

**II-Addendum 4-1. Physical development test;
vaginal opening of offspring- individual values
continued**

BPA 0.5 μ g/kg/day

Animal No.	Age at vaginal opening (days)	Body weight at vaginal opening (g)
147	35	146.4
148	33	126.1
149	32	122.8
150	33	127.4
151	31	116.6
152	34	126.7
153	38	140.0
154	38	158.1
155	35	142.2
156	37	157.2
157	33	132.6
158	32	115.9
159	33	128.2
160	31	111.0
161	32	129.9
162	30	105.5
163	37	153.9
164	31	107.3
165	34	139.8
166	31	101.7
167	34	125.6
168	31	110.1
169	31	98.1
170	29	97.8
171	32	114.1
172	33	117.4
173	31	109.1
174	31	112.1
175	34	115.7
176	37	141.0
177	34	122.8
178	33	105.7
179	35	136.8
180	34	130.5

**II-Addendum 4-1. Physical development test;
vaginal opening of offspring- individual values
continued**

BPA 5 μ g/kg/day

Animal No.	Age at vaginal opening (days)	Body weight at vaginal opening (g)
181	38	149.7
182	37	134.3
183	33	121.0
184	30	101.7
185	35	134.8
186	34	131.0
187	38	154.4
188	38	169.0
189	33	125.4
190	36	136.5
191	35	143.3
192	35	123.1
193	33	133.8
194	35	133.9
195	37	156.9
196	34	138.7
197	36	152.2
198	36	150.6
199	32	140.2
200	35	157.1
201	37	171.7
202	33	140.5
203	37	159.5
204	37	154.2
205	37	143.7
206	33	123.8
207	33	127.0
208	34	135.9
209	33	124.3
210	33	138.1
211	33	133.8
212	35	143.1
213	33	129.7
214	32	139.1
215	31	120.1

**II-Addendum 4-1. Physical development test;
vaginal opening of offspring- individual values
continued**

BPA 50 μ g/kg/day

Animal No.	Age at vaginal opening (days)	Body weight at vaginal opening (g)
216	32	118.0
217	32	108.8
218	33	123.3
219	30	97.6
220	35	134.5
221	33	125.5
222	32	103.6
223	34	111.9
224	33	111.1
225	33	114.4
226	33	112.8
227	34	115.2
228	31	114.9
229	37	160.0
230	30	104.9
231	34	137.4
232	35	146.7
233	36	151.1
234	40	158.0
235	33	128.6
236	34	133.9
237	38	154.1
238	38	151.5
239	34	125.8
240	34	135.8
241	33	116.6
242	34	123.1
243	37	160.4
244	38	179.2
245	40	185.0
246	38	190.5
247	37	156.2
248	33	131.4
249	32	121.2
250	33	121.6
251	33	121.6
252	34	139.8
253	34	134.0
254	35	128.7
255	33	115.9
256	33	110.9
257	34	128.3
258	33	121.0
259	35	123.0
260	32	114.9
261	37	138.2

II-Addendum 4-2. Physical development test; preputial separation of offspring - individual values

Vehicle control												
Animal No.	PND	PND	PND	PND	PND	PND	PND	PND	PND	PND	PND	B.W. at complete separation (g)
	35	36	37	38	39	40	41	42	43	44	Complete separation (days)	
501	W	W	W	W	W	W	W	U			42	198.0
502	W	W	W	W	W	W	W	U			42	214.2
503	W	W	W	W	W	W	U				41	215.8
504	W	W	W	W	W	W	U				41	246.1
505	W	W	W	W	W	W	U				41	259.5
506	W	W	W	W	W	W	U				41	276.6
507	-	-	-	-	-	-	-	-	-	-	Dead	-
508	W	W	W	U							38	209.1
509	W	W	W	W	U						39	216.8
510	W	W	W	W	W	W	U				41	232.3
511	W	W	W	W	W	U					40	201.8
512	W	W	W	W	W	W	W	U			42	231.3
513	W	W	W	W	W	W	W	U			42	221.8
514	W	W	W	W	W	U					40	215.7
515	W	W	W	W	W	U					40	204.2
516	W	W	W	W	W	W	U				41	224.1
517	W	W	W	W	W	U					40	224.0
518	W	W	W	W	W	U					40	218.1
519	W	W	W	W	U						39	199.0
520	W	W	W	W	W	U					40	210.5

V-Type: V W-Type: W U-Type: U

II-Addendum 4-2. Physical development test; preputial separation of offspring - individual values
continued

Animal No.	BPA 0.5 μ g/kg/day														B.W. at complete separation (g)
	PND 35	PND 36	PND 37	PND 38	PND 39	PND 40	PND 41	PND 42	PND 43	PND 44	Complete separation (days)				
521	W	W	W	W	W	W	W	U				41			253.2
522	W	W	W	W	U							39			210.9
523	W	W	W	W	U							39			207.1
524	W	W	W	W	W	W	U					41			231.3
525	W	W	W	W	U							39			197.3
526	W	W	W	W	W	W	U					41			236.5
527	W	W	W	W	W	W	U					41			218.6
528	W	W	U									37			163.1
529	W	W	W	W	W	W	U					41			209.7
530	W	W	W	W	W	W	U					41			217.5
531	W	W	W	W	W	W	U					41			196.2
532	W	W	W	W	W	W	U					41			203.8

V-Type: V W-Type: W U-Type: U

II-Addendum 4-2. Physical development test; preputial separation of offspring - individual values
continued

BPA 5 μ g/kg/day															B.W. at complete separation (g)
Animal No.	PND 35	PND 36	PND 37	PND 38	PND 39	PND 40	PND 41	PND 42	PND 43	PND 44	Complete separation (days)				
533	W	W	W	W	W	W	U				41			203.4	
534	W	W	W	W	W	W	U				41			204.6	
535	W	W	W	W	W	W	U				41			206.5	
536	W	W	W	W	W	W	W	U			42			235.0	
537	W	W	W	W	W	W	U				41			191.3	
538	W	W	W	W	W	W	U				41			236.1	
539	W	W	W	W	W	W	U				41			220.5	
540	W	W	W	W	W	W	U				41			208.3	
541	W	W	W	W	W	U					40			242.8	
542	W	W	W	W	W	U					40			246.9	
543	W	W	W	W	W	U					40			242.7	
544	W	W	W	W	W	U					40			237.4	
545	W	W	W	W	W	W	U				41			228.4	
546	W	W	W	W	W	U					40			237.9	

V-Type: V W-Type: W U-Type: U

II-Addendum 4-2. Physical development test; preputial separation of offspring - individual values
continued

BPA 50 µg/kg/day																B.W. at complete separation (g)
Animal No.	PND 35	PND 36	PND 37	PND 38	PND 39	PND 40	PND 41	PND 42	PND 43	PND 44	Complete separation (days)					
547	W	W	W	W	W	W	U				41			206.5		
548	W	W	W	W	W	W	W	U			42			242.8		
549	W	W	W	W	W	W	W	W	U		43			207.2		
550	W	W	W	W	W	W	W	U			42			208.3		
551	W	W	W	W	W	W	W	U			42			223.9		
552	W	W	W	W	W	W	W	U			42			214.8		
553	W	W	W	W	W	W	W	W	U		43			235.5		
554	W	W	W	W	W	W	U				41			234.1		
555	W	W	W	W	W	W	U				41			221.0		
556	W	W	W	W	W	W	W	W	U		43			224.8		
557	W	W	W	W	W	W	W	U			42			243.8		
558	W	W	W	W	W	U					40			255.0		
559	W	W	W	U	W	W					38			209.7		
560	W	W	W	W	W	U					40			206.9		
561	W	W	W	W	U						39			203.0		
562	W	W	W	W	U						39			180.9		
563	W	W	W	W	W	W	W	W	W	U	44			218.1		
564	W	W	W	W	W	W	W	W	U		43			189.0		

V-Type: V W-Type: W U-Type: U

II-Addendum 5-1. Estrus cycle - individual findings following the time course at 3 months

Vehicle control

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
101	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
102	E	M	D	D	E	E	M	D	D	E	E	M	D	D	N
104	P	E	M	D	D	E	E	M	D	D	P	E	M	D	N
105	E	M	D	P	E	M	D	D	E	M	D	D	E	M	N
107	P	E	M	D	P	E	M	D	P	E	M	D	D	E	N
109	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
110	D	E	M	D	D	E	M	D	P	E	M	D	D	E	N
111	D	D	E	M	D	D	E	M	D	P	E	M	D	D	N
112	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
114	P	E	M	D	D	E	M	D	D	E	M	D	D	E	N
115	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
117	E	M	D	D	E	M	D	D	E	M	D	P	E	M	N
118	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
120	D	P	E	M	D	P	E	M	D	P	E	M	D	D	N
121	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
123	D	P	E	M	D	D	P	E	M	D	D	E	M	D	N
124	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
125	E	M	D	D	D	E	E	M	D	D	E	M	D	D	N
127	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
128	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
129	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
131	M	D	D	P	E	M	D	D	E	M	D	D	D	E	N
133	D	P	E	M	D	P	E	M	D	P	E	M	D	D	N
134	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
137	M	D	E	M	D	P	E	M	D	P	E	M	D	D	N
138	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
139	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
142	E	M	D	P	E	M	D	D	E	M	D	P	E	M	N
143	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
145	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
146	D	P	E	M	D	P	E	M	D	P	E	M	D	P	N
Total														31	
Normal														31	
Abnormal														0	
PD														0	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

**II-Addendum 5-1. Estrus cycle - individual findings following the time course at 3 months
continued**

BPA 0.5 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
147	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
149	M	D	P	E	M	D	D	P	E	M	D	D	E	M	N
150	E	E	M	D	D	P	E	M	D	D	E	E	M	D	N
151	P	E	M	D	D	P	E	M	D	D	E	M	D	D	N
152	D	E	M	D	D	P	E	M	D	D	E	M	D	D	N
154	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
155	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
157	M	D	D	E	M	D	D	E	M	D	P	E	M	D	N
159	M	D	E	M	D	P	E	M	D	D	E	M	D	P	N
160	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
162	D	E	M	D	D	E	M	D	D	E	M	D	P	E	N
164	E	M	D	P	E	M	D	D	E	M	D	P	E	M	N
165	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
166	E	M	D	D	E	M	D	P	E	M	D	P	E	M	N
167	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
170	M	D	E	M	D	D	E	M	D	P	E	M	D	P	N
171	D	E	M	D	D	E	M	D	D	E	M	D	D	D	N
172	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
173	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
175	D	E	M	D	P	E	M	D	D	E	M	D	D	E	N
176	M	D	D	E	M	D	D	E	M	D	P	E	M	D	N
177	D	E	M	D	D	E	M	D	P	E	M	D	D	E	N
180	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
														Total	23
														Normal	23
														Abnormal	0
														PD	0
														CD	0
														PE	0
														CE	0
														IE	0

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

II-Addendum 5-1. Estrus cycle - individual findings following the time course at 3 months
continued

BPA 5 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
181	E	M	D	P	E	M	D	D	E	M	D	D	E	M	N
182	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
184	P	E	M	D	D	P	E	M	D	D	E	M	D	D	N
185	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
189	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
190	D	D	E	M	D	P	E	M	D	P	E	M	D	D	N
191	D	E	M	D	P	E	M	D	P	E	M	D	D	E	N
193	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
194	E	M	D	D	P	E	M	D	D	E	M	D	D	D	N
195	M	D	P	E	M	D	D	E	M	D	D	D	E	M	N
198	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
199	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
201	M	D	D	E	M	D	P	E	M	D	D	E	M	D	N
202	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
204	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
206	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
208	M	D	D	E	M	D	D	E	M	D	D	P	E	M	N
209	D	E	E	M	D	D	P	E	M	D	D	P	E	M	N
210	D	D	E	M	D	P	E	M	D	P	E	M	D	D	N
212	E	M	D	D	E	M	D	P	E	M	D	P	E	M	N
213	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
214	E	M	D	D	E	M	D	D	E	E	M	D	D	D	N
Total														22	
Normal														22	
Abnormal														0	
PD														0	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

**II-Addendum 5-1. Estrus cycle - individual findings following the time course at 3 months
continued**

BPA 50 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
217	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
218	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
219	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
220	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
223	M	D	E	M	D	P	E	M	D	D	E	M	D	D	N
224	M	D	E	M	D	P	E	M	D	D	E	M	D	D	N
226	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
227	E	M	D	P	E	M	D	D	E	M	D	D	E	M	N
229	D	E	M	D	D	D	P	E	M	D	D	P	E	M	N
230	M	D	D	P	E	M	D	D	P	E	M	D	D	E	N
232	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
233	D	E	M	D	P	E	M	D	D	E	M	D	D	E	N
235	M	D	P	E	M	D	P	E	M	D	D	E	M	D	N
236	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
237	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
238	D	P	E	M	D	P	E	M	D	P	E	M	D	D	N
241	P	E	M	D	D	P	E	M	D	D	E	M	D	P	N
242	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
243	D	D	E	M	D	P	E	M	D	P	E	M	D	P	N
244	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
245	D	E	M	D	P	E	M	D	D	E	M	D	D	E	N
248	D	E	M	D	D	E	M	D	P	E	M	D	D	E	N
250	D	D	P	E	M	D	P	E	M	D	P	E	M	D	N
251	P	E	M	D	P	E	M	D	P	E	M	D	P	E	N
252	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
254	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
256	M	D	P	E	M	D	P	E	M	D	D	D	D	D	PD
258	M	D	P	E	M	D	P	E	M	D	D	E	M	D	N
260	E	M	D	D	E	M	D	P	E	M	D	D	E	M	N
261	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
Total														30	
Normal														29	
Abnormal														1	
PD														1	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

II-Addendum 5-2. Estrus cycle - individual findings following the time course at 4 months

Vehicle control

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
101	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
102	E	M	D	D	D	P	E	M	D	D	P	E	M	D	N
104	D	D	E	M	D	P	E	M	D	D	P	E	M	D	N
105	E	M	D	D	E	M	D	D	E	M	D	P	E	M	N
107	E	M	D	D	E	M	D	D	E	M	D	P	E	M	N
109	E	M	D	P	P	E	M	D	P	E	M	D	P	E	N
110	P	E	M	D	D	E	M	D	D	E	M	D	D	E	N
111	D	D	E	M	D	D	E	M	D	D	E	M	D	P	N
112	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
114	D	E	M	D	D	E	M	D	P	E	M	D	D	E	N
115	D	D	P	E	M	D	P	E	M	D	D	E	M	D	N
117	E	M	D	D	E	M	D	D	E	M	D	P	E	M	N
118	D	E	M	D	D	E	M	D	D	D	E	M	D	D	N
120	D	P	E	M	D	D	E	M	D	P	E	M	D	D	N
121	D	P	E	M	D	D	E	M	D	D	E	M	D	P	N
123	D	D	E	M	D	D	D	D	E	M	D	D	D	E	N
124	P	E	M	D	D	E	M	D	P	E	M	D	P	E	N
125	D	D	E	M	D	D	D	D	E	M	D	P	E	M	N
127	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
128	D	D	E	M	D	D	E	M	D	D	E	M	D	P	N
129	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
131	M	D	P	E	M	D	D	E	M	D	D	D	E	M	N
133	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
134	D	D	E	M	D	P	E	M	D	D	E	M	D	P	N
137	D	P	E	M	D	D	E	M	D	P	E	M	D	P	N
138	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
139	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
142	E	M	D	D	E	M	D	D	E	M	D	P	E	M	N
143	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
145	D	P	E	M	D	P	E	M	D	P	E	M	D	D	N
146	D	P	E	M	D	P	E	M	D	P	E	M	D	P	N
Total														31	
Normal														31	
Abnormal														0	
PD														0	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

**II-Addendum 5-2. Estrus cycle - individual findings following the time course at 4 months
continued**

BPA 0.5 μ g/kg/day

Animal ID- No.	Days of observation														Classifications	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
147	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N	
149	E	M	D	D	P	E	M	D	D	P	E	M	D	D	N	
150	D	D	E	M	D	D	D	E	E	M	D	D	E	E	N	
151	E	M	D	D	D	D	E	M	D	D	P	E	M	D	N	
152	D	E	M	D	D	E	M	D	D	E	M	D	P	E	N	
154	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N	
155	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N	
157	M	D	D	E	M	D	D	D	E	M	D	D	D	E	N	
159	M	D	D	P	E	M	D	D	E	M	D	D	D	P	N	
160	E	M	D	D	P	E	M	D	D	P	E	M	D	P	N	
162	P	E	M	D	D	E	M	D	D	E	M	D	D	E	N	
164	D	D	D	D	E	M	D	D	E	E	M	D	D	D	N	
165	E	M	D	P	E	M	D	D	E	M	D	D	D	D	N	
166	E	M	D	E	E	M	D	D	E	M	D	P	E	M	N	
167	M	D	D	D	P	E	M	D	D	D	D	E	M	D	N	
170	P	P	P	P	P	P	P	P	P	P	P	P	P	P	CE	
171	M	D	E	M	D	P	M	D	D	D	P	M	D	D	N	
172	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N	
173	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N	
175	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N	
176	M	D	D	E	M	D	D	E	M	D	P	E	M	D	N	
177	P	E	M	D	D	E	M	D	D	E	M	D	D	E	N	
180	D	E	M	D	P	E	M	D	D	E	M	D	P	E	N	
															Total	23
															Normal	22
															Abnormal	1
															PD	0
															CD	0
															PE	0
															CE	1
															IE	0

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

II-Addendum 5-2. Estrus cycle - individual findings following the time course at 4 months
continued

BPA 5 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
181	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
182	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
184	D	D	E	M	D	D	D	D	E	M	D	D	D	E	N
185	D	D	P	E	M	D	D	E	M	D	D	E	M	D	N
189	M	D	D	E	M	D	D	E	M	D	P	E	M	D	N
190	D	D	E	M	D	D	E	M	D	P	E	M	D	P	N
191	D	P	E	M	D	D	E	M	D	P	E	M	D	P	N
193	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
194	D	P	E	M	D	D	P	E	M	D	D	P	E	M	N
195	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
198	D	D	D	D	D	D	D	D	D	D	D	D	D	D	CD
199	M	D	P	E	M	D	D	E	M	D	P	E	M	D	N
201	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
202	E	M	D	D	E	M	D	P	E	M	D	P	E	M	N
204	D	D	E	M	D	D	E	M	D	P	E	M	D	D	N
206	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
208	D	D	P	E	M	D	D	E	M	D	D	E	M	D	N
209	D	P	E	M	D	D	D	D	D	D	D	D	D	D	CD
210	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
212	E	M	D	D	E	M	D	P	E	M	D	P	E	M	N
213	D	E	M	D	P	E	M	D	D	E	M	D	P	E	N
214	P	E	M	D	D	E	M	D	D	E	M	D	D	E	N
Total														22	
Normal														20	
Abnormal														2	
PD														0	
CD														2	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

**II-Addendum 5-2. Estrus cycle - individual findings following the time course at 4 months
continued**

BPA 50 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
217	E	M	D	D	E	M	D	P	E	M	D	D	E	M	N
218	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
219	D	D	E	M	D	D	E	M	D	P	E	M	D	P	N
220	P	E	M	D	P	E	M	D	P	E	M	D	D	E	N
223	D	D	E	M	D	D	E	M	D	D	E	M	D	P	N
224	D	D	P	E	M	D	D	E	M	D	D	E	M	D	N
226	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
227	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
229	D	D	D	P	E	M	D	D	E	M	D	D	D	P	N
230	P	E	M	D	D	P	E	M	D	D	P	E	M	D	N
232	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
233	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
235	M	D	D	E	M	D	D	E	M	D	P	E	M	D	N
236	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
237	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
238	D	D	E	M	D	P	E	M	D	P	E	M	D	P	N
241	E	M	D	D	P	E	M	D	P	E	M	D	D	P	N
242	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
243	D	P	E	M	D	P	E	M	D	P	E	M	D	D	N
244	D	D	P	E	M	D	P	E	M	D	P	E	M	D	N
245	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
248	P	E	M	D	D	E	M	D	P	E	M	D	D	E	N
250	M	D	P	E	M	D	P	E	M	D	D	E	M	D	N
251	D	E	M	D	P	E	M	D	P	E	M	D	P	E	N
252	D	P	E	M	D	P	E	M	D	P	E	M	D	P	N
254	M	D	P	E	M	D	P	E	M	D	D	E	M	D	N
256	D	E	M	D	D	E	M	D	P	E	M	D	P	E	N
258	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
260	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
261	M	D	D	E	M	D	D	E	M	D	D	D	E	M	N
														Total	30
														Normal	30
														Abnormal	0
														PD	0
														CD	0
														PE	0
														CE	0
														IE	0

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

II-Addendum 5-3. Estrus cycle - individual findings following the time course at 5 months

Vehicle control

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
101	E	M	D	P	E	M	D	D	E	M	D	P	E	M	N
102	D	D	P	E	M	D	D	P	E	M	D	D	P	E	N
104	D	P	E	M	D	D	D	D	D	D	D	D	D	D	CD
105	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
107	D	D	D	D	E	M	D	D	P	E	M	D	D	P	N
109	D	D	D	D	D	D	D	D	D	D	D	D	D	D	CD
110	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
111	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
112	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
114	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
115	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
117	E	M	D	D	E	M	D	P	E	M	D	D	E	M	N
118	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
120	D	P	E	M	D	D	E	M	D	P	E	M	D	D	N
121	M	D	D	P	M	D	D	E	M	D	D	E	M	D	N
123	D	E	M	D	D	P	E	M	D	D	P	E	M	D	N
124	P	E	M	D	D	E	M	D	D	E	M	D	P	E	N
125	E	M	D	P	E	M	D	D	E	M	D	D	D	E	N
127	M	D	D	E	M	D	D	E	M	D	E	E	M	D	N
128	M	D	E	M	D	D	E	M	D	D	D	D	D	D	PD
129	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
131	M	D	P	E	M	D	D	D	E	M	D	D	D	E	N
133	D	P	E	M	D	D	E	M	D	P	E	M	D	D	N
134	M	D	E	M	D	P	E	M	D	P	E	M	D	D	N
137	D	P	E	M	D	P	E	M	D	P	E	M	D	P	N
138	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
139	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
142	E	M	D	D	E	M	D	D	E	M	D	P	E	M	N
143	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
145	E	M	D	D	E	M	D	D	D	E	M	D	D	P	N
146	D	D	E	M	D	P	E	M	D	P	E	M	D	P	N
														Total	31
														Normal	28
														Abnormal	3
														PD	1
														CD	2
														PE	0
														CE	0
														IE	0

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

**II-Addendum 5-3. Estrus cycle - individual findings following the time course at 5 months
continued**

BPA 0.5 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
147	D	E	M	D	D	D	E	E	M	D	D	E	M	D	N
149	D	P	E	M	D	D	P	M	D	D	P	D	D	D	N
150	E	M	D	P	E	M	D	D	D	E	E	M	D	D	N
151	M	D	D	P	E	M	D	D	D	E	M	D	D	E	N
152	D	P	M	D	P	M	D	D	D	D	D	D	D	D	PD
154	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
155	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
157	D	E	M	D	D	D	D	E	M	D	D	D	E	M	N
159	D	P	E	M	D	P	E	M	D	P	E	M	D	P	N
160	D	P	M	D	P	M	D	D	E	M	D	P	M	D	N
162	D	E	M	D	D	E	M	D	P	E	M	D	P	E	N
164	D	P	M	D	D	P	M	D	P	M	D	P	E	M	N
165	D	P	E	M	D	D	E	M	D	P	M	D	D	E	N
166	E	M	D	D	E	M	D	P	E	M	D	D	E	M	N
167	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
170	E	M	M	D	E	M	D	P	E	M	D	P	E	M	N
171	P	M	D	P	P	P	P	P	P	P	M	D	D	D	PE
172	D	D	D	D	D	D	D	D	D	D	D	D	D	D	CD
173	M	D	P	M	D	P	E	M	D	D	D	P	E	M	N
175	D	E	M	D	P	E	M	D	D	E	M	D	D	E	N
176	M	D	D	E	M	D	P	E	M	D	D	E	M	D	N
177	D	E	M	D	D	E	M	D	D	E	M	D	P	E	N
180	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
														Total	23
														Normal	20
														Abnormal	3
														PD	1
														CD	1
														PE	1
														CE	0
														IE	0

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

II-Addendum 5-3. Estrus cycle - individual findings following the time course at 5 months
continued

BPA 5 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
181	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
182	D	D	E	M	D	D	E	M	D	P	E	M	D	D	N
184	D	E	M	D	D	E	M	D	D	E	M	D	D	E	N
185	M	D	D	P	E	M	D	D	E	M	D	D	D	D	N
189	M	D	D	E	M	D	P	E	M	D	D	E	M	D	N
190	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
191	D	P	E	M	D	P	E	M	D	D	E	M	D	D	N
193	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
194	D	P	E	M	D	P	M	D	P	E	M	D	P	E	N
195	E	M	D	P	E	M	D	D	E	M	D	D	E	M	N
198	M	D	P	E	M	D	P	E	M	D	D	E	M	D	N
199	M	D	P	E	M	D	D	E	M	D	P	E	M	D	N
201	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
202	E	M	D	D	E	M	D	P	E	M	D	D	E	M	N
204	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
206	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
208	D	E	M	D	D	E	M	D	D	P	E	M	D	D	N
209	D	P	E	M	D	D	E	M	D	D	P	E	M	D	N
210	M	D	D	P	E	M	D	D	E	M	D	D	D	D	N
212	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
213	P	E	M	D	P	E	M	D	D	E	M	D	D	E	N
214	D	D	D	D	D	D	D	D	E	M	D	P	E	M	PD
Total														22	
Normal														21	
Abnormal														1	
PD														1	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

**II-Addendum 5-3. Estrus cycle - individual findings following the time course at 5 months
continued**

BPA 50 µg/kg/day

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
217	E	M	D	P	E	M	D	P	E	M	D	D	P	M	N
218	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
219	D	P	E	M	D	D	E	M	D	D	E	M	D	D	N
220	P	E	M	D	P	E	M	D	P	E	M	D	P	E	N
223	D	D	E	M	D	P	E	M	D	P	E	M	D	P	N
224	D	D	P	M	D	P	E	M	D	P	E	M	D	P	N
226	M	D	E	M	D	D	E	M	D	D	E	M	D	D	N
227	E	M	D	P	E	M	D	D	E	M	D	P	E	M	N
229	P	E	M	D	D	P	E	M	D	D	P	E	M	D	N
230	D	D	E	M	D	D	P	M	D	D	D	D	D	D	PD
232	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
233	D	E	M	D	P	E	M	D	D	E	M	D	P	E	N
235	M	D	P	E	M	D	P	E	M	D	D	E	M	D	N
236	D	D	P	E	M	D	P	E	M	D	D	E	M	D	N
237	E	M	D	P	E	M	D	P	E	M	D	P	E	M	N
238	M	D	E	M	D	P	E	M	D	D	E	M	D	P	N
241	P	E	E	M	D	D	D	E	M	D	D	D	E	M	N
242	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
243	E	M	D	P	E	M	D	D	P	E	M	D	D	D	N
244	D	D	P	E	M	D	P	E	M	D	P	E	M	D	N
245	D	P	E	M	D	D	E	E	M	D	D	P	E	M	N
248	D	E	M	D	P	E	M	D	D	E	M	D	D	E	N
250	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
251	P	E	M	D	P	E	M	D	P	E	M	D	D	E	N
252	D	P	E	M	D	P	E	M	D	P	E	M	D	D	N
254	M	D	P	E	M	D	P	E	M	D	P	E	M	D	N
256	P	E	M	D	P	E	M	D	P	E	M	D	P	E	N
258	M	D	D	E	M	D	D	E	M	D	D	E	M	D	N
260	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
261	M	D	D	P	E	M	D	D	P	E	M	D	D	P	N
Total														30	
Normal														29	
Abnormal														1	
PD														1	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

PD; persistent diestrus (prolonged diestrus periods lasting 5-9 days)

CD; constant diestrus (prolonged diestrus periods lasting 10 days or more)

PE; persistent estrus (prolonged estrus periods lasting 3-7 days)

CE; constant estrus (prolonged estrus periods lasting 8 days or more)

IE; irregular estrus cycle (unclassifiable)

II-Addendum 5-4. Estrus cycle - individual findings following the time course at 6 months

Vehicle control

Animal ID- No.	Days of observation														Classifications
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
101	E	M	D	P	E	M	D	D	E	M	D	D	E	M	N
102	E	M	D	D	P	E	M	D	D	E	E	M	D	D	N
104	E	M	D	D	E	M	D	P	E	M	D	D	E	M	N
105	D	D	E	M	D	P	E	M	D	E	M	E	M	P	N
107	D	P	E	M	D	P	E	M	D	P	M	D	P	M	N
109	D	P	M	D	P	M	D	D	P	P	M	D	D	P	N
110	P	E	M	D	D	E	M	D	D	E	M	D	P	E	N
111	D	P	M	D	P	E	M	D	P	M	D	E	M	D	N
112	D	E	M	D	D	E	M	D	D	D	P	E	M	D	N
114	D	E	E	M	D	D	D	P	E	M	D	D	E	M	N
115	D	D	P	E	M	D	P	E	M	D	D	E	M	D	N
117	E	M	D	P	E	M	D	D	E	M	D	P	E	M	N
118	D	D	E	M	D	P	E	M	D	D	E	M	D	D	N
120	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
121	M	D	D	E	M	D	D	E	M	D	P	E	M	D	N
123	D	P	E	M	D	P	M	D	P	E	M	D	P	M	N
124	P	E	M	D	P	E	M	D	P	E	M	D	P	E	N
125	E	M	D	E	M	D	D	P	M	D	D	P	M	D	N
127	M	D	P	E	M	D	D	E	M	D	D	E	M	D	N
128	M	D	P	E	M	D	P	M	D	P	E	M	D	D	N
129	E	M	D	D	E	M	D	D	E	M	D	D	E	M	N
131	D	D	D	P	E	M	D	D	D	E	M	D	D	E	N
133	D	P	E	M	D	D	E	M	D	D	E	M	D	P	N
134	D	D	E	M	D	D	E	M	D	D	E	M	D	D	N
137	D	D	E	M	D	P	E	M	D	P	E	M	D	D	N
138	E	M	D	D	E	M	D	D	D	E	M	D	D	D	N
139	M	D	P	E	M	D	D	E	M	D	P	E	M	D	N
142	E	M	D	P	E	M	D	P	E	M	D	D	E	M	N
143	E	M	D	P	E	M	D	D	E	M	D	D	E	M	N
145	M	D	D	E	M	D	D	D	P	E	M	D	D	P	N
146	D	P	E	M	D	P	E	M	D	P	E	M	D	P	N
Total														31	
Normal														31	
Abnormal														0	
PD														0	
CD														0	
PE														0	
CE														0	
IE														0	

D: diestrus, P: proestrus, E: estrus, M: metestrus

N; normal.

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IE; irregular estrus cycle (unclassifiable)