALL ABOVE BENCHTOP		
7.		WALL BEHIND BENCHTOP - UPPER		
8.		- LOWER		
9.		OUTSIDE OF HOOD - LEFT		
10.		BENCHTOP		
11.		5m DRAWS UNDER BENCH - LEFT		
12.		- Right		
13.		CABINET DOORS - LEFT		
14.		- RIGHT		
15.		INSIDE CABINET - LEFT / RIGHT		
16.		- REAR / BOTTOM		
17.		- shelf		
18.		↓	ALCOVE Plexi-Glass Door	

# Radiological Survey Continuation Sheet

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Date 2/22/05

LAB DECON 118C (214)

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
19	1245	ALCOVE - LEFT   RIGHT	
20		- REAR   FLOOR	
21		HOOD - OUTSIDE FRONT - UPPER	
22		- LOWER	
23		- GLASS SASH - OUT	
24		- IN	
25		- INSIDE - LEFT - UPPER	
26		- LOWER	
27		- RIGHT - UPPER	
28		- LOWER	
29		- REAR - UPPER	
30		- LOWER	
31		- BENCHTOP - LEFT	
32		- RIGHT	
33		CABINETS UNDER HOOD - LEFT - DOORS - OUT	
34		- IN	
35		- INSIDE - LEFT   RIGHT	
36		- REAR   BOTTOM	
37		- RIGHT - DOORS - OUT	
38		- IN	
39		- INSIDE - LEFT   RIGHT	
40		- REAR   BOTTOM	
41		Wall to the RIGHT OF HOOD - UPPER	
42		- LOWER	
43		Wall (CABINET #1) - DOORS - OUT	
44	↓	- INSIDE	
45	1300	- INSIDE - LEFT   RIGHT	

CAB DECON 118C C214

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
46	1300	Wall CABINET #1	INSIDE - REAR / Bottom
47			- Shelves
48			outside - under
49		Shelf UNDER CABINET	
50		AREA UNDER shelf	
51		Wall CABINET #2	DOORS - OUT
52			- INSIDE
53			- INSIDE - LEFT / RIGHT
54			- REAR / Bottom
55			- shelves
56			- OUTSIDE - UNDER
57		shelf UNDER CABINET	
58		AREA UNDER shelf	
59		Wall CABINET #3	- INSIDE - LEFT / RIGHT
60			- REAR / Bottom
61			- OUTSIDE - UNDER
62		BENCHTOP	
63		shelves UNDER BENCHTOP	- UPPER
64			- MID
65			- LOWER
66		METAL shelf	- TOP
67			- Bottom
68			- SUPPORTS
69		BENCHTOP shelf	
70		Plexi-Glass shield	
71		BENCHTOP	- LEFT
72	1315		- RIGHT



LAB PECON 118C (214)

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
73	1315	DRAWS UNDER BENCHTOP - LEFT - TOP	OUT/IN
74		- UPPER MIDDLE	↓ ↓
75		- LOWER MIDDLE	↓ ↓
76		- Bottom	OUT/IN
77		- Right - TOP	OUT/IN
78		- UPPER MID	↓ ↓
79		- LOWER MID	↓ ↓
80		- Bottom	OUT/IN
81		METAL RACK - TOP	
82		- Bottom	
83		- SUPPORTS	
84		BENCHTOP shelf	
85		Plexi-Glass shield	
86		BENCHTOP - LEFT	
87		- RIGHT	
88	DRAW - LEFT - OUT/IN		
89	ACOVE UNDER BENCHTOP - LEFT / RIGHT		
90	- REAR / FLOOR		
91	DRAWS - RIGHT - TOP	OUT/IN	
92	- UPPER MID	↓ ↓	
93	- LOWER MID	↓ ↓	
94	- Bottom	OUT/IN	
95	BENCHTOP		
96	DRAWS UNDER BENCHTOP - TOP	OUT/IN	
97	- UPPER MID	↓ ↓	
98	- LOWER MID	↓ ↓	
99	1330	- Bottom	OUT/IN

CAB DECON 118C.214

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
100	1330	BENCHTOP SWIPE	
101		OUTSIDE OF DRAW AREA - LEFT	
102		- RIGHT	
103		BENCHTOP	
104		DRAW UNDER BENCHTOP OUT/IN	
105		CABINET DOORS - LEFT - OUT/IN	
106		- RIGHT - OUT/IN	
107		- INSIDE CABINET - LEFT / RIGHT	
108		- REAR / BOTTOM	
109		- shelf	
110		METAL FLOW Valves - ORANGE	
111		- Yellow	
112		- GREEN	
113		- BROWN	
114		- BLUE	
115		BENCHTOP - LEFT	
116		- RIGHT	
117		- BASIN	
118		DRAW - LEFT - OUT/IN	
119		ALCOVE UNDER BENCH - LEFT / RIGHT	
120		- REAR / BOTTOM	
121		DRAWS - TOP OUT/IN	
122		- UPPER MID ↓ ↓	
123		- LOWER MID ↓ ↓	
124		- Bottom OUT/IN	
125	↓	Flow Valves - ORANGE	
126	1345	- Yellow	

LAB DECON 118L (2184)

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
127	1345	Flow Valve - GREEN	
128		- BROWN	
129		- BLUE	
130		BENCHTOP - LEFT	
131		- RIGHT	
132		- BASIN	
133		DRAW - OUT / IN	
134		ALOVE - LEFT / RIGHT	
135		- REAR / BOTTOM	
136		DRAWS - TOP	OUT / IN
137		- UPPER MID	↓ ↓
138		- LOWER MID	
139		- Bottom	OUT / IN
140		BENCHTOP	
141		shelves UNDER BENCHTOP - TOP	
142		- MID	
143		- Bottom	
144		OVERHEAD CABINET # 4 - DOORS -	OUT
145			- INSIDE
146			- INSIDE - LEFT / RIGHT
147			- REAR / BOTTOM
148			- shelves
149			- OUTSIDE - UNDER
150		shelf UNDER CABINET	
151		AREA UNDER shelf	
152	✓	OVERHEAD CABINET # 5 - DOORS -	OUT
153	1330		- IN



CAB DECON 118C CZ184

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
154	1330	OVERHEAD CABINET #5 - INSIDE - LEFT   RIGHT	
155		- REAR   BOTTOM	
156		- SHELVES	
157		- OUTSIDE - UNDER	
158		shelf UNDER CABINET	
159		AREA UNDER shelf	
160		DESKTOP shelves	
161		DESKTOP	
162		DRAW - RIGHT - TOP - OUT   IN	
163		- MID ↓ ↓	
164		- BOT - OUT   IN	
165		DRAW ABOVE ALCOVE - OUT   IN	
166		ALCOVE - LEFT   RIGHT	
167		- REAR   FLOOR	
168		METAL shelf - TOP	
169		- BOTTOM	
170		- SUPPORTS	
171	BENCHTOP shelf		
172	BENCHTOP - LEFT		
173	- RIGHT		
174	DRAW - TOP - OUT   IN		
175	- UPPER MID ↓ ↓		
176	- LOWER MID ↓ ↓		
177	- BOTTOM - OUT   IN		
178	DRAW ABOVE ALCOVE - OUT   IN		
179	✓ ALCOVE - LEFT   RIGHT		
180	1345	- REAR   BOTTOM	

(LAB DECON) 118C C214

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
181	1345	METAL SHELF - TOP	
182		-Bottom	
183		-SUPPORTS	
184		BENCHTOP SHELF	
185		BENCHTOP SWIPE - LEFT / RIGHT	
186		- RIGHT	
187		DRAWS - TOP - OUT/IN	
188		- UPPER MID ↓ ↓	
189		- LOWER MID ↓ ↓	
190		- BOTTOM OUT/IN	
191		DRAW ABOVE ALCOVE - OUT/IN	
192		ALCOVE - LEFT / RIGHT	
193		- REAR / FLOOR	
194		BENCHTOP SWIPE	
195		DRAWS - TOP	
196		- UPPER MID	
197		- LOWER MID	
198		- Bottom	
199		OUTSIDE DRAW UNIT - LEFT	
200		- RIGHT	
201		BENCHTOP SWIPE	
202		DRAW - OUT	
203		- INSIDE	
204		CABINET - DOORS - OUT	
205		- IN	
206	✓	- INSIDE - LEFT / RIGHT	
207	1400	- REAR / BOTTOM	



LAB DECON

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
208	1400	Flow Valves	- ORANGE
209			- Yellow
210			- GREEN
211			- BROWN
212			- BLUE
213		BENCHTOP	- LEFT
214			- RIGHT
215			- BASIN
216		DRAW above ALCOVE	- OUT / IN
217		ALCOVE	- LEFT / RIGHT
218			- REAR / Bottom
219		DRAWS	- TOP - OUT / IN
220			- UPPER MID ↓ ↓
221			- LOWER MID ↓ ↓
222			- Bottom OUT / IN
223		Flow Valves	- ORANGE
224			- Yellow
225			- GREEN
226			- BROWN
227			- BLUE
228		BENCHTOP SWIPE	- LEFT
229			- RIGHT
230		BASIN	
231		DRAW above ALCOVE	- OUT / IN
232		ALCOVE	- LEFT / RIGHT
233			- REAR / FLOOR
234	1515	DRAWS	- TOP - OUT / IN

LAB DECON 118C L214

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
235	1415	DRAWN - UPPER MID	- OUT/IN
236			- LOWER MID - OUT/IN
237			- Bottom - OUT/IN
238		Desk shelves	
239		DESK TOP	
240		DRAW ABOVE ALCOVE	- OUT/IN
241		ALCOVE	- LEFT / RIGHT
242			- REAR / FLOOR
243		DRAWN - TOP	- OUT/IN
244			- MID ↓ ↓
245			- Bottom - OUT/IN
246		OVERHEAD CABINET # 6	- DOORS - OUT
247			- INSIDE
248			- INSIDE - LEFT / RIGHT
249			- REAR / BOTTOM
250			- shelves
251			OUTSIDE - BOTTOM / RIGHT SIDE
252		shelf UNDER CABINET	
253		AREA UNDER shelf	
254		WALL	- LEFT
255			- Right
256		shelves	- TOP
257			- Bottom
258		GLASS DOOR	- OUT/IN
259		OFFICE DESK	
260		shelves	
261	1430	FLOOR	

CAB DECON 118C CZ14

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
262	1430	Wall	
263		Class Door - OUT/IN	
264		Desk	
265		shelves	
266		Floor	
267		Wall	
268		Wall - upper	
269		- Lower	
270		TABLETOP	
271		LEGS	
272		Wall - LEFT	
273		- RIGHT	
274		Eyewash / FAUCET	
275		BASIN - LEFT / RIGHT	
276		- FRONT / REAR	
277		- Bottom / DRAIN	
278		CABINET DOORS - OUT	
279		- INSIDE	
280		- INSIDE - LEFT / RIGHT	
281		- REAR / Bottom	
282		OVERHEAD CABINET #7 - DOORS - OUT	
283		- INSIDE	
284		- INSIDE - LEFT / RIGHT	
285		- REAR / Bottom	
286		- Shelves	
287		FAUCET	
288	1445	Flow Values	





O = wipe locations



All AREAS surveyed with Ludlum 2241-2 AND FOUND TO BE Within limits

Protocol# 10 - Room Decon.lsa

Lab Decon Swipes 118C C214

User: Peter Keefe

Assay Definition-

Assay Description:  
Rad Room Monthly Swipes

Assay Type: CPM  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon  
Raw Results Path: C:\Packard\Tricarb\Results\Peter Keefe\Room Decon\20050224\_1623.results  
Assay File Name: C:\Packard\TriCarb\Assays\Room Decon.lsa

Count Conditions-

Nuclide: TRIPLE  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Set: n/a  
Count Time (min): 1.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off  
Low CPM Threshold: Off  
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	18.6
B	18.6	156.0
C	0.0	2000.0

Count Corrections-

Static Controller: On Luminescence Correction: On  
Colored Samples: n/a Heterogeneity Monitor: n/a  
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES
1	22	8	36	
2	18	6	31	
3	5	9	17	
4	23	7	36	
5	2	10	19	
6	13	6	22	
7	14	9	28	
8	34	10	51	
9	8	6	21	
10	15	7	31	
11	12	8	27	
12	11	5	19	
13	4	12	22	



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User: Peter Keefe

Lab Decon Swipes 118C C214

14	19	4	28
15	17	7	35
16	6	11	18
17	18	9	36
18	13	5	28
19	17	2	25
20	19	5	30
21	6	4	16
22	13	10	32
23	18	4	30
24	14	3	22
25	11	4	24
26	17	2	26
27	23	9	35
28	15	15	39
29	13	13	33
30	18	9	35
31	14	1	20
32	19	11	34
33	10	3	21
34	19	7	33
35	14	2	27
36	3	7	10
37	2	5	9
38	18	11	38
39	13	3	20
40	17	7	29
41	14	8	27
42	10	10	26
43	5	8	22
44	11	5	19
45	13	7	22
46	8	6	21
47	18	6	29
48	7	7	18
49	6	6	18
50	31	7	43
51	19	6	30
52	8	6	21
53	5	8	16
54	7	8	22
55	14	11	34
56	11	11	26
57	6	7	22
58	19	7	34
59	3	8	19
60	10	10	25
61	13	11	32
62	4	9	17
63	19	9	35
64	23	17	44
65	20	9	37
66	5	9	20
67	7	4	18
68	13	7	24
69	0	7	14
70	24	5	33
71	18	7	33
72	8	9	22
73	23	9	39
74	10	5	20
75	20	4	27
76	22	9	40

Protocol# 10 - Room Decon.lsa

User: Peter Keefe

## Lab Decon Swipes 118C C214

77	13	2	24
78	0	5	14
79	22	3	35
80	28	6	42
81	26	6	39
82	15	6	31
83	3	1	6
84	17	10	34
85	29	5	40
86	20	6	32
87	14	4	26
88	16	8	29
89	9	5	21
90	18	10	38
91	0	10	14
92	22	8	44
93	25	8	39
94	10	6	21
95	15	14	38
96	8	4	24
97	20	3	28
98	15	5	25
99	14	5	25
100	23	10	37
101	1	6	12
102	12	10	28
103	6	8	23
104	34	8	49
105	17	15	40
106	7	5	22
107	0	8	4
108	7	4	14
109	12	4	23
110	25	5	37
111	2	10	21
112	32	2	36
113	14	6	28
114	12	6	21
115	21	6	38
116	21	12	38
117	6	7	18
118	14	2	24
119	5	11	24
120	0	9	7
121	16	5	27
122	5	7	18
123	25	8	37
124	28	7	39
125	31	7	45
126	10	11	23
127	18	2	24
128	10	9	23
129	8	8	18
130	16	5	23
131	18	7	37
132	15	10	32
133	27	10	47
134	24	14	49
135	14	3	23
136	14	7	24
137	16	2	28
138	20	8	32
139	13	13	33

Protocol# 10 - Room Decon.lsa

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## Lab Decon Swipes 118C C214

140	26	5	34
141	24	4	32
142	7	8	20
143	13	9	28
144	30	9	40
145	17	4	28
146	5	6	17
147	8	8	21
148	12	3	22
149	26	7	39
150	13	11	27
151	12	3	16
152	11	4	25
153	21	8	36
154	21	9	41
155	6	5	15
156	12	6	22
157	27	10	40
158	17	6	32
159	16	8	27
160	4	6	15
161	14	2	25
162	9	5	23
163	14	10	34
164	11	7	23
165	3	12	20
166	14	10	27
167	10	3	20
168	33	5	44
169	11	4	30
170	20	13	37
171	21	7	37
172	16	3	29
173	0	12	19
174	18	3	23
175	0	5	8
176	10	6	23
177	4	10	16
178	20	12	37
179	15	5	26
180	0	7	10
181	11	8	24
182	5	6	17
183	3	12	20
184	31	7	42
185	12	7	27
186	11	7	27
187	20	14	41
188	0	7	8
189	21	9	38
190	0	8	15
191	37	10	53
192	11	6	30
193	8	4	15
194	33	4	41
195	18	8	32
196	9	9	23
197	0	4	1
198	12	7	27
199	3	8	16
200	16	3	25
201	23	9	37
202	15	7	28



Protocol# 10 - Room Decon.lsa

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Lab Decon Swipes 118C C214

203	21	8	36
204	13	10	34
205	22	7	39
206	19	9	36
207	0	7	4
208	17	7	26
209	15	8	25
210	17	4	24
211	18	6	30
212	34	7	47
213	15	7	27
214	10	4	18
215	17	5	29
216	14	9	27
217	8	13	30
218	16	13	38
219	33	8	45
220	26	8	38
221	11	8	27
222	17	3	26
223	18	10	36
224	8	10	23
225	12	6	23
226	9	9	20
227	10	7	22
228	18	6	32
229	19	6	30
230	8	8	19
231	3	9	20
232	2	5	11
233	27	7	36
234	12	6	20
235	0	12	18
236	1	2	9
237	23	6	33
238	3	4	16
239	27	10	44
240	0	6	7
241	16	9	32
242	11	9	26
243	8	5	19
244	8	1	20
245	23	6	32
246	15	6	27
247	17	7	34
248	18	4	26
249	0	3	5
250	23	4	32
251	14	6	28
252	7	9	21
253	15	9	30
254	16	6	27
255	7	12	25
256	14	6	24
257	2	4	14
258	12	8	29
259	19	8	32
260	13	10	33
261	0	10	15
262	13	8	30
263	10	7	25
264	16	7	30
265	37	11	55

Protocol# 10 - Room Decon.lsa

User: Peter Keefe

Lab Decon Swipes 118C C214

266	10	9	26
267	22	13	39
268	0	6	6
269	5	8	20
270	7	8	22
271	14	8	28
272	15	3	24
273	17	6	30
274	8	12	29
275	12	8	29
276	10	8	22
277	20	8	33
278	13	8	24
279	15	13	34
280	17	6	32
281	20	6	32
282	17	6	25
283	2	5	18
284	16	6	25
285	13	1	19
286	19	6	28
287	28	6	40
288	0	1	3
289	5	10	20
290	20	7	34
291	5	7	16
292	12	4	20
293	5	9	17
294	5	6	19
295	6	5	20
296	27	5	35
297	20	12	39
298	17	5	29
299	22	7	35
300	7	13	30
301	15	11	33
302	6	4	18
303	16	5	26
304	20	10	35
305	10	7	24
306	24	2	34
307	29	12	47
308	21	6	39
309	9	6	20
310	22	7	34
311	4	9	16
312	4	8	18
313	20	8	35
314	4	9	25
315	9	12	23
316	13	10	28
317	3	9	19
318	10	3	19
319	7	7	17
320	1	7	16
321	13	5	25
322	21	11	34
323	12	7	29
324	25	8	37
325	9	5	21
326	11	7	25
327	0	9	9