ORIGINAL

TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

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8EHQ-08-17198	89110000177	3/15/11

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Givaudan

March 11, 2011

Via email and USPS

Matthew G. Leopard, Director
Information Management Division
USEPA Headquarters
Ariel Rios Building
1200 Pennsylvania Avenue, N. W.
Mail Code: 7407M
Washington, DC 20460

8EHQ-08-17198

Re: Withdrawal of Confidentiality Claims

Dear Mr. Leopard,

We are writing in response to three letters from you dated February 8, 2011 regarding claims of confidentiality for the identity of five chemical substances that were the subject of reports under Section 8(e) of the Toxic Substances Control Act ("TSCA") dated March 27, 2006, July 1, 2008, and April 21 and May 19, 2009. Givaudan hereby withdraws all claims of confidentiality made with respect to the Section 8(e) reports in question. This withdrawal relates only to the five reports referenced in your letters, not to any other submission that Givaudan may have made under TSCA.

Please note this withdrawal of confidentiality is intended only to allow EPA to reveal to the public the information that was claimed confidential at the time of the reports in question. Givaudan is not relinquishing any property rights in the studies in question.

If you have any questions regarding this letter, please contact our counsel, Thomas B. Johnston, McKenna Long & Aldridge LLP, at (202) 496-7656.

Sincerely,

Greg Adamson, Ph.D.
Vice President Regulatory Affairs & Product Safety
Givaudan Fragrances Corporation

cc: Mr. Scott M. Sherlock (OPPTS)
Mr. Ryan Wallace (OPPTS)

89110000177

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08 JUL -1 PM 12:56

Writer's Direct Access

Justin C. Powell
(202) 434-4121
powell@khlaw.com

July 1, 2008

8EHQ-08-17198

Via Courier

CONTAINS TSCA CONFIDENTIAL BUSINESS INFORMATION RPW

TSCA Confidential Business Information Center (7407M)
EPA East - Room 6428 Attn: Section 8(e)
U.S. Environmental Protection Agency
1201 Constitution Avenue, N.W.
Washington DC 20004-3302

Re: Givaudan Fragrances Corporation; Submission of Preliminary Test Results for *Benzeneacetonitrile, α-cyclohexylidene-* under Section 8(e) of TSCA

Dear Sir or Madam:

On behalf of our client, Givaudan Fragrances Corporation (Givaudan), we are advising the U.S. Environmental Protection Agency (EPA) of preliminary results from an ongoing toxicity study in accordance with section 8(e) of the Toxic Substances Control Act (TSCA) as interpreted in *TSCA Section 8(e); Notification of Substantial Risk; Policy Clarification and Reporting Guidance* (68 Fed. Reg. 33,129, Jun. 3, 2003). Although it is not clear that these preliminary results are reportable under section 8(e), *per se*, Givaudan wishes us to provide this information to the Agency on their behalf consistent with Givaudan's commitment to product stewardship.

The preliminary results stem from a combined 90-day oral repeated dose and a one-generation reproductive, toxicity study being conducted in rats with *Benzeneacetonitrile, α-cyclohexylidene*, CASRN 10461-98-0. Under the study, twelve males and twelve females are dosed daily by oral gavage at each level: control, 10, 40, and 160 mg/kg. The vehicle, which also serves as the control, is corn oil. The protocol is in accordance with OECD Guideline 408.

Four high-dose females were sacrificed during weeks 5-7 of treatment for reasons of animal welfare. All of these animals were sacrificed due to a marked loss in bodyweight and poor clinical condition. One female killed during week 5 was observed to have convulsions prior to sacrifice. The remaining three females showed signs of abnormal gait and posture (tilted and/or flat), hypoactivity, partially closed eyelids and piloerection. At necropsy, all animals were noted to be thin; no other consistent macropathology findings were recorded.

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Three of the eight surviving females in the high-dose group showed signs of abnormal gait and two showed signs of abnormal posture (tilted or flat). Treatment of high-dose females has been stopped; these animals will be subject to a four-week recovery period.

All males in the high-dose group exhibited salivation and chin rubbing; up to five animals exhibited forepaw paddling. Similar observations were noted in several of the male and female animals in the mid-dose groups as well.

The onset of toxicity, as recorded during this repeated dose study, is at lower doses than previously demonstrated in acute toxicological studies (rat, oral LD_{50} = 619 mg/kg). No treatment-related clinical observations have been noted among males and females at 10 mg/kg/day.

The study is still in progress. We enclose a copy of the preliminary study and sanitized copies of this letter and the study as well as substantiation of the confidentiality claims. Givaudan will provide the Agency with a copy of the final study report when it is completed. In the meantime, should you have any questions, please do not hesitate to contact me at 202-434-4121.

Sincerely,

Justin C. Powell

Justin C. Powell, Ph.D., Esq.
Counsel for Givaudan

Enclosures

cc: G. Adamson, G. Ellis, B. Lewis, and J. Zangaro

RPU

HUNTINGDON LIFE SCIENCES

Summary 5

02 June 2008

RPW

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Study number: GEN/0048

Study title: Combined 13 Week Toxicity Study and One-Generation Study by Oral Gavage Administration

Study Director: Sadie Stamp
Study Monitor: Graham Ellis

Treatment commenced: 21 April 2008 (Subset A animals)
Terminal sacrifice: 21 July 2008
Groups covered in the summary Groups 1-4 (Subset A animals only)
Draft report (QA audited): 21 November 2008

Study design:

Subset A

Group	Treatment	Dose (mg/kg/day)	Number of animals		Animals numbered	
			Male	Female	Male	Female
1	Control	0	12	12	25-36	85-96
2	Peonile	10	12	12	1-12	73-84
3	Peonile	40	12	12	37-48	49-60
4	Peonile	160	12	12	13-24	61-72

All data and interpretation are provisional and as such, may be subject to alteration in subsequent documents.

TABLE 1

Clinical signs - group distribution of observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dosage (mg/kg/day)	:	0	10	40	160

Days 5 - 42			Number of animals affected							
		Group/sex:	1M	2M	3M	4M	1F	2F	3F	4F
Category	Observation	Number in group:	12	12	12	12	12	12	12	12
Behaviour	Underactive		0	0	0	0	0	0	0	2
Build Conformation	Thin		0	0	0	0	0	0	0	2
Build Deformity	Kinked Tail, Tail		0	0	1	0	0	0	0	0
	Swollen Area, Muzzle		0	0	0	0	0	0	0	1
Coat	Piloerection		0	0	0	0	0	0	0	3
Eye	Dull, Eyes		0	0	0	0	0	0	0	1
Eyelids	Partially Closed		0	0	0	0	0	0	0	2
	Partially Closed, Upper Eyelids		0	0	0	0	0	0	0	1
Muscle Reaction	Abnormal Gait		0	0	0	0	0	0	0	4
	Abnormal Gait, Uncoordinated		0	0	0	0	0	0	0	1
	Increased Body Tone, Whole Body		0	0	0	0	0	0	0	1
	Limited use of Limbs		0	0	0	0	0	0	0	1
Posture	Flat		0	0	0	0	0	0	0	3
	Tilted to Left		0	0	0	0	0	0	0	2
Reason for Dispatch	General poor clinical condition		0	0	0	0	0	0	0	1
	Prolonged/frequent convulsions, Marked		0	0	0	0	0	0	0	1

TABLE 1 - continued

Request ID: 125153

Clinical signs - group distribution of observations

Group	: 1	2	3	4
Compound	: Control	Peonile	Peonile	Peonile
Dosage (mg/kg)	: 0	10	40	160

Days 5 - 42

		Number of animals affected							
	Group/sex:	1M	2M	3M	4M	1F	2F	3F	4F
Category	Observation	Number in group: 12	12	12	12	12	12	12	12
Skin	Cut, Muzzle, Slight	0	0	0	0	0	0	0	1
	Cut, Nose, Moderate	0	0	0	0	0	0	0	1
	Encrustation, Muzzle	0	0	0	0	0	0	0	1
Staining	Abnormal Colour, Brown, Muzzle	0	0	0	0	0	0	0	1
	Abnormal Colour, Head	0	0	0	0	0	0	0	1
	Urine, Perianal	0	0	0	0	0	0	0	1
Behaviour	Underactive	0	0	0	0	0	0	0	2
Build Conformation	Thin	0	0	0	0	0	0	0	2
Build Deformity	Kinked Tail, Tail	0	0	1	0	0	0	0	0
	Swollen Area, Muzzle	0	0	0	0	0	0	0	1
Coat	Piloerection	0	0	0	0	0	0	0	3
Eye	Dull, Eyes	0	0	0	0	0	0	0	1
Eyelids	Partially Closed	0	0	0	0	0	0	0	2
	Partially Closed, Upper Eyelids	0	0	0	0	0	0	0	1

TABLE 1 - continued

Clinical signs - group distribution of observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dosage (mg/kg/day)	:	0	10	40	160

Days 5 - 42		Number of animals affected							
	Group/sex:	1M	2M	3M	4M	1F	2F	3F	4F
Category	Observation / Number in group:	12	12	12	12	12	12	12	12
Muscle Reaction	Abnormal Gait	0	0	0	0	0	0	0	4
	Abnormal Gait, Uncoordinated	0	0	0	0	0	0	0	1
	Increased Body Tone, Whole Body	0	0	0	0	0	0	0	1
	Limited use of Limbs	0	0	0	0	0	0	0	1
Posture	Flat	0	0	0	0	0	0	0	3
	Tilted to Left	0	0	0	0	0	0	0	2
Reason for Dispatch	General poor clinical condition	0	0	0	0	0	0	0	1
	Prolonged/frequent convulsions, Marked	0	0	0	0	0	0	0	1
Skin	Cut, Muzzle, Slight	0	0	0	0	0	0	0	1
	Cut, Nose, Moderate	0	0	0	0	0	0	0	1
	Encrustation, Muzzle	0	0	0	0	0	0	0	1
Staining	Abnormal Colour, Brown, Muzzle	0	0	0	0	0	0	0	1
	Abnormal Colour, Head	0	0	0	0	0	0	0	1
	Urine, Perianal	0	0	0	0	0	0	0	1

TABLE 2

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Behaviour									
Chin rubbing	2	0	0	0	6	0	0	0	5
	3	0	0	0	11	0	0	0	12
	4	0	0	0	10	0	0	0	12
	5	0	0	0	11	0	0	0	12
	6	0	0	0	12	0	0	0	12
	7	0	0	1	1	0	0	1	5
	9	0	0	0	7	0	0	0	5
	12	0	0	0	11	0	0	0	11
	16	0	0	0	12	0	0	0	12
	19	0	0	0	11	0	0	1	12
	23	0	0	1	10	0	0	0	11
	26	0	0	0	5	0	0	3	8
	30	0	0	1	7	0	0	6	10
	37	0	0	6	8	0	0	8	10
	39	0	0	5	12	0	0	9	10
	40	0	0	3	8	0	0	10	9
	41	0	0	2	12	0	0	6	10
	42	0	0	4	10	0	0	9	7

TABLE 2 - continued

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Behaviour (continued...)									
Fore Paw Paddling	40	0	0	0	2	0	0	1	7
	41	0	0	0	5	0	0	0	6
	42	0	0	2	1	0	0	3	4
Overactive	40	0	0	0	0	0	0	0	1
	41	0	0	0	0	0	0	0	2
	42	0	0	0	0	0	0	0	1

TABLE 2 - continued

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Behaviour (continued...)									
Salivation	3	0	0	0	2	0	0	0	5
	4	0	0	0	3	0	0	0	11
	5	0	0	0	11	0	0	0	12
	6	0	0	0	8	0	0	0	12
	7	0	0	0	0	0	0	0	1
	12	0	0	0	9	0	0	0	12
	16	0	0	3	9	0	0	4	12
	19	0	0	0	8	0	0	1	12
	23	0	0	0	12	0	0	1	12
	26	0	0	0	4	0	0	2	2
	30	0	0	0	10	0	0	0	11
	37	0	0	3	10	0	0	5	10
	39	0	0	4	12	0	0	6	6
	40	0	0	8	12	0	1	7	9
	41	0	0	3	3	0	0	3	6
	42	0	0	7	11	0	0	7	9

TABLE 2 - continued

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Behaviour (continued...)									
Underactive	1	0	0	0	0	0	0	0	1
	3	0	1	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	1
	37	0	0	0	0	0	0	0	10
	39	0	0	0	0	0	0	0	2
	40	0	0	0	0	0	0	0	6
	41	0	0	0	0	0	0	0	2
	42	0	0	0	0	0	0	0	5
Body Temperature									
Reduced	42	0	0	0	0	0	0	0	1
Coat									
Piloerection	39	0	0	0	0	0	0	0	2
	40	0	0	0	0	0	0	0	2
	41	0	0	0	0	0	0	0	1
	42	0	0	0	0	0	0	0	1
Dosing (Miscellaneous)									
Struggling	7	0	0	1	0	0	0	1	1
	26	0	0	0	0	0	0	1	0

TABLE 2 - continued

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Eyelids (Left)									
Closed	40	0	0	0	0	0	0	0	1
	42	0	0	0	0	0	0	0	1
Partially Closed	19	0	0	0	0	0	0	0	2
	37	0	0	0	0	0	0	0	10
	39	0	0	0	0	0	0	0	1
	40	0	0	0	0	0	0	0	5
	41	0	0	0	0	0	0	0	2
	42	0	0	0	0	0	0	0	4
Eyelids (Right)									
Closed	40	0	0	0	0	0	0	0	1
	42	0	0	0	0	0	0	0	1
Partially Closed	19	0	0	0	0	0	0	0	2
	37	0	0	0	0	0	0	0	10
	39	0	0	0	0	0	0	0	1
	40	0	0	0	0	0	0	0	5
	41	0	0	0	0	0	0	0	2
	42	0	0	0	0	0	0	0	4

TABLE 2 - continued

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Muscle Reaction									
Abnormal Gait	41	0	0	0	0	0	0	0	2
Unsteady	37	0	0	0	0	0	0	0	1
	38	0	0	0	0	0	0	0	1
	39	0	0	0	0	0	0	0	2
	40	0	0	0	0	0	0	0	4
	41	0	0	0	0	0	0	0	1
	42	0	0	0	0	0	0	0	5
Posture									
Flat	37	0	0	0	0	0	0	0	1
	38	0	0	0	0	0	0	0	1
	40	0	0	0	0	0	0	0	2
	42	0	0	0	0	0	0	0	2
Hunched	42	0	0	0	0	0	0	0	1

TABLE 2 - continued

Signs - group distribution of observations associated with dosing

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Sign	Day number	Group/sex and number of animals showing sign							
		1M	2M	3M	4M	1F	2F	3F	4F
Staining									
Post Salivation Staining	2	0	0	0	4	0	0	0	11
	3	0	0	0	0	0	0	2	0
	4	0	0	0	7	0	0	1	0
	19	0	0	0	0	0	0	1	2
	37	0	0	0	0	0	0	0	3
	41	0	0	0	2	0	0	0	0
	42	0	0	0	1	0	0	3	2

TABLE 3

Bodyweight - group mean values (g)

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex		Day -7	Day 1	Day 8	Day 15	Day 22	Day 29	Day 36
1M	Mean	180	241	292	330	363	390	414
	SD	8.9	10.6	16.2	20.5	24.3	27.1	29.4
	N	12	12	12	12	12	12	12
2M	Mean	188	250	295	332	364	392	417
	SD	8.5	11.4	15.6	20.9	26.7	30.8	34.4
	N	12	12	12	12	12	12	12
3M	Mean	187	249	301	345	379	410	434
	SD	8.9	14.4	17.6	23.1	31.1	34.3	37.7
	N	12	12	12	12	12	12	12
4M	Mean	188	246	294	329	355	378	396
	SD	12.1	16.0	23.8	32.9	37.7	42.6	47.3
	N	12	12	12	12	12	12	12

TABLE 3 - continued

Bodyweight - group mean values (g)

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex		Day -7	Day 1	Day 8	Day 15	Day 22	Day 29	Day 36
1F	Mean	152	178	203	224	240	256	269
	SD	5.7	7.6	8.6	12.2	12.9	13.5	13.0
	N	12	12	12	12	12	12	12
2F	Mean	151	178	201	220	237	249	261
	SD	9.6	13.4	17.7	18.3	20.3	21.4	23.7
	N	12	12	12	12	12	12	12
3F	Mean	155	182	204	222	238	249	259
	SD	4.4	7.8	7.4	9.0	9.7	9.0	10.1
	N	12	12	12	12	12	12	12
4F	Mean	155	183	210	231	248	254	270
	SD	7.9	10.3	10.3	13.6	17.6	24.2	19.8
	N.	12	12	12	12	12	12	10

TABLE 4

Bodyweight change - group mean values (g)

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex		Days -7-1	Days 1-8	Days 8-15	Days 15-22	Days 22-29	Days 29-36
1M	Mean	61	51	38	33	27	24
	SD	5.6	9.3	5.6	5.8	3.8	5.2
	N	12	12	12	12	12	12
2M	Mean	62	44	37	32	28	24
	SD	5.7	6.4	7.4	7.5	7.8	5.6
	N	12	12	12	12	12	12
3M	Mean	62	52	44	34	31	24
	SD	7.6	7.6	10.4	9.7	6.4	5.0
	N	12	12	12	12	12	12
4M	Mean	58	48	35	26	23	18
	SD	8.5	10.1	11.4	7.3	6.3	7.6
	N	12	12	12	12	12	12

TABLE 4 - continued

Bodyweight change - group mean values (g)

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex		Days -7-1	Days 1-8	Days 8-15	Days 15-22	Days 22-29	Days 29-36
1F	Mean	26	25	21	15	16	14
	SD	5.7	5.0	5.2	4.5	6.3	6.7
	N	12	12	12	12	12	12
2F	Mean	28	23	19	17	12	11
	SD	5.9	7.3	5.6	5.0	5.4	6.1
	N	12	12	12	12	12	12
3F	Mean	27	23	17	16	11	11
	SD	5.5	5.4	6.8	4.3	4.6	5.0
	N	12	12	12	12	12	12
4F	Mean	28	27	22	17	6	9
	SD	5.5	6.5	5.3	6.1	11.0	7.3
	N	12	12	12	12	12	10

TABLE 5

Food consumption - group mean values (g/animal/week)

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex		Week -1	Week 1	Week 2	Week 3	Week 4	Week 5
1M	Mean	174	184	186	181	187	188
	SD	7.3	7.6	6.0	7.1	5.7	8.7
	N	3	3	3	3	3	3
2M	Mean	178	184	183	177	182	185
	SD	0.1	5.5	6.9	2.5	4.0	2.7
	N	3	3	3	3	3	3
3M	Mean	175	187	194	187	193	190
	SD	2.6	9.9	6.7	9.4	7.6	8.1
	N	3	3	3	3	3	3
4M	Mean	171	181	188	180	183	179
	SD	6.9	7.7	11.9	7.2	8.0	12.1
	N	3	3	3	3	3	3

TABLE 5 - continued

Food consumption - group mean values (g/animal/week)

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex		Week -1	Week 1	Week 2	Week 3	Week 4	Week 5
1F	Mean	120	122	126	132	138	131
	SD	6.3	3.9	6.1	4.4	6.3	12.8
	N	3	3	3	3	3	3
2F	Mean	123	123	128	131	135	129
	SD	3.3	2.2	5.2	8.5	5.8	5.3
	N	3	3	3	3	3	3
3F	Mean	123	118	127	131	134	128
	SD	4.0	1.0	5.6	1.9	5.7	4.4
	N	3	3	3	3	3	3
4F	Mean	127	121	134	134	127	127
	SD	5.5	1.3	3.9	3.8	14.8	9.4
	N	3	3	3	3	3	3

APPENDIX 1

Clinical signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Death Day	Category	Observation	Day(s)
3M	44			Build Deformity	Kinked Tail, Tail	26, 33, 40

APPENDIX 1 - continued

Clinical signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Death Day	Category	Observation	Day(s)
4F	66	W	42	Behaviour	Underactive	42
				Build Conformation	Thin	42
				Coat	Piloerection	42
				Eyelids	Partially Closed	42
				Muscle Reaction	Abnormal Gait	40-42
					Limited use of Limbs	42
				Posture	Flat	42
					Tilted to Left	40-42
				Staining	Abnormal Colour, Brown, Muzzle	42
				Reason for Dispatch	General poor clinical condition	42
	67			Coat	Piloerection	41-42
				Eyelids	Partially Closed	42
				Muscle Reaction	Abnormal Gait	40-42
	68			Muscle Reaction	Abnormal Gait	40-42
				Posture	Tilted to Left	41
				Staining	Abnormal Colour, Head	33, 39-40

APPENDIX 1 - continued

Clinical signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Death Day	Category	Observation	Day(s)
4F	69	W	35	Behaviour	Underactive	35
				Build Conformation	Thin	35
				Coat	Piloerection	35
				Eyelids	Partially Closed, Upper Eyelids	35
				Eye	Dull, Eyes	35
				Muscle Reaction	Abnormal Gait, Uncoordinated	32-35
					Increased Body Tone, Whole Body	32-35
				Posture	Flat	33-35
				Staining	Urine, Perianal	32-35
	70			Build Deformity	Swollen Area, Muzzle	29-30
				Muscle Reaction	Abnormal Gait	40-42
				Posture	Flat	40-42
				Skin	Cut, Muzzle, Slight	29-30
					Encrustation, Muzzle	33, 39-42
				Comments:	*animal bitten by cage mate 71 see daybook*	*29-30, 33, 39-42*
	71	W	29	Skin	Cut, Nose, Moderate	29
				Reason for Dispatch	Prolonged/frequent convulsions, Marked	29
				Comments:	*see daybook*	*29*

APPENDIX 2

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
2M	5		Treatment	Behaviour Underactive	3

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3M	37		Treatment	Behaviour	
				Fore Paw Paddling	42
				Salivation	40, 42
				Chin rubbing	23, 37, 39
				Chin rubbing, Slight	41-42
				Chin rubbing, Moderate	42
	38		Treatment	Behaviour	
				Salivation	40
				Chin rubbing	37
	39		Treatment	Behaviour	
				Fore Paw Paddling	42
				Salivation	16, 37, 39-42
				Chin rubbing	37
				Chin rubbing, Slight	42
	40		Treatment	Behaviour	
				Salivation	42
				Chin rubbing	37
				Chin rubbing, Slight	42

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3M	41		Treatment	Behaviour	
				Salivation	40
				Chin rubbing	30, 39
				Chin rubbing, Slight	40
	42		Treatment	Behaviour	
				Salivation	40, 42
				Chin rubbing, Moderate	40
	43		Treatment	Behaviour	
				Chin rubbing	39
	44		Treatment	Dosing (Miscellaneous)	
				Struggling	7
				Behaviour	
				Salivation	16, 39-42
				Chin rubbing	7
	45		Treatment	Behaviour	
				Salivation	37, 39-40, 42
				Chin rubbing	37, 39
				Chin rubbing, Slight	40-41

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3M	46		Treatment	Behaviour	
				Salivation	16, 37, 39-42
				Chin rubbing	37
				Chin rubbing, Slight	42
	47		Treatment	Behaviour	
				Chin rubbing	39

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4M	13		Treatment	Behaviour	
				Salivation	5, 23, 39-40
				Chin rubbing	2-6, 9, 16, 19, 23, 37, 39
				Chin rubbing, Slight	40
				Chin rubbing, Marked	41-42
				Staining	
				Post Salivation Staining	4
	14		Treatment	Behaviour	
				Fore Paw Paddling	40-42
				Salivation	3-6, 23, 39-40, 42
				Chin rubbing	2-6, 9, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing, Marked	40-42
	15		Treatment	Behaviour	
				Fore Paw Paddling	41
				Salivation	5, 19, 23, 30, 37, 39-40, 42
				Chin rubbing	3-6, 12, 16, 19, 23, 26, 30, 39
				Chin rubbing, Slight	42
				Chin rubbing, Moderate	41
				Staining	
				Post Salivation Staining	4

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4M	16		Treatment	Behaviour	
				Fore Paw Paddling	40-41
				Salivation	5-6, 12, 16, 19, 23, 30, 37, 39-42
				Chin rubbing	2-3, 5-6, 9, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing, Slight	42
				Chin rubbing, Moderate	42
				Chin rubbing, Marked	41
				Staining	
				Post Salivation Staining	4
	17		Treatment	Behaviour	
				Salivation	5-6, 12, 16, 19, 23, 30, 37, 39-42
				Chin rubbing	2-3, 6, 9, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing, Moderate	41-42
				Staining	
				Post Salivation Staining	4

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4M	18		Treatment	Behaviour	
				Fore Paw Paddling	41
				Salivation	5-6, 12, 16, 19, 23, 26, 30, 37, 39-40, 42
				Chin rubbing	3-6, 12, 16, 19, 26, 30, 37, 39
				Chin rubbing, Slight	41
				Chin rubbing, Moderate	40
				Staining	
				Post Salivation Staining	4, 42
	19		Treatment	Behaviour	
				Salivation	5-6, 12, 16, 23, 30, 37, 39-40, 42
				Chin rubbing	3-6, 9, 12, 16, 19, 23, 39
				Chin rubbing, Moderate	40-41
				Staining	
				Post Salivation Staining	4, 41
	20		Treatment	Behaviour	
				Salivation	5-6, 12, 16, 19, 23, 30, 37, 39-42
				Chin rubbing	2-6, 12, 16, 19, 23, 26, 30, 37, 39
				Chin rubbing, Slight	40, 42
				Chin rubbing, Moderate	41
				Staining	
				Post Salivation Staining	4

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4M	21		Treatment	Behaviour	
				Salivation	3-6, 12, 16, 19, 23, 30, 37, 39-40, 42
				Chin rubbing	3-6, 9, 12, 16, 23, 39
				Chin rubbing, Slight	40-41
				Chin rubbing, Marked	42
				Staining	
				Post Salivation Staining	2
	22		Treatment	Behaviour	
				Salivation	5, 12, 16, 19, 23, 26, 30, 37, 39-40, 42
				Chin rubbing	3-6, 12, 16, 19, 23, 26, 37, 39
				Chin rubbing, Slight	40
				Chin rubbing, Marked	41-42
				Staining	
				Post Salivation Staining	2
	23		Treatment	Behaviour	
				Salivation	12, 16, 23, 26, 30, 37, 39-40, 42
				Chin rubbing	2, 4-7, 12, 16, 19, 23, 26, 39
				Chin rubbing, Moderate	40
				Chin rubbing, Marked	41-42
				Staining	
				Post Salivation Staining	2

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4M	24		Treatment	Behaviour	
				Fore Paw Paddling	41
				Salivation	4-6, 12, 16, 19, 23, 26, 30, 37, 39-40, 42
				Chin rubbing	3-6, 9, 12, 16, 19, 30, 37, 39
				Chin rubbing, Moderate	42
				Chin rubbing, Marked	41
				Staining	
				Post Salivation Staining	2, 41

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
2F	78		Treatment	Behaviour	
				Salivation	40

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3F	50		Treatment	Behaviour	
				Salivation	39, 41-42
				Chin rubbing	30, 37
				Chin rubbing, Slight	42
	51		Treatment	Behaviour	
				Fore Paw Paddling	42
				Salivation	39-40, 42
				Chin rubbing	39
				Chin rubbing, Slight	40, 42
				Chin rubbing, Moderate	41
				Staining	
				Post Salivation Staining	3-4, 42
	52		Treatment	Behaviour	
				Salivation	40, 42
				Chin rubbing	26, 30, 37, 39
				Chin rubbing, Slight	40
				Chin rubbing, Moderate	41-42

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3F	53		Treatment	Dosing (Miscellaneous)	
				Struggling	26
				Behaviour	
				Fore Paw Paddling	42
				Chin rubbing	37, 39
				Chin rubbing, Moderate	40, 42
	54		Treatment	Behaviour	
				Salivation	16, 26, 37, 42
				Chin rubbing	26, 30, 39
				Chin rubbing, Slight	40, 42
				Staining	
				Post Salivation Staining	42
	55		Treatment	Behaviour	
				Chin rubbing, Moderate	40
	56		Treatment	Behaviour	
				Salivation	16, 37, 39-40, 42
				Chin rubbing	30, 37, 39
				Chin rubbing, Moderate	40-42
				Staining	
				Post Salivation Staining	42

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3F	57		Treatment	Behaviour	
				Fore Paw Paddling	42
				Salivation	40
				Chin rubbing	37, 39
				Chin rubbing, Slight	41
				Chin rubbing; Moderate	40
				Chin rubbing, Marked	42
	58		Treatment	Dosing (Miscellaneous)	
				Struggling	7
				Behaviour	
				Fore Paw Paddling	40
				Salivation	16, 19, 37, 39-40
				Chin rubbing	7, 19, 30, 37, 39
				Chin rubbing, Slight	40, 42
				Chin rubbing, Moderate	40-41
	59		Treatment	Behaviour	
				Salivation	37, 39-42
				Chin rubbing	37, 39
				Chin rubbing, Moderate	40
				Staining	
				Post Salivation Staining	3, 19

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
3F	60		Treatment	Behaviour	
				Salivation	16, 23, 26, 37, 39-42
				Chin rubbing	26, 30, 37, 39
				Chin rubbing, Slight	42
				Chin rubbing, Moderate	40-41

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	61		Treatment	Behaviour	
				Underactive	37, 40, 42
				Salivation	4-6, 12, 16, 19, 23, 30, 37, 39-40, 42
				Chin rubbing	3-7, 12, 16, 19, 23, 26, 37, 39
				Chin rubbing, Slight	40, 42
				Chin rubbing, Moderate	40, 42
				Chin rubbing, Marked	41
				Eyelids (Left)	
				Closed	42
				Partially Closed	19, 37, 40, 42
				Eyelids (Right)	
				Closed	42
				Partially Closed	19, 37, 40, 42
				Staining	
				Post Salivation Staining	2

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	62		Treatment	Behaviour	
				Fore Paw Paddling	40-41
				Overactive	41
				Underactive	37, 40
				Salivation	4-6, 12, 16, 19, 23, 30, 37, 39-40, 42
				Chin rubbing	2-6, 12, 16, 19, 23, 26, 30, 37, 39
				Chin rubbing, Marked	40-41
				Eyelids (Left)	
				Partially Closed	37
				Eyelids (Right)	
				Partially Closed	37
				Staining	
				Post Salivation Staining	2, 42

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dosé (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	63		Treatment	Behaviour	
				Fore Paw Paddling	40-41
				Underactive	37, 40
				Salivation	4-6, 12, 16, 19, 23, 30, 37, 39-42
				Chin rubbing	3-7, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing, Slight	40, 42
				Chin rubbing, Moderate	40, 42
				Chin rubbing, Marked	41
				Eyelids (Left)	
				Partially Closed	37, 40
				Eyelids (Right)	
				Partially Closed	37, 40
				Staining	
				Post Salivation Staining	2, 37, 42

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	64		Treatment	Dosing (Miscellaneous)	
				Struggling	7
				Behaviour	
				Fore Paw Paddling	41
				Underactive	37, 40, 42
				Salivation	3-6, 12, 16, 19, 23, 30, 37, 39-40, 42
				Chin rubbing	3-7, 9, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing, Marked	41
				Eyelids (Left)	
				Partially Closed	37, 40, 42
				Eyelids (Right)	
				Partially Closed	37, 40, 42
				Muscle Reaction	
				Unsteady	42
				Posture	
				Flat	42
				Staining	
				Post Salivation Staining	2, 37

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	65		Treatment	Behaviour	
				Fore Paw Paddling	40, 42
				Underactive	37
				Salivation	4-6, 12, 16, 19, 23, 30, 37, 40, 42
				Chin rubbing	3-6, 9, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing; Slight	40
				Chin rubbing, Marked	40-42
				Eyelids (Left)	
				Partially Closed	37
				Eyelids (Right)	
				Partially Closed	37
				Muscle Reaction	
				Unsteady	42
				Posture	
				Flat	40
				Staining	
				Post Salivation Staining	2, 37

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	66	W	Treatment	Behaviour	
				Fore Paw Paddling	40-41
				Underactive	37, 39-41
				Salivation	3, 5-6, 12, 16, 19, 23, 30, 37, 41
				Chin rubbing	3-6, 9, 12, 16, 19, 26, 30, 37, 39
				Chin rubbing, Marked	40-41
				Coat	
				Piloerection	39-40
				Eyelids (Left)	
				Partially Closed	37, 39-41
				Eyelids (Right)	
				Partially Closed	37, 39-41
				Muscle Reaction	
				Abnormal Gait	41
				Unsteady	37, 39-40
				Posture	
				Flat	37-38, 40
				Staining	
				Post Salivation Staining	2, 19
				Comments:	
				Abnormal gait - animal walking with rear elevated and front flattened.	41

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	67		Treatment	Behaviour	
				Fore Paw Paddling	40-42
				Underactive	37, 39-42
				Salivation	4-6, 12, 16, 19, 23, 30, 37, 40-42
				Chin rubbing	3-6, 12, 16, 19, 23, 30, 37, 39
				Chin rubbing, Slight	40
				Chin rubbing, Moderate	40
				Chin rubbing, Marked	40-42
				Body Temperature	
				Reduced	42
				Coat	
				Piloerection	39-42
				Eyelids (Left)	
				Closed	40
				Partially Closed	37, 40-42
				Eyelids (Right)	
				Closed	40
				Partially Closed	37, 40-42
				Muscle Reaction	
				Unsteady	39-42
				Posture	
				Hunched	42
				Staining	
				Post Salivation Staining	2

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	68		Treatment	Behaviour	
				Fore Paw Paddling	40-42
				Overactive	40-42
				Underactive	37, 42
				Salivation	4-6, 12, 16, 19, 23, 26, 30, 37, 40-42
				Chin rubbing	3-6, 9, 12, 16, 19, 23, 26, 30, 37, 39
				Chin rubbing, Slight	42
				Chin rubbing, Moderate	40
				Chin rubbing, Marked	40-42
				Eyelids (Left)	
				Partially Closed	37
				Eyelids (Right)	
				Partially Closed	37
				Muscle Reaction	
				Abnormal Gait	41
				Unsteady	40, 42
				Posture	
				Flat	42
				Staining	
				Post Salivation Staining	2
				Comments:	
				Abnormal Gait - Elevated.	41

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group :	1	2	3	4
Compound :	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day) :	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	69	W	Treatment	Behaviour	
				Salivation	3-6, 12, 16, 19, 23, 30
				Chin rubbing	2-6, 12, 16, 19, 23, 26, 30
	70		Treatment	Behaviour	
				Fore Paw Paddling	40, 42
				Underactive	1, 37, 42
				Salivation	3-6, 12, 16, 19, 23, 30, 37, 39-42
				Chin rubbing	2-7, 16, 19, 23, 26, 30, 37, 39
				Chin rubbing, Slight	41-42
				Chin rubbing, Moderate	41-42
				Chin rubbing, Marked	40
				Eyelids (Left)	
				Partially Closed	37, 42
				Eyelids (Right)	
				Partially Closed	37, 42
				Muscle Reaction	
				Unsteady	38, 40, 42
				Staining	
				Post Salivation Staining	2

APPENDIX 2 - continued

Request ID: 125193

Dosing signs - individual observations

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Group /Sex	Animal Number	Death Code	Phase	Sign	Day(s)
4F	71	W	Treatment	Behaviour	
				Underactive	19
				Salivation	3-7, 12, 16, 19, 23, 26
				Chin rubbing	2-7, 9, 12, 16, 19, 23, 26
				Eyelids (Left)	
				Partially Closed	19
				Eyelids (Right)	
				Partially Closed	19
				Staining	
				Post Salivation Staining	2, 19
	72		Treatment	Behaviour	
				Underactive	37
				Salivation	4-6, 12, 16, 19, 23, 30, 37, 39-42
				Chin rubbing	2-6, 12, 16, 19, 23, 26, 30, 37, 39
				Chin rubbing, Slight	41-42
				Chin rubbing, Moderate	42
				Chin rubbing, Marked	40-41
				Eyelids (Left)	
				Partially Closed	37
				Eyelids (Right)	
				Partially Closed	37
				Staining	
				Post Salivation Staining	2

APPENDIX 4

Macropathology - individual findings

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Animal Number: 66 Sex: Female Dose Group: 4 Phase: Treatment Sacrifice Status: Killed for welfare reasons
Date of Death: 01-Jun-08 Day of Death: 42 Week of Death: 6 Subgroup: 1 Terminal Bodyweight: 226.3 g

MACROPATHOLOGY OBSERVATIONS

Thymus
Dark area(s), Left lobe, Few punctate foci

General Comments
Animal thin
Abnormal contents GI tract, Pale
Abnormal contents GI tract, Clear fluid, Colon and jejunum.
Fur stained, Muzzle, Brown

Macropathology - individual findings

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Animal Number: 69 Sex: Female Dose Group: 4 Phase: Treatment Sacrifice Status: Killed for welfare reasons
Date of Death: 25-May-08 Day of Death: 35 Week of Death: 5 Subgroup: 1 Terminal Bodyweight: 200.6 g

MACROPATHOLOGY OBSERVATIONS

Adipose tissue
Minimal

Teeth
Incisor(s) pale area(s), Lower, Few poorly defined

General Comments
Animal thin

Macropathology - individual findings

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Animal Number: 71 Sex: Female Dose Group: 4 Phase: Treatment Sacrifice Status: Killed for welfare reasons
Date of Death: 19-May-08 Day of Death: 29 Week of Death: 5 Subgroup: 1 Terminal Bodyweight: 205.2 g

MACROPATHOLOGY OBSERVATIONS

Adipose tissue
Minimal
Dark, Mesentery

Ileum
Dark

Jejunum
Dark

Kidneys
Dark, Medulla

LN Mandibular
Dark area(s), Few poorly defined

Liver
Dark

Pancreas
Thickened

APPENDIX 4 - continued

Request ID: 125161

Macropathology - individual findings

Group	:	1	2	3	4
Compound	:	Control	Peonile	Peonile	Peonile
Dose (mg/kg/day)	:	0	10	40	160

Animal Number: 71 Sex: Female Dose Group: 4 Phase: Treatment Sacrifice Status: Killed for welfare reasons
Date of Death: 19-May-08 Day of Death: 29 Week of Death: 5 Subgroup: 1 Terminal Bodyweight: 205.2 g

MACROPATHOLOGY OBSERVATIONS

continued from previous page...

Pituitary
- Dark

Skin
Scab(s), Side(s) of face, Right, Dark, 2x2mm, on muzzle.

Thymus
Dark area(s), Multiple, <2x2mm.

Uterus
Fluid distension, <6mm dia.

General Comments
Animal thin

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