

US EPA ARCHIVE DOCUMENT

DP Barcode: ~~D210808~~
D210808
D210808

MRID No.: 434928-08

DATA EVALUATION RECORD
S 71-1(A) - AVIAN SINGLE-DOSE LD₅₀ TEST

1. **CHEMICAL:** AC 303,268 Technical PC Code No.: 129093
A metabolite of AC 303,630 (PIRATE)

2. **TEST MATERIAL:** AC 303,268 Technical Purity: 100.3 %

3. **CITATION**
Authors: Campbell, S.B., Beavers, J.B. and Sullivan, J.P.
Title: 14-Day Acute Toxicity Test with AC 303,268 Technical in Mallard Ducks (*Anas platyrhynchos*)
Study Completion Date: November 11, 1994
Laboratory: Wildlife International, Easton, MD
Sponsor: American Cyanamid Company, Princeton, NJ
Laboratory Report ID: 130-167
MRID No.: 434928-08

4. **REVIEWED BY:** John D. Eisemann, Wildlife Biologist, EEB, EFED
Signature: *John D. Eisemann* Date: 1/26/96

5. **APPROVED BY:** Ann Stavola, Head, Section (5), EEB, EFED
Signature: *Ann Stavola* Date: 1/26/96

6. **STUDY PARAMETERS**
Scientific Name of Test Organism: *Anas platyrhynchos*
Test Organisms Age/Size: 29 weeks/817-1419 grams
Definitive Study Duration: 14 days

7. **CONCLUSIONS:**
This study is scientifically sound and was conducted in accordance with accepted protocols. It fully meets the requirements for an avian acute oral toxicity test. AC 303,268, a metabolite of AC 303,630, is moderately toxic to waterfowl on an acute oral basis.

7. **Results Synopsis**
LD₅₀: 77 mg ai/kg
NOEL (Survival): 40 mg ai/kg
NOEL (Weight): 20 mg ai/kg
95% C.I.: 57 - 104 mg ai/kg
Probit Slope: 5.47

DP Barcode: ~~D210808~~
D210808
D210808

MRID No.: 434928-08

8. ADEQUACY OF THE STUDY

A. Classification: Core

9. GUIDELINE DEVIATIONS

1. Only a single verification sample was collected from the 80 mg/kg dose.
2. During the range-finding test, behavior observations were not made before 10:00 a.m. on the day of dosing (Day 0). On Days 1, 2, 8, 9, and 14 of the definitive test, observations were made before 3:00 p.m.
3. During the definitive test, behavioral observations were not made before 10:00 a.m. on the day of the dosing (Day 0). On Days 1, 2, 8, 9, and 14 of the definitive test, observations were made before 3:00 p.m.
4. The lot numbers from the basal ration were not recorded during the definitive test.
5. During the range-finding test, approximately 30 ml was collected from each dosing solution, rather than 20 ml as specified by the protocol.
6. The range-finding test was extended for only four days, rather than an additional seven days as specified by the protocol if toxic effects were still evident at the end of the scheduled duration.
7. During the range-finding test, observations for signs and symptoms of intoxication were made prior to 3:00 p.m. on 24 and 25 December, 1993.
8. On 9, 10, 11, 19 and 21 January, 1994, the ambient temperature was less than 15°C, the lower limit specified in the protocol. The lowest temperature recorded was 12.1°C.
9. Raw data was not provided for feed consumption.
10. SUBMISSION PURPOSE: To support registration of PIRATE (AC 303,360) PC Code No.:129093

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MRID No.: 434928-08

11. MATERIALS AND METHODS

A. Test Organisms

Guideline Criteria	Reported Information
Species: A wild waterfowl species, preferably the mallard (<i>Anas platyrhynchos</i>), or an upland game bird species, preferably the bobwhite (<i>Colinus virginianus</i>).	<i>Anas platyrhynchos</i>
Age at beginning of test: At least 16 weeks old.	29 weeks
Supplier	Whistling Wings Hanover, IL
Acclimation period: At least 15 days.	56 days

B. Test System

Guideline Criteria	Reported Information
Pen facilities adequate?	Yes
Photoperiod: 10-h light, 14-h dark is recommended.	8-hr light, 16-hr dark
Diet was nutritious and appropriate for species?	Yes - Wildlife International, game bird formulation
Feed withheld at least 15 hours prior to dosing?	Yes - 19 hours

DP Barcode: ~~0210808~~
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MRID No.: 434928-08

C. Test Design

Guideline Criteria	Reported Information
Range finding test?	Yes
Definitive Test Nominal concentrations: At least five, in a geometric scale, unless LD ₅₀ > 2000 mg ai / kg.	0, 5, 10, 20, 40, 80, 160 mg ai/kg body weight
Controls: Water control or vehicle control (if vehicle is used)	Corn oil
Number of birds per group: 10 (strongly recommended)	10
Vehicle: Distilled water, corn oil, propylene glycol, 1% carboxymethylcellulose, or gum arabic.	Corn oil
Amount of vehicle per body weight: Constant volume/weight % of body weight, not to exceed 1% (1ml/100g).	0.6 % (6 ml corn oil/kg body weight)
Observations period: At least 14 days.	14 days

12. REPORTED RESULTS

Guideline Criteria	Reported Information
Quality assurance and GLP compliance statements were included in the report?	Yes
Individual body weights measured at beginning of test, on day 14 and at end of test if extended beyond 14 days?	Yes

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MRID No.: 434928-08

Guideline Criteria	Reported Information
Mean feed consumption measured at beginning of test, on day 14, and at end of test if extended beyond 14 days?	Yes
Control Mortality: Not more than 10%	0 %
Raw data included?	Yes
Signs of toxicity (if any) were described?	Yes

Mortality

Dosage (mg/kg)	No. of Birds	Cumulative Number of Dead							
		Day of Study							
		1	2	3	4	5	6-8	9-11	12-14
Control	10	0	0	0	0	0	0	0	0
5	10	0	0	0	0	0	0	0	0
10	10	0	0	0	0	0	0	0	0
20	10	0	0	0	0	0	0	0	0
40	10	0	0	0	0	0	0	0	0
80	10	2	3	5	6	7	7	7	7
160	10	4	8	9	9	9	9	9	9

Other Significant Results:

No signs of toxicity were noted in the 5, 10 and 20 mg/kg treatment level. Signs of intoxication at the higher treatment levels included shallow and rapid respiration, loss of coordination, reduced reaction time, inability to right itself. Three birds in the highest dose died immediately after dosing.

A significant decline in the body weight of birds treated at 40 mg ai/kg was noted at day 3 and continued until the end of the test. Additionally, birds in the 80 mg ai/kg exhibited significantly reduced body weight on day 3.

DP Barcode: ~~0210808~~
D210808

MRID No.: 434928-08

No statistical comparisons could be made with the 80 mg ai/kg group beyond day 3 or the 160 mg ai/kg treatment groups due to high mortality.

Feed consumption declined slightly among the birds at the 40 mg/kg treatment level from day 0 to day 3. Birds at the 80 and 160 mg/kg treatment level showed significant reduction in feed consumption from day 0 to day 3.

Gross necropsy findings included staining or urates around the vent, petechial hemorrhage in the myocardium, and a small and/or pale spleen.

Reported Statistical Results

Statistical Method:

LD₅₀: 77 mg/kg

95% C.I.: 57 - 104 mg/kg

NOEL: (Survival): 40 mg/kg

Probit Slope: 5.47

NOEL: (Weight): 20 mg/kg

13. Verification of Statistical Results

Statistical Method:

LD₅₀: 77 mg/kg

95% C.I.: 57 - 104 mg/kg

NOEL: (Survival) 40 mg/kg

Probit Slope: 5.47

NOEL: (Weight) 20 mg/kg

15. REVIEWER'S COMMENTS:

This study is scientifically sound and was conducted in accordance with accepted protocols. It fully meets the requirements for an avian acute oral toxicity test. AC 303,268, a metabolite of AC 303,630, is moderately toxic to waterfowl on an acute oral basis.

John Eisemann Pirate Metabolite Acute Oral - Mallard

CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
160	10	9	90	1.074219
80	10	7	70	17.1875
40	10	0	0	9.765625E-02
20	10	0	0	9.765625E-02
10	10	0	0	9.765625E-02
5	10	0	0	9.765625E-02

THE BINOMIAL TEST SHOWS THAT 40 AND 160 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 68.29234

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN	G	LC50	95 PERCENT CONFIDENCE LIMITS	
2	.1677541	76.01928	57.39893	98.62966

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS	G	H
7	.2970513	1

GOODNESS OF FIT PROBABILITY
.6269091

SLOPE = 5.468075
95 PERCENT CONFIDENCE LIMITS = 2.487842 AND 8.448307

LC50 = 76.95868
95 PERCENT CONFIDENCE LIMITS = 57.28887 AND 103.9666

LC10 = 45.08174
95 PERCENT CONFIDENCE LIMITS = 21.73473 AND 59.84142

Pirate metabolite AC 303,268 - Mailard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
1	control	126	M	968	1028	1078	1054	-60	-110	-86
2	control	128	M	1044	1073	1103	1100	-29	-59	-56
3	control	130	M	1092	1128	1174	1139	-36	-82	-107
4	control	133	M	1187	1246	1272	1239	-59	-85	-52
5	control	135	M	1056	1109	1098	1098	-41	-30	-30
6	control	127	F	817	843	885	847	-26	-38	-30
7	control	129	F	892	928	1004	967	-36	-112	-75
8	control	121	F	865	862	878	857	2	-13	8
9	control	134	F	1195	1268	1359	1223	-73	-64	-28
10	control	136	F	1113	1178	1163	1196	-65	-50	-83
11	ctrl_5	137	M	1071	1088	1109	1137	-17	-38	-66
12	ctrl_5	139	M	1215	1237	1356	1352	-22	-41	-37
13	ctrl_5	292	M	1135	1174	1161	1159	-39	-26	-24
14	ctrl_5	294	M	1189	1234	1336	1335	-45	-47	-46
15	ctrl_5	296	M	1237	1318	1300	1312	-91	-72	-85
16	ctrl_5	198	F	1087	1170	1160	1168	-83	-73	-81
17	ctrl_5	200	F	1063	1106	1119	1105	-43	-56	-42
18	ctrl_5	293	F	1182	1225	1205	1198	-73	-53	-45
19	ctrl_5	295	F	893	956	957	930	-63	-84	-37
20	ctrl_5	297	F	1072	1117	1111	1137	-45	-39	-65
21	ctrl_10	298	F	1361	1408	1415	1378	-47	-54	-17
22	ctrl_10	300	M	1377	1453	1453	1460	-76	-76	-83
23	ctrl_10	498	M	1188	1247	1207	1222	-59	-19	-34
24	ctrl_10	500	M	1176	1194	1163	1170	-39	-10	-24
25	ctrl_10	802	M	1124	1163	1134	1148	-18	13	6
26	ctrl_10	299	F	957	1028	1022	1011	-71	-65	-54
27	ctrl_10	497	F	1078	1135	1155	1114	-57	-77	-36
28	ctrl_10	499	F	1055	1119	1100	1107	-64	-45	-52
29	ctrl_10	801	F	1081	1128	1092	1078	-47	-11	3
30	ctrl_10	803	F	983	1033	1033	1053	-50	-50	-70
31	ctrl_20	90497	M	1116	1189	1184	1168	-50	-53	-3
32	ctrl_20	90498	M	1129	1122	1124	1133	-72	5	-2
33	ctrl_20	90499	M	1136	1189	1208	1218	-52	-72	-82
34	ctrl_20	90500	M	1286	1264	1305	1302	-22	-19	-16
35	ctrl_20	90955	M	1174	1199	1229	1226	-25	-55	-52
36	ctrl_20	299	F	948	979	979	1019	-31	-21	-71
37	ctrl_20	300	F	1030	958	1043	1053	-72	-13	-23
38	ctrl_20	395	F	1030	1036	1040	1024	-6	-10	6
39	ctrl_20	396	F	993	1007	993	998	-14	0	-5
40	ctrl_20	397	F	1281	1311	1302	1326	-30	-21	-45
41	ctrl_40	90966	M	1153	1149	1181	1176	4	-28	-33
42	ctrl_40	90997	M	1127	1107	1137	1150	0	0	-23
43	ctrl_40	90998	M	1290	1312	1280	1318	-22	10	0
44	ctrl_40	90999	M	1184	1133	1139	1108	-22	10	-25
45	ctrl_40	901000	M	1419	1223	1357	1406	51	45	76
46	ctrl_40	398	F	1164	1194	1119	1153	196	62	13
47	ctrl_40	399	F	993	838	931	970	-30	42	11
48	ctrl_40	400	F	1235	1265	1284	1249	155	65	23
49	ctrl_40	497	F	1098	1026	1032	1101	-29	-14	-14
50	ctrl_80	498	F	1025	1061	1008	984	72	66	3
51	ctrl_80	191	M	1058	915	1073	1087	-36	17	41
52	ctrl_80	192	M	1329				143	-15	-29
53	ctrl_80	193	M	1093						
54	ctrl_80	193	M	1129	941			188		

Pirate metabolite AC 303,268 - Mailard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
55	ctrl_80	194	M	1141	1071	1089	1088	70	52	53

Pirate metabolite AC 303,268 - Mailard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
56	ctrl_80	995	F	1131	987	884	1068	174	247	69
57	ctrl_80	996	F	912	1034	1059	1059	1059	1059	1059
58	ctrl_80	997	F	1034	1059	1059	1059	1059	1059	1059
59	ctrl_80	998	F	1059	1059	1059	1059	1059	1059	1059
60	ctrl_80	999	F	1059	1059	1059	1059	1059	1059	1059
61	ctrl_160	195	M	1097	1097	1097	1097	1097	1097	1097
62	ctrl_160	90497	M	1183	1183	1183	1183	1183	1183	1183
63	ctrl_160	90498	M	1306	1306	1306	1306	1306	1306	1306
64	ctrl_160	90499	M	1323	1323	1323	1323	1323	1323	1323
65	ctrl_160	90500	M	848	848	848	848	848	848	848
66	ctrl_160	1000	F	1014	1014	1014	1014	1014	1014	1014
67	ctrl_160	488	F	933	933	933	933	933	933	933
68	ctrl_160	489	F	933	933	933	933	933	933	933
69	ctrl_160	490	F	1187	999	941	991	188	246	196
70	ctrl_160	491	F	1180						

Pirate metabolite AC 303,268 - Mailard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	817.0000	1195.0000	1024.1000	17708.9889
10	WT_3	10	863.0000	1268.0000	1066.3000	22591.3444
10	WT_7	10	855.0000	1372.0000	1088.4000	20220.7111
10	WT_14	10	847.0000	1339.0000	1078.0000	21277.1111
10	DIFPO_3	10	-73.0000	3.0000	-42.2000	513.9556
10	DIFPO_7	10	-112.0000	113.0000	-64.3000	1093.1222
10	DIFPO_14	10	-107.0000	8.0000	-53.9000	1189.4333

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	957.0000	1377.0000	1136.0000	20166.2222
10	WT_3	10	1028.0000	1453.0000	1190.8000	20387.0667
10	WT_7	10	1022.0000	1453.0000	1177.4000	21571.6000
10	WT_14	10	1011.0000	1460.0000	1176.1000	20546.9889
10	DIFPO_3	10	-76.0000	18.0000	-52.8000	280.8444
10	DIFPO_7	10	-77.0000	13.0000	-39.4000	955.3778
10	DIFPO_14	10	-83.0000	6.0000	-36.1000	859.8778

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	957.0000	1377.0000	1136.0000	20166.2222
10	WT_3	10	1028.0000	1453.0000	1190.8000	20387.0667
10	WT_7	10	1022.0000	1453.0000	1177.4000	21571.6000
10	WT_14	10	1011.0000	1460.0000	1176.1000	20546.9889
10	DIFPO_3	10	-76.0000	18.0000	-52.8000	280.8444
10	DIFPO_7	10	-77.0000	13.0000	-39.4000	955.3778
10	DIFPO_14	10	-83.0000	6.0000	-36.1000	859.8778

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	957.0000	1377.0000	1136.0000	20166.2222
10	WT_3	10	1028.0000	1453.0000	1190.8000	20387.0667
10	WT_7	10	1022.0000	1453.0000	1177.4000	21571.6000
10	WT_14	10	1011.0000	1460.0000	1176.1000	20546.9889
10	DIFPO_3	10	-76.0000	18.0000	-52.8000	280.8444
10	DIFPO_7	10	-77.0000	13.0000	-39.4000	955.3778
10	DIFPO_14	10	-83.0000	6.0000	-36.1000	859.8778

Pirate metabolite AC 303,268 - Mallard active oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

TRINNT-ctrl_160

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	848.0000	1323.0000	1103.1000	25702.7667
	WT_3	1	999.0000	999.0000	999.0000	
	WT_7	1	941.0000	941.0000	941.0000	
	WT_14	1	991.0000	991.0000	991.0000	
	DIBPO_3	1	188.0000	188.0000	188.0000	
	DIBPO_7	1	246.0000	246.0000	246.0000	
	DIBPO_14	1	196.0000	196.0000	196.0000	

TRINNT-ctrl_20

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	948.0000	1286.0000	1112.3000	13118.4556
	WT_3	10	958.0000	1311.0000	1125.4000	15404.7111
	WT_7	10	979.0000	1305.0000	1140.4000	14387.6000
	WT_14	10	998.0000	1326.0000	1146.7000	14511.7889
	DIBPO_3	10	-73.0000	72.0000	-13.1000	1650.7667
	DIBPO_7	10	-72.0000	5.0000	-28.1000	732.7667
	DIBPO_14	10	-82.0000	6.0000	-34.4000	924.9333

TRINNT-ctrl_40

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	993.0000	1419.0000	1168.8000	15613.2889
	WT_3	10	838.0000	1312.0000	1130.8000	18425.2889
	WT_7	10	931.0000	1357.0000	1143.8000	17442.4000
	WT_14	10	970.0000	1406.0000	1161.2000	18457.0667
	DIBPO_3	10	-36.0000	196.0000	38.0000	6642.4444

Pirate metabolite AC 303,268 - Mallard active oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	114.5358	36.2194	36.2194	
	WT_3	10	124.1157	39.2488	39.2488	
	WT_7	10	122.4239	38.7138	38.7138	
	WT_14	10	120.4649	38.0943	38.0943	
	DIBPO_3	10	40.6296	12.8482	12.8482	
	DIBPO_7	10	27.0697	8.5602	8.5602	
	DIBPO_14	10	30.4127	9.6173	9.6173	

Pirate metabolite AC 303,268 - Mallard active oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

TRINNT-ctrl_5

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	893.0000	1227.0000	1110.4000	9570.4889
	WT_3	10	956.0000	1318.0000	1162.5000	10265.8333
	WT_7	10	957.0000	1300.0000	1161.4000	9387.8232
	WT_14	10	930.0000	1312.0000	1163.3000	10619.5667
	DIBPO_3	10	-91.0000	-17.0000	-52.1000	612.9889
	DIBPO_7	10	-73.0000	-28.0000	-51.0000	246.6667
	DIBPO_14	10	-85.0000	-28.0000	-52.9000	410.3222

TRINNT-ctrl_80

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	97.8289	30.9362	30.9362	
	WT_3	10	101.3204	32.0403	32.0403	
	WT_7	10	96.8908	30.6396	30.6396	
	WT_14	10	103.0513	32.5877	32.5877	
	DIBPO_3	10	24.7586	7.8294	7.8294	
	DIBPO_7	10	15.7056	4.9666	4.9666	
	DIBPO_14	10	20.2584	6.4056	6.4056	

TRINNT-ctrl_90

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	912.0000	1329.0000	1089.0000	11902.6667
	WT_3	4	915.0000	1071.0000	971.0000	4744.0000
	WT_7	4	884.0000	1089.0000	1015.3333	13000.3333
	WT_14	3	1062.0000	1088.0000	1079.0000	217.0000
	DIBPO_3	4	70.0000	188.0000	143.7500	2770.9167
	DIBPO_7	3	-15.0000	247.0000	94.6667	18528.3333
	DIBPO_14	3	-29.0000	69.0000	31.0000	2764.0000

TRINNT-ctrl_95

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	109.0993	34.5002	34.5002	
	WT_3	10	62.8767	34.4384	34.4384	
	WT_7	10	114.0190	65.8288	65.8288	
	WT_14	10	14.7309	8.5048	8.5048	
	DIBPO_3	10	52.6395	26.3197	26.3197	
	DIBPO_7	10	136.1115	78.5840	78.5840	
	DIBPO_14	10	52.5738	30.3535	30.3535	

9

General Linear Models Procedure
 Class Level Information

Class Levels Values

TRTMT 7 control trt_10 trt_160 trt_20 trt_40 trt_5 trt_80

Number of observations in data set = 70

Group	Obs	Dependent Variables
1	70	WT_0
2	55	DIPPO_3
3	54	DIPPO_7 DIPPO_14

NOTE: Variables in each group are consistent with respect to the presence or absence of missing values.

Pirate metabolite AC 303,268 - Mallard actue oral test 81
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: WT_0

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	120299.5429	20049.9238	1.23	0.3014
Error	63	1024063.9000	16254.9825		
Corrected Total	69	1144363.4429			

R-Square 0.105124 C.V. 11.52207 Root MSE 1106.52857
 WT_0 Mean 127.4950

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	120299.5429	20049.9238	1.23	0.3014
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	120299.5429	20049.9238	1.23	0.3014

Pirate metabolite AC 303,268 - Mallard actue oral test 82
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: WT_0

NOTE: This tests controls the type I experimentwise error for

Alpha= 0.05 Confidence= 0.95 df= 63 MSB= 16254.98
 Critical Value of Dunnnett's T= 2.638
 Minimum Significant Difference= 150.41

Comparisons significant at the 0.05 level are indicated by '****'

TRTMT Comparison	Simultaneous Lower Limit	Difference Between Means	Simultaneous Upper Confidence Limit
trt_40 - control	-5.71	144.70	295.11
trt_10 - control	-36.51	113.90	264.31
trt_20 - control	-62.21	88.20	238.61
trt_5 - control	-64.11	86.30	236.71
trt_160 - control	-71.41	79.00	229.41
trt_80 - control	-85.51	64.90	215.31

Pirate metabolite AC 303,268 - Mallard actue oral test 83
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIPPO_3

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	203156.6864	33859.4477	17.00	0.0001
Error	48	95621.7500	1992.1198		
Corrected Total	54	298778.4364			

R-Square 0.679958 C.V. -534.8201 Root MSE 44.63317
 DIPPO_3 Mean 44.63317

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	203156.6864	33859.4477	17.00	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	203156.6864	33859.4477	17.00	0.0001

Pirate metabolite AC 303,268 - Mallard actue oral test 84
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIPPO_3

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 48 MSB= 1992.12
 Critical Value of Dunnnett's T= 2.717

Comparisons significant at the 0.05 level are indicated by '****'

10

Simultaneous Lower Confidence Limit Difference Between Means Simultaneous Upper Confidence Limit

TRTMT	Comparison	Mean	95.00	95.00
TRTMT	control	Mean	95.00	95.00
TRTMT	control	Mean	95.00	95.00
TRTMT	control	Mean	95.00	95.00

Pirate metabolite AC 303,268 - Mallard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIPPO_7

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	164086.9704	27347.8284	16.88	0.0001
Error	47	76162.0667	1620.4695		
Corrected Total	53	240249.0370			

R-Square 0.682987
 C.V. 40.25506
 Root MSE 19.407407
 DIPPO_7 Mean

Pirate metabolite AC 303,268 - Mallard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIPPO_14

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	87066.20370	14511.03395	14.94	0.0001
Error	47	45665.50000	971.60638		
Corrected Total	53	132731.70370			

R-Square 0.655856
 C.V. 31.17060
 Root MSE 31.17060
 DIPPO_14 Mean

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	87066.20370	14511.03395	14.94	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	87066.20370	14511.03395	14.94	0.0001

Pirate metabolite AC 303,268 - Mallard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIPPO_7
 NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.
 Alpha= 0.05 Confidence= 0.95 df= 47 MSB= 1620.47
 Critical Value of Dunnnett's T= 2.721

Comparisons significant at the 0.05 level are indicated by '***'

TRTMT	Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRTMT	control	95.00	95.00	95.00
TRTMT	control	95.00	95.00	95.00
TRTMT	control	95.00	95.00	95.00

Pirate metabolite AC 303,268 - Mallard acute oral test
 Combined Sex Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIPPO_14

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.
 Alpha= 0.05 Confidence= 0.95 df= 47 MSB= 971.6064
 Critical Value of Dunnnett's T= 2.721

Comparisons significant at the 0.05 level are indicated by '***'

TRTMT	Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
TRTMT	control	95.00	95.00	95.00
TRTMT	control	95.00	95.00	95.00
TRTMT	control	95.00	95.00	95.00

Pirate metabolite AC 303,268 - Mallard acute oral test
 Male Weight Data

TRIMNT=control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	968.0000	1187.0000	1071.8000	6310.2000
5	WT_3	5	1028.0000	1246.0000	1116.8000	6670.7000
5	WT_7	5	1078.0000	1272.0000	1145.0000	6358.0000
5	WT_14	5	1054.0000	1239.0000	1138.0000	6005.5000
5	DIP0_3	5	-60.0000	-29.0000	-45.0000	193.5000
5	DIP0_7	5	-110.0000	-30.0000	-73.2000	909.7000
5	DIP0_14	5	-107.0000	-30.0000	-66.2000	918.2000

N Obs Variable

Std Dev

Std Error

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1124.0000	1377.0000	1245.2000	13382.7000
5	WT_3	5	1163.0000	1453.0000	1293.0000	16910.5000
5	WT_7	5	1134.0000	1453.0000	1274.4000	22082.8000
5	WT_14	5	1148.0000	1460.0000	1275.6000	18698.8000
5	DIP0_3	5	-76.0000	-18.0000	-47.8000	471.7000
5	DIP0_7	5	-76.0000	13.0000	-29.2000	1264.7000
5	DIP0_14	5	-83.0000	6.0000	-30.4000	1081.3000

TRIMNT=ctrl_10

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1124.0000	1377.0000	1245.2000	13382.7000
5	WT_3	5	1163.0000	1453.0000	1293.0000	16910.5000
5	WT_7	5	1134.0000	1453.0000	1274.4000	22082.8000
5	WT_14	5	1148.0000	1460.0000	1275.6000	18698.8000
5	DIP0_3	5	-76.0000	-18.0000	-47.8000	471.7000
5	DIP0_7	5	-76.0000	13.0000	-29.2000	1264.7000
5	DIP0_14	5	-83.0000	6.0000	-30.4000	1081.3000

N Obs Variable

Std Dev

Std Error

Pirate metabolite AC 303,268 - Mallard active oral test
Male Weight Data 8:47 Thursday, January 25, 1996

TRIMNT=ctrl_160

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	960.0000	1323.0000	1173.8000	22657.7000
5	WT_3	5	1028.0000	1246.0000	1116.8000	6670.7000
5	WT_7	5	1078.0000	1272.0000	1145.0000	6358.0000
5	WT_14	5	1054.0000	1239.0000	1138.0000	6005.5000
5	DIP0_3	5	-60.0000	-29.0000	-45.0000	193.5000
5	DIP0_7	5	-110.0000	-30.0000	-73.2000	909.7000
5	DIP0_14	5	-107.0000	-30.0000	-66.2000	918.2000

TRIMNT=ctrl_20

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1116.0000	1286.0000	1168.2000	4802.2000
5	WT_3	5	1122.0000	1264.0000	1192.6000	2537.3000
5	WT_7	5	1124.0000	1305.0000	1209.4000	4406.3000
5	WT_14	5	1132.0000	1302.0000	1209.4000	4136.8000
5	DIP0_3	5	-73.0000	22.0000	-24.4000	1579.8000
5	DIP0_7	5	-72.0000	5.0000	-41.2000	1083.2000
5	DIP0_14	5	-82.0000	-3.0000	-41.2000	1003.7000

TRIMNT=ctrl_20

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1116.0000	1286.0000	1168.2000	4802.2000
5	WT_3	5	1122.0000	1264.0000	1192.6000	2537.3000
5	WT_7	5	1124.0000	1305.0000	1209.4000	4406.3000
5	WT_14	5	1132.0000	1302.0000	1209.4000	4136.8000
5	DIP0_3	5	-73.0000	22.0000	-24.4000	1579.8000
5	DIP0_7	5	-72.0000	5.0000	-41.2000	1083.2000
5	DIP0_14	5	-82.0000	-3.0000	-41.2000	1003.7000

N Obs Variable

Std Dev

Std Error

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1127.0000	1419.0000	1234.6000	14467.3000
5	WT_3	5	1107.0000	1312.0000	1184.8000	6914.2000
5	WT_7	5	1127.0000	1357.0000	1216.8000	9762.2000
5	WT_14	5	1108.0000	1406.0000	1231.0000	15592.0000
5	DIP0_3	5	-22.0000	196.0000	49.8000	7379.2000
5	DIP0_7	5	-28.0000	62.0000	17.8000	1292.2000
5	DIP0_14	5	-25.0000	76.0000	3.6000	1890.8000

Pirate metabolite AC 303,268 - Mallard active oral test

Male Weight Data 8:47 Thursday, January 25, 1996

TRIMNT=ctrl_40

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1127.0000	1419.0000	1234.6000	14467.3000
5	WT_3	5	1107.0000	1312.0000	1184.8000	6914.2000
5	WT_7	5	1127.0000	1357.0000	1216.8000	9762.2000
5	WT_14	5	1108.0000	1406.0000	1231.0000	15592.0000
5	DIP0_3	5	-22.0000	196.0000	49.8000	7379.2000
5	DIP0_7	5	-28.0000	62.0000	17.8000	1292.2000
5	DIP0_14	5	-25.0000	76.0000	3.6000	1890.8000

N Obs Variable

Std Dev

Std Error

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	120.2801	53.7909	37.1866	19.4463
5	WT_3	5	83.1517	37.1866	44.1864	55.8552
5	WT_7	5	53.8038	44.1864	38.4467	16.0761
5	WT_14	5	134.8960	85.9023	35.9472	41.4633
5	DIP0_3	5	85.9023	35.9472	16.0761	19.4463
5	DIP0_7	5	35.9472	16.0761	19.4463	19.4463
5	DIP0_14	5	41.4633	19.4463	19.4463	19.4463

TRIMNT=ctrl_5

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1071.0000	1327.0000	1167.4000	4156.8000
	WT_3	5	1068.0000	1318.0000	1210.2000	7287.2000
	WT_7	5	1109.0000	1300.0000	1212.4000	5866.3000
	WT_14	5	1137.0000	1312.0000	1219.0000	5079.5000
	DIFB0_3	5	-91.0000	-17.0000	-42.8000	860.2000
	DIFB0_7	5	-73.0000	-26.0000	-45.0000	303.5000
	DIFB0_14	5	-85.0000	-24.0000	-51.6000	582.3000

Pirate Metabolite AC 303,268 - Mallard active oral test
Male Weight Data
8:47 Thursday, January 25, 1996

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1058.0000	1329.0000	1150.0000	11069.0000
	WT_3	2	915.0000	1071.0000	975.6667	6985.3333
	WT_7	2	1073.0000	1089.0000	1081.0000	128.0000
	WT_14	2	1087.0000	1088.0000	1087.5000	0.5000
	DIFB0_3	2	70.0000	188.0000	133.6667	3546.3333
	DIFB0_7	2	-15.0000	52.0000	18.5000	2244.5000
	DIFB0_14	2	-29.0000	53.0000	12.0000	3352.0000

Pirate Metabolite AC 303,268 - Mallard active oral test
Male Weight Data
8:47 Thursday, January 25, 1996

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1058.0000	1329.0000	1150.0000	11069.0000
	WT_3	2	915.0000	1071.0000	975.6667	6985.3333
	WT_7	2	1073.0000	1089.0000	1081.0000	128.0000
	WT_14	2	1087.0000	1088.0000	1087.5000	0.5000
	DIFB0_3	2	70.0000	188.0000	133.6667	3546.3333
	DIFB0_7	2	-15.0000	52.0000	18.5000	2244.5000
	DIFB0_14	2	-29.0000	53.0000	12.0000	3352.0000

Pirate Metabolite AC 303,268 - Mallard active oral test
Male Weight Data
8:47 Thursday, January 25, 1996

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	1058.0000	1329.0000	1150.0000	11069.0000
	WT_3	2	915.0000	1071.0000	975.6667	6985.3333
	WT_7	2	1073.0000	1089.0000	1081.0000	128.0000
	WT_14	2	1087.0000	1088.0000	1087.5000	0.5000
	DIFB0_3	2	70.0000	188.0000	133.6667	3546.3333
	DIFB0_7	2	-15.0000	52.0000	18.5000	2244.5000
	DIFB0_14	2	-29.0000	53.0000	12.0000	3352.0000

General Linear Models Procedure
Class Level Information

Class Levels Values

TRTMT 7 control trt_10 trt_160 trt_20 trt_40 trt_5 trt_80

Number of observations in data set = 35

Group Obs Dependant Variables

1 35 WT_0

Pirate Metabolite AC 303,268 - Mallard active oral test
Male Weight Data
8:47 Thursday, January 25, 1996

Source	Sum of Squares	Mean Square	F Value	Pr > F
Model	99164.40000	16527.40000	1.50	0.2140
Error	308183.60000	11006.55714		
Corrected Total	407348.00000			

General Linear Models Procedure

Source	Sum of Squares	Mean Square	F Value	Pr > F
Model	99164.40000	16527.40000	1.50	0.2140
Error	308183.60000	11006.55714		
Corrected Total	407348.00000			

General Linear Models Procedure

Source	Sum of Squares	Mean Square	F Value	Pr > F
Model	99164.40000	16527.40000	1.50	0.2140
Error	308183.60000	11006.55714		
Corrected Total	407348.00000			

NOTE: Variables in each group are consistent with respect to the presence or absence of missing values.

General Linear Models Procedure

Source Type III SS Mean Square F Value Pr > F

TRTMT 5 99164.40000 16527.40000 1.50 0.2140

Pirate Metabolite AC 303,268 - Mallard active oral test
Male Weight Data
8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: WT_0

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha = 0.05 Confidence = 0.95 df = 28 MSB = 11006.56
Critical Value of Dunnnett's T = 2.731
Minimum Significant Difference = 181.23

Comparisons significant at the 0.05 level are indicated by '***'.

TRTMT Comparison	Lower Confidence Limit	Difference Between Means	Upper Confidence Limit
trt_10 - control	-7.83	173.40	354.63
trt_40 - control	-18.43	162.80	344.03
trt_160 - control	-79.23	102.00	283.23
trt_20 - control	-84.83	96.40	277.63
trt_5 - control	-85.63	95.60	276.83

Pirate metabolite AC 303,268 - Mallard active oral test 96
 Male Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIFP0_3

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	98882.16190	19776.43238	8.87	0.0001
Error	22	49030.26667	2228.64846		
Corrected Total	27	147912.42857			

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	98882.16190	19776.43238	8.87	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	98882.16190	19776.43238	8.87	0.0001

Pirate metabolite AC 303,268 - Mallard active oral test 97
 Male Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIFP0_3
 NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.
 Alpha= 0.05 Confidence= 0.95 df= 22 MSB= 2228.648
 Critical Value of Dunnnett's T= 2.724

Comparisons significant at the 0.05 level are indicated by '****'.

TRTMT Comparison	Simultaneous Lower Limit	Difference Between Means	Simultaneous Upper Limit
crt_80 - control	84.77	178.67	272.57
crt_40 - control	13.48	94.80	176.12
crt_30 - control	-60.72	20.60	101.92
crt_5 - control	-79.12	2.20	83.52
crt_10 - control	-84.12	-2.80	78.52

Pirate metabolite AC 303,268 - Mallard active oral test 98
 Male Weight Data
 8:47 Thursday, January 25, 1996

Dependent Variable: DIFP0_7

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	27213.48519	5442.69704	5.28	0.0027
Error	21	21657.70000	1031.31905		
Corrected Total	26	48871.18519			

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	27213.48519	5442.69704	5.28	0.0027
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	27213.48519	5442.69704	5.28	0.0027

Pirate metabolite AC 303,268 - Mallard active oral test 99
 Male Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIFP0_14

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	18351.54074	3670.30815	3.05	0.0318
Error	21	25267.20000	1203.20000		
Corrected Total	26	43618.74074			

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	18351.54074	3670.30815	3.05	0.0318
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	18351.54074	3670.30815	3.05	0.0318

Pirate metabolite AC 303,268 - Mallard active oral test 100
 Male Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIFP0_7
 NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.
 Alpha= 0.05 Confidence= 0.95 df= 21 MSB= 1031.319

Comparisons significant at the 0.05 level are indicated by '***'.

TRTMT Comparison	Simultaneous		Difference Between Means	Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit		Lower Confidence Limit	Upper Confidence Limit
ert_80 - control	17.96	91.70	155.44	***	
ert_40 - control	35.26	91.00	146.74	***	
ert_10 - control	-11.74	44.00	99.74		
ert_20 - control	-23.74	32.00	87.74		
ert_5 - control	-27.54	28.20	83.94		

Pirate metabolite AC 303,268 - Mallard active oral test
Male Weight Data
8:47 Thursday, January 25, 1996 101

General Linear Models Procedure

Dunnett's T tests for variable: DIFP0_14

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 21 MSB= 1203.2
Critical Value of Dunnett's T= 2.745

Comparisons significant at the 0.05 level are indicated by '***'.

TRTMT Comparison	Simultaneous		Difference Between Means	Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit		Lower Confidence Limit	Upper Confidence Limit
ert_80 - control	-1.45	78.20	157.85	***	
ert_40 - control	9.59	69.80	130.01	***	
ert_10 - control	-24.41	35.80	96.01		
ert_20 - control	-35.21	25.00	85.21		
ert_5 - control	-45.61	14.60	74.81		

Pirate metabolite AC 303,268 - Mallard active oral test
Female Weight Data
8:47 Thursday, January 25, 1996 102

TRTMT=control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	817.0000	1195.0000	976.4000	27846.8000
5	WT_3	5	843.0000	1268.0000	1015.8000	37784.2000
5	WT_7	5	855.0000	1259.0000	1031.8000	31159.7000
5	WT_14	5	847.0000	1223.0000	1018.0000	32868.0000
5	DIFP0_3	5	-73.0000	3.0000	-39.4000	943.3000
5	DIFP0_7	5	-112.0000	-13.0000	-55.4000	1351.8000
5	DIFP0_14	5	-83.0000	8.0000	-41.6000	1402.3000

WT_14	18.2953	81.0777
DIFP0_3	38.7132	13.7354
DIFP0_7	38.7668	16.4426
DIFP0_14	37.4473	16.7469

TRTMT=ert_10

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	957.0000	1081.0000	1030.8000	3266.2000
5	WT_3	5	1028.0000	1135.0000	1088.6000	2848.3000
5	WT_7	5	1022.0000	1155.0000	1080.4000	2935.3000
5	WT_14	5	1011.0000	1114.0000	1072.6000	1776.3000
5	DIFP0_3	5	-71.0000	-47.0000	-57.8000	97.7000
5	DIFP0_7	5	-77.0000	-11.0000	-49.5000	624.8000
5	DIFP0_14	5	-70.0000	3.0000	-41.8000	772.2000

N Obs Variable Std Dev Std Error

5	WT_0	57.1507	25.5586
5	WT_3	53.3695	23.8676
5	WT_7	54.1784	24.2293
5	WT_14	42.1462	18.8483
5	DIFP0_3	9.8843	4.4204
5	DIFP0_7	24.9660	11.1786
5	DIFP0_14	27.7885	12.4274

Pirate metabolite AC 303,268 - Mallard active oral test
Female Weight Data
8:47 Thursday, January 25, 1996 103

TRTMT=ert_160

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	848.0000	1187.0000	1032.4000	22477.3000
5	WT_3	5	999.0000	999.0000	999.0000	
5	WT_7	5	941.0000	941.0000	941.0000	
5	WT_14	5	991.0000	991.0000	991.0000	
5	DIFP0_3	5	188.0000	188.0000	188.0000	
5	DIFP0_7	5	246.0000	246.0000	246.0000	
5	DIFP0_14	5	196.0000	196.0000	196.0000	

N Obs Variable Std Dev Std Error

5	WT_0	149.9243	67.0482
5	WT_3		
5	WT_7		
5	WT_14		
5	DIFP0_3		
5	DIFP0_7		
5	DIFP0_14		

TRTMT=ert_20

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	948.0000	1381.0000	1056.4000	16902.3000
5	WT_3	5	958.0000	1311.0000	1058.2000	20832.7000
5	WT_7	5	979.0000	1502.0000	1071.4000	17413.3000
5	WT_14	5	996.0000	1326.0000	1084.0000	18686.5000

Corrected Total	34	427723.88571						
R-Square		C.V.	Root MSB	WT_0 Mean				
	0.102272	11.28947	117.1049	1040.05714				
Source	DF	Type I SS	Mean Square	F Value	Pr > F			
TRTMT	6	43744.28571	7290.71429	0.53	0.7795			
Source	DF	Type III SS	Mean Square	F Value	Pr > F			
TRTMT	6	43744.28571	7290.71429	0.53	0.7795			

Pirate metabolite AC 303,268 - Mallard acute oral test
Female Weight Data
8:47 Thursday, January 25, 1996

General Linear Models Procedure

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha = 0.05 Confidence = 0.95 df = 28 MSB = 13713.56
Critical Value of Dunnett's T = 2.731
Minimum Significant Difference = 202.29

Comparisons significant at the 0.05 level are indicated by '****'

TRTMT Comparison	Simultaneous Lower Limit		Difference Between Means	Simultaneous Upper Confidence Limit	
	Lower Limit	Upper Confidence Limit		Upper Confidence Limit	Lower Limit
ctrl_40 - control	-75.69	126.60	328.89	328.89	
ctrl_20 - control	-122.29	80.00	282.29	282.29	
ctrl_5 - control	-125.29	77.00	279.29	279.29	
ctrl_160 - control	-146.29	56.00	258.29	258.29	
ctrl_10 - control	-147.89	54.40	256.89	256.89	
ctrl_80 - control	-150.69	51.60	253.89	253.89	

Pirate metabolite AC 303,268 - Mallard acute oral test
Female Weight Data
8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIFPO_3

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	108847.8667	18141.3111	8.74	0.0001
Error	20	41508.8000	2075.4400		
Corrected Total	26	150356.6667			
R-Square		C.V.	Root MSB	DIFPO_3 Mean	
	0.723931	-398.0708	45.55700	-11.444444	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	108847.8667	18141.3111	8.74	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	108847.8667	18141.3111	8.74	0.0001

Pirate metabolite AC 303,268 - Mallard acute oral test
Female Weight Data
8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIFPO_7

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	169749.4667	28291.5778	37.06	0.0001
Error	20	15269.2000	763.4600		
Corrected Total	26	185018.6667			
R-Square		C.V.	Root MSB	DIFPO_7 Mean	
	0.917472	-322.9572	27.63076	-8.555556	

Pirate metabolite AC 303,268 - Mallard acute oral test
Female Weight Data
8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dependent Variable: DIFPO_14

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	70365.09630	11727.51605	14.89	0.0001
Error	20	15785.20000	787.76000		
Corrected Total	26	86120.29630			
R-Square		C.V.	Root MSB	DIFPO_14 Mean	
	0.817056	-150.6582	28.06706	-18.629630	

Pirate Metabolite AC 303,268 - Mallard active oral test 112
 Female Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIF90_3

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 20 MSB= 2075.44
 Critical Value of Dunnnett's T= 2.864

Comparisons significant at the 0.05 level are indicated by '***'.

TRTMT Comparison	Simultaneous		Difference Between Means	Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit		Lower Confidence Limit	Upper Confidence Limit
trt_160 - control	84.48	227.40	227.40	370.32	***
trt_80 - control	70.48	213.40	213.40	356.32	***
trt_40 - control	-16.91	65.60	65.60	148.11	
trt_20 - control	-44.91	37.60	37.60	120.11	
trt_10 - control	-100.91	-18.40	-18.40	64.11	
trt_5 - control	-104.51	-23.00	-23.00	60.51	

Pirate Metabolite AC 303,268 - Mallard active oral test 113
 Female Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIF90_7

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 20 MSB= 763.46
 Critical Value of Dunnnett's T= 2.864

Comparisons significant at the 0.05 level are indicated by '***'.

TRTMT Comparison	Simultaneous		Difference Between Means	Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit		Lower Confidence Limit	Upper Confidence Limit
trt_80 - control	215.72	302.40	302.40	389.08	***
trt_160 - control	214.72	301.40	301.40	388.08	***
trt_40 - control	37.55	87.60	87.60	137.65	***
trt_20 - control	-9.65	40.40	40.40	90.45	
trt_10 - control	-44.25	5.80	5.80	55.85	
trt_5 - control	-51.65	-1.60	-1.60	48.45	

Pirate Metabolite AC 303,268 - Mallard active oral test 114
 Female Weight Data
 8:47 Thursday, January 25, 1996

General Linear Models Procedure

Dunnnett's T tests for variable: DIF90_14

NOTE: This tests controls the type I experimentwise error for comparisons of all treatments against a control.

Alpha= 0.05 Confidence= 0.95 df= 20 MSB= 787.76
 Critical Value of Dunnnett's T= 2.864

Comparisons significant at the 0.05 level are indicated by '***'.

TRTMT Comparison	Simultaneous		Difference Between Means	Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit		Lower Confidence Limit	Upper Confidence Limit
trt_160 - control	149.55	237.60	237.60	325.65	***
trt_80 - control	22.55	110.60	110.60	198.65	***
trt_40 - control	2.36	53.20	53.20	104.04	***
trt_20 - control	-35.84	14.00	14.00	64.84	
trt_10 - control	-51.04	-0.20	-0.20	50.64	
trt_5 - control	-63.44	-12.60	-12.60	38.24	