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1-26-96
MRID No.: 434928-09

DATA EVALUATION RECORD
\$ 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 Northern Bobwhites
(*Collinus virginiana*)

Study Completion Date: November 11, 1994
Laboratory: Wildlife International, Easton, MD
Sponsor: American Cyanamid Company, Princeton, NJ
Laboratory Report ID: 130-166
MRID No.: 434928-09

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: *Collinus virginiana*
Test Organisms Age/Size: 29 weeks/ 184-248 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 highly toxic to upland game birds on an acute oral basis.

Results Synopsis

LD₅₀: 24.7 mg ai/kg

NOEL (Survival): 6 mg ai/kg

NOEL (Weight): 7/6 mg ai/kg

95% C.I.: 17.3 - 35.3 mg ai/kg

Probit Slope: 3.4

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8. ADEQUACY OF THE STUDY

A. Classification: Core

9. GUIDELINE DEVIATIONS

1. During the range-finding test, behavioral observations were not made before 10:00 a.m. on the day of dosing (Day 0). On Days 1 and 2 of the range-finding test, observations were made before 3:00 p.m.
2. During the definitive test, behavior observations were not made before 10:00 a.m. on the day of dosing (Day 0). On Days 4, 5, 11, and 12 of the definitive test, observations were made before 3:00 p.m.
3. On Day 3 of the definitive test, the feed consumption measurements were not made for the control group.
4. Raw data was not provided for feed consumption measurements.

10. SUBMISSION PURPOSE:

To support registration of PIRATE (AC 303,360)

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>Collinus virginiana</i>
Age at beginning of test: At least 16 weeks old.	29 weeks
Supplier	Top Flight Quail Farm Belvidere, NJ
Acclimation period: At least 15 days.	56 days

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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 - 18 hours

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, 3, 6, 12, 24, 50, 100 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

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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
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
3	10	0	0	0	0	0	0	0	0
6	10	0	0	0	0	0	0	0	0
12	10	2	0	0	0	0	0	0	2
25	10	2	4	5	5	5	5	5	5
50	10	6	8	8	8	8	8	8	8
100	10	3	6	7	7	9	10	10	10

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Other Significant Results:

No signs of toxicity were noted in the 3 and 6 mg ai/kg treatment level. Signs of intoxication at the higher treatment levels included shallow and rapid respiration, reduced reaction time to external stimuli, wing droop, lower limb weakness, lethargy, loose droppings, loss of coordination, and ruffled appearance.

A temporary decline in the body weight of treated birds was observed. No statistical comparisons could be made with the 50 and 100 mg ai/kg treatment groups due to high mortality by day 2. Body weights were significantly lower than control weights on day 3 in the 12 and 25 mg ai/kg treatment groups. By day 7 body weights were significantly lower than controls in all treatment groups. On day 14 only the 25 mg ai/kg exhibited significantly reduced weight.

Due to technician error feed consumption was not measured in the controls for the 0 to 3 day period. Historical control values showed a significant decline in feed consumption at the 25, 50 and 100 mg ai/kg test dosages during the 0 to 3 day period.

Gross necropsy findings included a small pale spleen, discolored liver, pale kidney, yellow fluid in the crop and milky fluid in the GI tract.

Reported Statistical Results

Statistical Method:

LD₅₀: 25 mg/kg

95% C.I.: 17 - 35 mg/kg

NOEL: (Survival): 6 mg/kg

NOEL: (Weight): 3 mg/kg

Probit Slope: not reported

13. Verification of Statistical Results

Statistical Method:

LD₅₀: 24.7 mg/kg

95% C.I.: 17.3 - 35.3 mg/kg

NOEL: (Survival) 6 mg/kg

NOEL: (Weight) 3 mg/kg

Probit Slope: 3.4

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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 highly toxic to upland game birds on an acute oral basis.

Eisemann Pirate Metabolite Acute Oral - Northern Bobwhite

CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
100	10	10	100	9.765625E-02
50	10	8	80	5.46875
25	10	5	50	62.30469
12	10	2	20	5.46875
6	10	0	0	9.765625E-02
3	10	0	0	9.765625E-02

THE BINOMIAL TEST SHOWS THAT 6 AND 100 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 25

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN	G	LC50	95 PERCENT CONFIDENCE LIMITS
5	.1145223	24.50899	17.20121 37.99831

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS	G	H
4	.1892409	1

GOODNESS OF FIT PROBABILITY
.930194

SLOPE = 3.392916
95 PERCENT CONFIDENCE LIMITS = 1.916935 AND 4.868896

LC50 = 24.71073
95 PERCENT CONFIDENCE LIMITS = 17.33425 AND 35.33325

LC10 = 10.43702
95 PERCENT CONFIDENCE LIMITS = 4.781838 AND 15.28054

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
1	control	1748	M	223	217	221	221	5	1	1
2	control	1773	M	207	209	217	208	-2	-10	-1
3	control	1746	M	201	199	204	202	2	-3	-1
4	control	1764	M	221	226	233	232	-5	-12	-11
5	control	1765	M	230	231	239	232	-1	-9	-11
6	control	1741	F	210	212	215	211	-2	-5	-2
7	control	1784	F	201	195	204	199	6	-3	-1
8	control	1778	F	205	203	210	201	2	-5	2
9	control	1779	F	214	214	221	214	0	-7	4
10	control	2071	F	210	213	220	217	-3	-10	0
11	control	1702	M	199	196	200	201	3	-1	-7
12	control	1737	M	220	219	220	217	1	0	-2
13	control	1768	M	227	222	224	221	5	3	3
14	control	1751	M	220	213	213	217	7	7	6
15	control	1771	M	214	209	218	220	5	-4	-6

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
16	control	2069	F	197	192	202	203	5	-5	-5
17	control	2076	F	216	210	216	219	6	0	-3
18	control	1781	F	201	201	207	207	0	-6	-6
19	control	1800	F	224	221	226	226	3	-2	-2
20	control	1793	F	227	218	225	224	9	2	3
21	control	1734	M	225	225	239	232	0	-4	-7
22	control	1703	M	220	216	221	223	4	-1	-3
23	control	1750	M	215	210	213	213	5	2	2
24	control	1749	M	244	240	244	251	8	4	-3
25	control	1775	M	226	225	230	229	1	-4	-3
26	control	1743	F	234	227	233	232	7	1	2
27	control	1794	F	184	180	190	185	4	-6	-1
28	control	1785	F	220	211	218	212	9	2	8
29	control	2074	F	209	200	205	214	9	4	-5
30	control	2075	F	192	184	193	191	8	0	1

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
31	control	1732	M	230	211	219	228	19	11	2
32	control	1777	M	199	182	190	196	12	4	-2
33	control	1763	M	194	189	196	208	17	10	-2
34	control	1738	M	206	189	196	208	17	10	-2
35	control	1761	M	197	191	200	199	6	-3	-2
36	control	1798	F	213	198	210	212	15	3	1
37	control	1799	F	209	196	203	211	13	6	-2
38	control	1703	F	197	176	186	187	21	11	10
39	control	1782	F	226	212	221	227	14	5	-1
40	control	980	F	203	203	203	203	0	0	0
41	control	1772	M	223	223	223	223	0	0	0
42	control	1731	M	218	218	218	218	0	0	0
43	control	1747	M	246	203	219	230	43	27	16
44	control	1736	M	210	210	210	210	0	0	0
45	control	1774	M	208	179	193	202	29	15	6

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
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OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
46	control	1792	F	227	202	215	219	25	12	8
47	control	1787	F	223	188	203	213	39	25	14
48	control	1788	F	227	190	197	207	32	25	15
49	control	1796	F	222	190	197	207	32	25	15
50	control	1757	F	228	201	163	175	38	47	26
51	control	1757	M	201	163	175	175	38	47	26
52	control	1735	M	201	163	175	175	38	47	26
53	control	1754	M	234	234	234	234	0	0	0
54	control	1752	M	226	226	226	226	0	0	0
55	control	1767	M	226	226	226	226	0	0	0
56	control	1702	F	201	201	201	201	0	0	0
57	control	1742	F	213	213	213	213	0	0	0
58	control	1744	F	211	211	211	211	0	0	0
59	control	1739	F	207	182	146	175	25	61	32
60	control	2077	F	205	205	205	205	0	0	0

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

OBS	TRTMT	BIRD	SEX	WT_0	WT_3	WT_7	WT_14	DIFPO_3	DIFPO_7	DIFPO_14
61	control	1756	M	217	217	217	217	0	0	0
62	control	1758	M	217	185	185	185	0	0	0
63	control	1758	M	217	185	185	185	0	0	0
64	control	1770	M	224	224	224	224	0	0	0
65	control	1766	M	232	232	232	232	0	0	0
66	control	1795	F	200	200	200	200	0	0	0
67	control	1740	F	208	208	208	208	0	0	0
68	control	1790	F	232	232	232	232	0	0	0
69	control	1790	F	224	181	181	181	0	0	0
70	control	1786	F	221	192	192	192	0	0	0

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	201.0000	230.0000	212.1000	97.5444
10	WT_3	10	195.0000	231.0000	211.9000	126.1000
10	WT_7	10	204.0000	239.0000	218.4000	128.0444
10	WT_14	10	199.0000	232.0000	213.7000	143.1222
10	DIFPO_3	10	-5.0000	6.0000	0.2000	12.4000
10	DIFPO_7	10	-12.0000	1.0000	-6.3000	16.2333
10	DIFPO_14	10	-11.0000	4.0000	-1.6000	19.1556

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

N Obs	Variable	Std Dev	Std Error
10	WT_0	9.6200	3.0421
10	WT_3	11.2294	3.5511
10	WT_7	11.2157	3.5783
10	WT_14	11.9634	3.7831
10	DIFPO_3	11.5214	1.1136

WT_7 4.0291 1.2741
DIPPO_14 4.3767 1.3840

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

TRIMNT-ctrl_100

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	200.0000	223.0000	217.9000	121.6556
3	WT_3	3	181.0000	192.0000	186.0000	31.0000
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	29.0000	43.0000	34.6667	54.3333
0	DIPPO_7	0				
0	DIPPO_14	0				

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

TRIMNT-ctrl_100

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	11.0298	11.0298	11.0298	0.0000
3	WT_3	3	5.5678	5.5678	5.5678	0.0000
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	7.3711	7.3711	7.3711	0.0000
0	DIPPO_7	0				
0	DIPPO_14	0				

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

TRIMNT-ctrl_12

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	194.0000	230.0000	207.4000	153.1556
3	WT_3	3	176.0000	212.0000	194.3750	161.9831
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	6.0000	228.0000	208.5000	207.1429
0	DIPPO_7	0				
0	DIPPO_14	0				

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

TRIMNT-ctrl_12

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	12.3756	12.3756	12.3756	0.0000
3	WT_3	3	3.9135	3.9135	3.9135	0.0000
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	4.4998	4.4998	4.4998	0.0000
0	DIPPO_7	0				
0	DIPPO_14	0				

WT_7 12.7988 4.5215
WT_14 14.3925 5.0885
DIPPO_3 4.5272 1.6360
DIPPO_7 4.7940 1.6949
DIPPO_14 4.1404 1.4639

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
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TRIMNT-ctrl_25

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	208.0000	246.0000	223.2000	111.7333
5	WT_3	5	179.0000	203.0000	192.4000	102.3000
5	WT_7	5	193.0000	219.0000	205.2000	118.7000
5	WT_14	5	202.0000	230.0000	214.2000	118.7000
5	DIPPO_3	5	25.0000	43.0000	33.6000	53.8000
5	DIPPO_7	5	12.0000	27.0000	20.8000	46.2000
5	DIPPO_14	5	6.0000	16.0000	11.8000	20.2000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

TRIMNT-ctrl_25

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	10.5704	10.5704	10.5704	0.0000
3	WT_3	3	4.5233	4.5233	4.5233	0.0000
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	7.3348	7.3348	7.3348	0.0000
0	DIPPO_7	0				
0	DIPPO_14	0				

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
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TRIMNT-ctrl_3

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	197.0000	227.0000	214.5000	113.7232
3	WT_3	3	192.0000	222.0000	210.1000	113.4333
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	201.0000	226.0000	215.1000	88.7667
0	DIPPO_7	0				
0	DIPPO_14	0				

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

TRIMNT-ctrl_3

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	12.3756	12.3756	12.3756	0.0000
3	WT_3	3	3.9135	3.9135	3.9135	0.0000
0	WT_7	0				
0	WT_14	0				
3	DIPPO_3	3	4.4998	4.4998	4.4998	0.0000
0	DIPPO_7	0				
0	DIPPO_14	0				

Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	184.0000	248.0000	217.3000	354.9000
	WT_3	10	180.0000	240.0000	211.8000	366.8444
	WT_7	10	190.0000	244.0000	217.5000	314.0556
	WT_14	10	185.0000	251.0000	218.2000	391.2889
	DIFPO_3	10	0.0000	9.0000	5.5000	10.5000
	DIFPO_7	10	-6.0000	4.0000	-0.2000	12.1778
	DIFPO_14	10	-7.0000	8.0000	-0.9000	18.5444

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 16
Combined Sex Weight Data
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Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	201.0000	234.0000	214.2000	149.9556
	WT_3	2	163.0000	182.0000	172.5000	180.5000
	WT_7	2	146.0000	154.0000	150.0000	32.0000
	WT_14	2	175.0000	175.0000	175.0000	0.0000
	DIFPO_3	2	25.0000	38.0000	31.5000	84.5000
	DIFPO_7	2	47.0000	61.0000	54.0000	98.0000
	DIFPO_14	2	26.0000	32.0000	29.0000	18.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 17
Combined Sex Weight Data
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Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	184.0000	248.0000	217.3000	354.9000
	WT_3	10	180.0000	240.0000	211.8000	366.8444
	WT_7	10	190.0000	244.0000	217.5000	314.0556
	WT_14	10	185.0000	251.0000	218.2000	391.2889
	DIFPO_3	10	0.0000	9.0000	5.5000	10.5000
	DIFPO_7	10	-6.0000	4.0000	-0.2000	12.1778
	DIFPO_14	10	-7.0000	8.0000	-0.9000	18.5444

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 18
Combined Sex Weight Data
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Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	184.0000	248.0000	217.3000	354.9000
	WT_3	10	180.0000	240.0000	211.8000	366.8444
	WT_7	10	190.0000	244.0000	217.5000	314.0556
	WT_14	10	185.0000	251.0000	218.2000	391.2889
	DIFPO_3	10	0.0000	9.0000	5.5000	10.5000
	DIFPO_7	10	-6.0000	4.0000	-0.2000	12.1778
	DIFPO_14	10	-7.0000	8.0000	-0.9000	18.5444

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 19
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	184.0000	248.0000	217.3000	354.9000
	WT_3	10	180.0000	240.0000	211.8000	366.8444
	WT_7	10	190.0000	244.0000	217.5000	314.0556
	WT_14	10	185.0000	251.0000	218.2000	391.2889
	DIFPO_3	10	0.0000	9.0000	5.5000	10.5000
	DIFPO_7	10	-6.0000	4.0000	-0.2000	12.1778
	DIFPO_14	10	-7.0000	8.0000	-0.9000	18.5444

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 20
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

Obs	Variable	N	Minimum	Maximum	Mean	Variance
10	WT_0	10	184.0000	248.0000	217.3000	354.9000
	WT_3	10	180.0000	240.0000	211.8000	366.8444
	WT_7	10	190.0000	244.0000	217.5000	314.0556
	WT_14	10	185.0000	251.0000	218.2000	391.2889
	DIFPO_3	10	0.0000	9.0000	5.5000	10.5000
	DIFPO_7	10	-6.0000	4.0000	-0.2000	12.1778
	DIFPO_14	10	-7.0000	8.0000	-0.9000	18.5444

Number of observations in data set = 70

General Linear Models Procedure
Class Level Information

Class	Level	Values
TRTMT	7	control trt_100 trt_12 trt_25 trt_3 trt_50 trt_6

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 21
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure
Dependent Variable Information

Group	Obs	Dependent Variables
3	45	DIFPO_7 DIFPO_14

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

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 22
Combined Sex Weight Data
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General Linear Models Procedure

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1476.342857	246.057143	1.54	0.1791
Error	63	10050.000000	159.523810		
Corrected Total	69	11526.342857			

R-Square	C.V.	Root MSE	WT_0 Mean
0.128084	5.868307	12.63027	215.228571

10:14 Sunday, December 31, 1995

General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 11 1178.539583 11 107.13553 1791

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 6 7071.237500 6 1178.539583 58.17 0.0001

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 11 1178.539583 11 107.13553 1791

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 6 7071.237500 6 1178.539583 58.17 0.0001

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 11 1178.539583 11 107.13553 1791

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 6 7071.237500 6 1178.539583 58.17 0.0001

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 11 1178.539583 11 107.13553 1791

Corrected Total 1178.539583 1178

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General Linear Models Procedure

Source: Type III Sum of Squares, Df, Mean Square, F Value, Pr > F

Model 6 7071.237500 6 1178.539583 58.17 0.0001

Corrected Total 1178.539583 1178

Dependent Variable: DIPPO_7

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7886.802778	1577.360556	73.25	0.0001
Error	39	839.775000	21.532592		
Corrected Total	44	8726.577778			

R-Square C.V. Root MSE DIPPO_7 Mean
0.903766 111.0718 4.640333 4.17777778

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 31
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIPPO_7

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	7886.802778	1577.360556	73.25	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	7886.802778	1577.360556	73.25	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 32
Combined Sex Weight Data
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General Linear Models Procedure

Dependent Variable: DIPPO_14

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	2259.544444	451.908889	23.94	0.0001
Error	39	736.100000	18.874359		
Corrected Total	44	2995.644444			

R-Square C.V. Root MSE DIPPO_14 Mean
0.754277 227.3266 4.344463 1.91111111

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 33
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIPPO_14

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	2259.544444	451.908889	23.94	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	2259.544444	451.908889	23.94	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 34
Combined Sex Weight Data
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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= 39 MSB= 21.53259
Critical Value of Dunnnett's T= 2.664

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

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General Linear Models Procedure

Comparison	Simultaneous		Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit	Lower Confidence Limit	Upper Confidence Limit
trt_50 - control	50.724	60.300	59.876	***
trt_25 - control	50.724	60.300	59.876	***
trt_12 - control	50.724	60.300	59.876	***
trt_6 - control	50.724	60.300	59.876	***
trt_3 - control	50.724	60.300	59.876	***

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 36
Combined Sex Weight Data
10:44 Sunday, December 31, 1995

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= 39 MSB= 18.87436
Critical Value of Dunnnett's T= 2.664

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

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General Linear Models Procedure

Comparison	Simultaneous		Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit	Lower Confidence Limit	Upper Confidence Limit
trt_50 - control	21.635	30.600	39.565	***
trt_25 - control	21.635	30.600	39.565	***
trt_12 - control	21.635	30.600	39.565	***
trt_6 - control	21.635	30.600	39.565	***
trt_3 - control	21.635	30.600	39.565	***

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 38
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	201.0000	230.0000	216.2000	140.7000
5	WT_3	5	199.0000	231.0000	216.4000	165.8000
5	WT_7	5	204.0000	239.0000	222.8000	189.2000
5	WT_14	5	202.0000	232.0000	219.0000	188.0000
5	DIFPO_3	5	-5.0000	5.0000	-0.2000	14.7000
5	DIFPO_7	5	-12.0000	1.0000	-6.6000	29.3000
5	DIFPO_14	5	-11.0000	1.0000	-2.8000	22.2000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 39
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	11.8617	12.8763	12.3647	5.3047
5	WT_3	5	12.8763	13.7550	13.3154	6.1514
5	WT_7	5	13.7550	14.6337	14.1913	6.1319
5	WT_14	5	13.7113	14.5899	14.1514	6.1319
5	DIFPO_3	5	3.8341	5.4129	4.6235	2.4207
5	DIFPO_7	5	5.4129	6.9917	6.2023	3.2275
5	DIFPO_14	5	4.7117	5.4129	5.0623	2.1071

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 40
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	204.0000	232.0000	218.8000	106.7000
5	WT_3	5	185.0000	218.0000	201.6000	106.7000
5	WT_7	5	185.0000	218.0000	201.6000	106.7000
5	WT_14	5	185.0000	218.0000	201.6000	106.7000
5	DIFPO_3	5	32.0000	32.0000	32.0000	0.0000
5	DIFPO_7	5	32.0000	32.0000	32.0000	0.0000
5	DIFPO_14	5	32.0000	32.0000	32.0000	0.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 41
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	10.3296	10.3296	10.3296	0.0000
5	WT_3	5	10.3296	10.3296	10.3296	0.0000
5	WT_7	5	10.3296	10.3296	10.3296	0.0000
5	WT_14	5	10.3296	10.3296	10.3296	0.0000
5	DIFPO_3	5	10.3296	10.3296	10.3296	0.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 42
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	194.0000	230.0000	205.2000	211.7000
5	WT_3	5	192.0000	231.0000	205.2000	211.7000
5	WT_7	5	190.0000	232.0000	205.2000	211.7000
5	WT_14	5	196.0000	232.0000	205.2000	211.7000
5	DIFPO_3	5	6.0000	19.0000	12.5000	38.2500
5	DIFPO_7	5	-3.0000	11.0000	5.5000	41.6667
5	DIFPO_14	5	-2.0000	11.0000	5.5000	41.6667

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 43
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	14.5499	14.5499	14.5499	0.0000
5	WT_3	5	12.4466	12.4466	12.4466	0.0000
5	WT_7	5	12.5266	12.5266	12.5266	0.0000
5	WT_14	5	14.4309	14.4309	14.4309	0.0000
5	DIFPO_3	5	5.8023	5.8023	5.8023	0.0000
5	DIFPO_7	5	3.2275	3.2275	3.2275	0.0000
5	DIFPO_14	5	2.0000	2.0000	2.0000	0.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 44
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	208.0000	246.0000	221.0000	232.0000
5	WT_3	5	179.0000	203.0000	191.0000	288.0000
5	WT_7	5	193.0000	219.0000	206.0000	338.0000
5	WT_14	5	202.0000	230.0000	216.0000	392.0000
5	DIFPO_3	5	29.0000	43.0000	36.0000	96.0000
5	DIFPO_7	5	15.0000	27.0000	21.0000	72.0000
5	DIFPO_14	5	6.0000	16.0000	11.0000	50.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 45
Male Weight Data
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TRTNT-control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	16.2315	16.2315	16.2315	0.0000
5	WT_3	5	16.9706	16.9706	16.9706	0.0000

WT_7 18.3848 13.0000
WT_14 19.7990 14.0000
DIFPO_3 9.8895 7.0000
DIFPO_7 8.4853 6.0000
DIFPO_14 7.0711 5.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 46
Male Weight Data
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TRTMT-ctrl_3

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	199.0000	227.0000	216.0000	111.5000
5	WT_3	5	196.0000	222.0000	211.8000	103.7000
5	WT_7	5	200.0000	234.0000	215.0000	86.0000
5	WT_14	5	201.0000	221.0000	215.2000	66.2000
5	DIFPO_3	5	1.0000	7.0000	4.2000	5.2000
5	DIFPO_7	5	-4.0000	7.0000	1.0000	17.5000
5	DIFPO_14	5	-6.0000	6.0000	0.8000	22.7000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 47
Male Weight Data
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TRTMT-ctrl_3

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	10.5594	4.7223	4.5541	4.5541
5	WT_3	5	10.1833	4.1473	3.6367	1.0198
5	WT_7	5	9.2736	4.1473	3.6367	1.0198
5	WT_14	5	8.1363	4.1473	3.6367	1.0198
5	DIFPO_3	5	2.2804	4.1473	3.6367	1.0198
5	DIFPO_7	5	4.1833	4.1473	3.6367	1.0198
5	DIFPO_14	5	4.7645	4.1473	3.6367	1.0198

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 48
Male Weight Data
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TRTMT-ctrl_50

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	201.0000	234.0000	221.0000	199.0000
5	WT_3	5	163.0000	163.0000	163.0000	0.0000
5	WT_7	5	154.0000	154.0000	154.0000	0.0000
5	WT_14	5	175.0000	175.0000	175.0000	0.0000
5	DIFPO_3	5	38.0000	38.0000	38.0000	0.0000
5	DIFPO_7	5	47.0000	47.0000	47.0000	0.0000
5	DIFPO_14	5	26.0000	26.0000	26.0000	0.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 49
Male Weight Data
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TRTMT-ctrl_50

N Obs Variable Std Dev Std Error

WT_0 14.1067 6.3087
WT_3 14.1067 6.3087
WT_7 14.1067 6.3087
WT_14 14.1067 6.3087
DIFPO_3 14.1067 6.3087
DIFPO_7 14.1067 6.3087
DIFPO_14 14.1067 6.3087

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 50
Male Weight Data
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TRTMT-ctrl_6

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	215.0000	248.0000	226.8000	159.7000
5	WT_3	5	210.0000	240.0000	223.2000	128.7000
5	WT_7	5	213.0000	244.0000	227.4000	133.3000
5	WT_14	5	213.0000	251.0000	239.6000	195.8000
5	DIFPO_3	5	0.0000	8.0000	3.6000	10.3000
5	DIFPO_7	5	-4.0000	4.0000	-0.6000	12.8000
5	DIFPO_14	5	-7.0000	2.0000	-2.8000	10.2000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 51
Male Weight Data
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TRTMT-ctrl_6

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	12.6372	5.6515	5.6515	5.6515
5	WT_3	5	11.3446	5.0735	5.1633	5.1633
5	WT_7	5	11.5456	5.1633	5.1633	5.1633
5	WT_14	5	13.9929	6.2578	6.2578	6.2578
5	DIFPO_3	5	3.2094	1.4353	1.4353	1.4353
5	DIFPO_7	5	3.5777	1.6000	1.6000	1.6000
5	DIFPO_14	5	3.1937	1.4283	1.4283	1.4283

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 52
Male Weight Data
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TRTMT-ctrl_6

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	12.6372	5.6515	5.6515	5.6515
5	WT_3	5	11.3446	5.0735	5.1633	5.1633
5	WT_7	5	11.5456	5.1633	5.1633	5.1633
5	WT_14	5	13.9929	6.2578	6.2578	6.2578
5	DIFPO_3	5	3.2094	1.4353	1.4353	1.4353
5	DIFPO_7	5	3.5777	1.6000	1.6000	1.6000
5	DIFPO_14	5	3.1937	1.4283	1.4283	1.4283

General Linear Models Procedure
Class Level Information
Number of observations in data set = 35

Group Obs Dependent Variables

1 35 WT_0
2 23 DIFPO_3

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 53
Male Weight Data

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General Linear Models Procedure
Dependent Variable Information
Group Obs Dependent Variables
3 22 DIFFO_7 DIFFO_14

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

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 54
Male Weight Data
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General Linear Models Procedure

Dependent Variable: WT_0

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1335.085714	222.514286	1.34	0.2724
Error	28	4645.200000	165.900000		
Corrected Total	34	5980.285714			

R-Square 0.223246 C.V. 5.912331 Root MSE 12.88022 WT_0 Mean 217.857143

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 55
Male Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: WT_0

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	1335.085714	222.514286	1.34	0.2724
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	1335.085714	222.514286	1.34	0.2724

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 56
Male Weight Data
10:44 Sunday, December 31, 1995

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=165.9
Critical Value of Dunnnett's T=2.731
Minimum Significant Difference=22.249

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

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General Linear Models Procedure

TRTMT Comparison	Simultaneous		Difference Between Means		Simultaneous	
	Lower Limit	Upper Limit	Confidence	Mean	Confidence	Upper Limit
trt_6 - control	-11.649	10.600	32.849			
trt_50 - control	-17.449	4.800	27.049			
trt_25 - control	-17.449	4.800	27.049			
trt_100 - control	-19.649	2.600	24.849			
trt_3 - control	-22.449	-0.200	22.049			
trt_12 - control	-33.249	-11.000	11.249			

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 58
Male Weight Data
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General Linear Models Procedure

Dependent Variable: DIFFO_3

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	3561.504348	593.584058	29.70	0.0001
Error	16	319.800000	19.987500		
Corrected Total	22	3881.304348			

R-Square 0.917605 C.V. 43.94315 Root MSE 4.470738 DIFFO_3 Mean 10.1739130

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 59
Male Weight Data
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General Linear Models Procedure

Dependent Variable: DIFFO_3

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	3561.504348	593.584058	29.70	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	3561.504348	593.584058	29.70	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 60
Male Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dunnnett's T tests for variable: DIFFO_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= 16 MSB= 19.9875
Critical Value of Dunnett's T= 2.938

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

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General Linear Models Procedure

Comparison	TRTMT	Simultaneous		Difference Between Means	Simultaneous	
		Lower Confidence Limit	Upper Confidence Limit			
ctrl_50 - control		23.810	38.200	52.590	***	
ctrl_25 - control		25.210	36.200	47.190	***	
ctrl_100 - control		17.810	32.200	46.590	***	
ctrl_12 - control		4.888	13.700	22.532	***	
ctrl_3 - control		-3.908	4.400	12.708		
ctrl_6 - control		-4.508	3.800	12.108		

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 62
Male Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_7					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3145.690909	629.138182	23.12	0.0001
Error	16	435.400000	27.212500		
Corrected Total	21	3581.090909			

R-Square 0.878417 C.V. 143.4554 Root MSE 5.216560 DIFPO_7 Mean 3.63636364
Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 63
Male Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_7					
Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	3145.690909	629.138182	23.12	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	3145.690909	629.138182	23.12	0.0001
Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 64					
Male Weight Data 10:44 Sunday, December 31, 1995					

General Linear Models Procedure

Dependent Variable: DIFPO_14

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	985.418182	197.083364	11.17	0.0001
Error	16	282.400000	17.650000		
Corrected Total	21	1267.818182			

R-Square 0.777255 C.V. 462.1329 Root MSE 4.201190 DIFPO_14 Mean 0.90909091
Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 65
Male Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_14					
Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	985.418182	197.083364	11.17	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	985.418182	197.083364	11.17	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 66
Male Weight Data
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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= 16 MSB= 27.2125
Critical Value of Dunnett's T= 2.851
Comparisons significant at the 0.05 level are indicated by '***'.

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General Linear Models Procedure

Comparison	TRTMT	Simultaneous		Simultaneous	
		Lower	Difference	Upper	
		Confidence	Between	Confidence	
		Limit	Means	Limit	
ctrl_50 - control		37.311	53.600	69.889	***
ctrl_25 - control		15.159	27.600	40.041	***
ctrl_12 - control		2.125	12.100	22.075	***
ctrl_3 - control		-1.805	7.600	17.005	
ctrl_6 - control		-3.405	6.000	15.405	

Male Weight Data

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General Linear Models Procedure

Dunnett's T tests for variable: DIFPO_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= 16 MSB= 17.65
Critical Value of Dunnett's T= 2.851

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

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General Linear Models Procedure

Comparison	Simultaneous		Simultaneous	
	Lower Confidence Limit	Difference Between Means	Upper Confidence Limit	
ctrl_50 - control	15.681	28.800	41.919	***
ctrl_25 - control	3.780	13.800	23.820	***
ctrl_3 - control	-3.874	3.600	11.174	
ctrl_12 - control	-6.234	1.800	9.834	
ctrl_6 - control	-7.574	0.000	7.574	

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 70

Female Weight Data

10:44 Sunday, December 31, 1995

TRTMT=control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	201.0000	214.0000	208.0000	25.5000
	WT_3	5	195.0000	214.0000	207.4000	67.3000
	WT_7	5	204.0000	221.0000	214.0000	50.5000
	WT_14	5	199.0000	217.0000	208.4000	63.8000
	DIFPO_3	5	-3.0000	6.0000	0.6000	12.8000
	DIFPO_7	5	-10.0000	-3.0000	-6.0000	7.0000
	DIFPO_14	5	-7.0000	4.0000	-0.4000	17.3000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 71

Female Weight Data

10:44 Sunday, December 31, 1995

TRTMT=control

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	5.0498	8.2037	6.6268	3.6688
	WT_3	5	7.1063	7.9875	7.5469	0.4500
	WT_7	5	7.1063	7.9875	7.5469	0.4500
	WT_14	5	7.1063	7.9875	7.5469	0.4500
	DIFPO_3	5	3.5777	4.1593	3.8685	0.1832
	DIFPO_7	5	3.5777	4.1593	3.8685	0.1832
	DIFPO_14	5	3.5777	4.1593	3.8685	0.1832

Female Weight Data

10:44 Sunday, December 31, 1995

TRTMT=ctrl_100

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	200.0000	232.0000	217.0000	165.0000
	WT_3	2	181.0000	192.0000	186.5000	60.5000
	WT_7	0				
	WT_14	0				
	DIFPO_3	2	29.0000	43.0000	36.0000	98.0000
	DIFPO_7	0				
	DIFPO_14	0				

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 73

Female Weight Data

10:44 Sunday, December 31, 1995

TRTMT=ctrl_100

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	12.8452	15.7446	14.2949	0.8995
	WT_3	5	12.8452	15.7446	14.2949	0.8995
	WT_7	5	12.8452	15.7446	14.2949	0.8995
	WT_14	5	12.8452	15.7446	14.2949	0.8995
	DIFPO_3	5	12.8452	15.7446	14.2949	0.8995
	DIFPO_7	5	12.8452	15.7446	14.2949	0.8995
	DIFPO_14	5	12.8452	15.7446	14.2949	0.8995

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 74

Female Weight Data

10:44 Sunday, December 31, 1995

TRTMT=ctrl_12

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	197.0000	226.0000	209.6000	130.8000
	WT_3	4	176.0000	212.0000	195.5000	219.6667
	WT_7	4	186.0000	221.0000	206.0000	215.3333
	WT_14	4	187.0000	227.0000	209.2500	273.5833
	DIFPO_3	4	13.0000	21.0000	15.7500	12.9167
	DIFPO_7	4	3.0000	11.0000	6.2500	11.5833
	DIFPO_14	4	-2.0000	10.0000	2.0000	30.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 75

Female Weight Data

10:44 Sunday, December 31, 1995

TRTMT=ctrl_12

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	10.9909	14.8212	12.4060	4.9153
	WT_3	5	14.8212	16.5404	15.6812	7.3371
	WT_7	5	14.8212	16.5404	15.6812	7.3371
	WT_14	5	14.8212	16.5404	15.6812	7.3371
	DIFPO_3	5	3.5940	4.1593	3.8767	0.1797
	DIFPO_7	5	3.5940	4.1593	3.8767	0.1797
	DIFPO_14	5	3.5940	4.1593	3.8767	0.1797

DIBP_7 3.4034 1.7017
DIBP_14 5.4772 2.7386

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 76
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_25

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	222.0000	228.0000	225.4000	7.3000
3	WT_3	3	188.0000	202.0000	191.3333	57.3333
3	WT_7	3	197.0000	215.0000	204.6667	86.3333
3	WT_14	3	207.0000	219.0000	213.0000	36.0000
3	DIBP_3	3	25.0000	39.0000	32.0000	49.0000
3	DIBP_7	3	12.0000	25.0000	20.6667	56.3333
3	DIBP_14	3	8.0000	15.0000	12.3333	14.3333

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 77
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_25

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	2.7019	2.7019	1.2083	1.2083
3	WT_3	3	7.5719	7.5719	4.3716	5.3645
3	WT_7	3	9.2916	9.2916	5.3645	3.4641
3	WT_14	3	6.0000	7.0000	4.0415	4.0415
3	DIBP_3	3	7.0000	7.0000	4.3333	4.3333
3	DIBP_7	3	7.5056	7.5056	4.3333	4.3333
3	DIBP_14	3	3.7859	3.7859	2.1859	2.1859

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 78
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_3

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	197.0000	227.0000	213.0000	181.5000
5	WT_3	5	192.0000	221.0000	208.4000	144.3000
5	WT_7	5	202.0000	226.0000	215.2000	113.7000
5	WT_14	5	203.0000	226.0000	215.8000	105.7000
5	DIBP_3	5	0.0000	9.0000	4.6000	11.3000
5	DIBP_7	5	-6.0000	2.0000	-2.2000	11.2000
5	DIBP_14	5	-6.0000	3.0000	-2.8000	13.7000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 79
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_3

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	13.4722	13.4722	6.0249	6.0249
5	WT_3	5	12.0125	12.0125	5.3722	5.3722

WT_7 18.6630 4.7686
WT_14 10.2811 4.5976
DIBP_3 3.2615 1.5021
DIBP_7 3.2466 1.4967
DIBP_14 3.7014 1.6553

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 80
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_50

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	201.0000	213.0000	207.4000	22.8000
1	WT_3	1	182.0000	182.0000	182.0000	146.0000
1	WT_7	1	146.0000	146.0000	146.0000	175.0000
1	WT_14	1	175.0000	175.0000	175.0000	25.0000
1	DIBP_3	1	25.0000	25.0000	25.0000	61.0000
1	DIBP_7	1	61.0000	61.0000	61.0000	32.0000
1	DIBP_14	1	32.0000	32.0000	32.0000	32.0000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 81
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_50

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	4.7749	4.7749	2.1356	2.1356
3	WT_3	3	4.7749	4.7749	2.1356	2.1356
3	WT_7	3	4.7749	4.7749	2.1356	2.1356
3	WT_14	3	4.7749	4.7749	2.1356	2.1356
3	DIBP_3	3	4.7749	4.7749	2.1356	2.1356
3	DIBP_7	3	4.7749	4.7749	2.1356	2.1356
3	DIBP_14	3	4.7749	4.7749	2.1356	2.1356

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 82
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_6

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	184.0000	234.0000	207.8000	413.2000
5	WT_3	5	180.0000	227.0000	200.4000	376.3000
5	WT_7	5	190.0000	233.0000	207.6000	328.3000
5	WT_14	5	185.0000	232.0000	206.8000	359.7000
5	DIBP_3	5	4.0000	9.0000	7.4000	4.3000
5	DIBP_7	5	-6.0000	4.0000	0.2000	14.2000
5	DIBP_14	5	-5.0000	8.0000	1.0000	22.5000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 83
Female Weight Data
10:44 Sunday, December 31, 1995

TRTMT=ert_6

N Obs	Variable	N	Minimum	Maximum	Mean	Variance
5	WT_0	5	10.44	10.44	10.44	10.44
5	WT_3	5	10.44	10.44	10.44	10.44
5	WT_7	5	10.44	10.44	10.44	10.44
5	WT_14	5	10.44	10.44	10.44	10.44
5	DIBP_3	5	10.44	10.44	10.44	10.44
5	DIBP_7	5	10.44	10.44	10.44	10.44
5	DIBP_14	5	10.44	10.44	10.44	10.44

5	WT_0	20.3272	9.0907
	WT_3	19.3985	8.6753
	WT_7	18.1191	8.1031
	WT_14	18.9658	8.4817
	DIPPO_3	2.0736	0.9274
	DIPPO_7	3.7683	1.6852
	DIPPO_14	4.7434	2.1212

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 84
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure
Class Level Information

Class Levels Values

TERMNT 7 control trt_100 trt_12 trt_25 trt_3 trt_50 trt_6

Number of observations in data set = 35

Group Obs Dependent Variables

1 35 WT_0
2 25 DIPPO_3

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 85
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure
Dependent Variable Information

Group Obs Dependent Variables

3 23 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 - Northern Bobwhite Active Oral Test 86
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: WT_0

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1318.000000	219.666667	1.64	0.1725
Error	28	3744.400000	133.728571		
Corrected Total	34	5062.400000			

R-Square C.V. Root MSR WT_0 Mean
0.260351 5.439373 11.56411 212.600000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 87

General Linear Models Procedure

Dependent Variable: WT_0

Source	DF	Type III Sum of Squares	Mean Square	F Value	Pr > F
TERMNT	6	1318.000000	219.666667	1.64	0.1725
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TERMNT	6	1318.000000	219.666667	1.64	0.1725

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 88
Female Weight Data
10:44 Sunday, December 31, 1995

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= 133.7286
Critical Value of Dunnnett's T= 2.731
Minimum Significant Difference= 19.976

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

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General Linear Models Procedure

TERMNT Comparison	Simultaneous		Difference Between Means	Simultaneous	
	Lower Confidence Limit	Upper Confidence Limit		Lower Confidence Limit	Upper Confidence Limit
trt_25 - control	-2.576	17.400		37.376	
trt_100 - control	-10.976	9.000		28.976	
trt_3 - control	-14.976	5.000		24.976	
trt_12 - control	-18.176	1.600		21.576	
trt_6 - control	-20.176	-0.200		19.776	
trt_50 - control	-20.576	-0.600		19.376	

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 90
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIPPO_3

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	3592.210000	598.701667	30.94	0.0001
Error	18	348.350000	19.352778		
Corrected Total	24	3940.560000			

R-Square C.V. Root MSE DIFPO_3 Mean
0.91599 34.47633 4.399179 12.760000

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 91
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_3

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	6	3592.210000	598.701667	30.94	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	6	3592.210000	598.701667	30.94	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 92
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dunnett's T tests for variable: DIFPO_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= 18 MSB= 19.35276
Critical Value of Dunnett's T= 2.888

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

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General Linear Models Procedure

TRTMT Comparison	Simultaneous Lower Confidence Limit		Difference Between Means		Simultaneous Upper Confidence Limit	
	Lower	Upper	Mean	Mean	Lower	Upper
ctrl_100 - control	24.771	35.400	46.029	***	46.029	***
ctrl_25 - control	22.122	31.400	40.678	***	40.678	***
ctrl_50 - control	10.484	24.400	38.316	***	38.316	***
ctrl_12 - control	6.628	15.150	23.672	***	23.672	***
ctrl_6 - control	-1.235	6.800	14.835		14.835	
ctrl_3 - control	-4.035	4.000	12.035		12.035	

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 94
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_7

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
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Model 5 4855.852899 971.170580 59.60 0.0001
Error 17 277.01667 16.295098
Corrected Total 22 5132.869565

R-Square C.V. Root MSE DIFPO_7 Mean
0.946031 85.96716 4.036719 4.6956217

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 95
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_7

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	4855.852899	971.170580	59.60	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	4855.852899	971.170580	59.60	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 96
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_14

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1351.942029	270.388406	13.82	0.0001
Error	17	332.66667	19.568627		
Corrected Total	22	1684.608696			

R-Square C.V. Root MSE DIFPO_14 Mean
0.802526 154.1573 4.423644 2.86956522

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 97
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dependent Variable: DIFPO_14

Source	DF	Type I SS	Mean Square	F Value	Pr > F
TRTMT	5	1351.942029	270.388406	13.82	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRTMT	5	1351.942029	270.388406	13.82	0.0001

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 98

10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dunnnett's T tests for variable: DIFPO_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= 17 MSB= 16.2951
Critical Value of Dunnnett's T= 2.827

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

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General Linear Models Procedure

TERM	Comparison	Simultaneous		Difference		Simultaneous	
		Lower	Confidence	Upper	Mean	Lower	Confidence
		Limit		Limit			
trt_50	- control	54.498		67.000		79.502	***
trt_25	- control	18.332		26.667		35.002	***
trt_12	- control	4.594		12.250		19.906	***
trt_6	- control	-1.018		6.280		13.418	
trt_3	- control	-3.418		3.800		11.018	

Pirate metabolite AC 303,268 - Northern Bobwhite Active Oral Test 100
Female Weight Data
10:44 Sunday, December 31, 1995

General Linear Models Procedure

Dunnnett's T tests for variable: DIFPO_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= 17 MSB= 19.56863
Critical Value of Dunnnett's T= 2.827

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

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General Linear Models Procedure

TERM	Comparison	Simultaneous		Difference		Simultaneous	
		Lower	Confidence	Upper	Mean	Lower	Confidence
		Limit		Limit			
trt_50	- control	18.699		32.400		46.101	***
trt_25	- control	3.600		12.733		21.867	***
trt_12	- control	-5.990		2.400		10.790	
trt_6	- control	-6.510		1.482		9.310	
trt_3	- control	-10.310		-2.400		5.510	