

Table 4-26 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	CM-Cho (%)						
		-7	15	28	42	56	75	83
1	1	1	1	1	1	3	1	1
	2	1	1	2	1	3	1	1
	3	1	4	4	1	2	1	1
	4	3	2	3	2	1	1	3
	5	1	1	1	2	0	1	3
	6	1	1	1	2	1	1	1
	Mean ±S.D.	1.3 0.8	1.7 1.2	2.0 1.3	1.5 0.5	1.7 1.2	1.0 0.0	1.7 1.0
2	7	1	0	1	2	0	1	1
	8	1	1	1	1	0	1	1
	9	2	2	1	1	0	1	0
	10	2	1	0	1	0	2	1
	11	2	0	1	1	1	1	1
	12	1	1	1	1	1	0	1
	Mean ±S.D.	1.5 0.5	0.8 0.8	0.8* 0.4	1.2 0.4	0.3* 0.5	1.0 0.6	0.8 0.4
3	13	2	1	0	0	1	1	0
	14	0	1	2	0	1	0	1
	15	2	2	1	1	2	2	2
	16	1	2	1	1	1	1	1
	17	2	1	1	1	2	2	2
	18	2	1	0	1	1	1	1
	Mean ±S.D.	1.5 0.8	1.3 0.5	0.8* 0.8	0.7* 0.5#	1.3 0.5##	1.2 0.8	1.2 0.8

Note) CM-Cho(%) : Chylomicron-Cholesterol ratio

* P<0.05 : Significantly different from group 1.

P<0.05 , ## P<0.01 : Significantly different from group 2.

Table 4-27 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	HDL-Cho (mg/dL)						
		-7	15	28	42	56	75	83
1	1	43	33	30	25	28	37	36
	2	28	33	33	29	18	37	34
	3	24	35	35	27	29	37	35
	4	24	27	25	26	29	28	24
	5	25	27	29	34	29	29	24
	6	48	45	38	40	36	35	31
	Mean ±S.D.	32.0 10.7	33.3 6.6	31.7 4.6	30.2 5.8	28.2 5.8	33.8 4.2	30.7 5.4
2	7	38	69	64	74	78	68	64
	8	29	94	97	71	83	85	63
	9	34	70	81	53	61	52	54
	10	38	74	81	69	95	70	68
	11	22	66	63	52	58	55	49
	12	22	78	81	86	83	72	67
	Mean ±S.D.	30.5 7.4	75.2** 10.1	77.8** 12.7	67.5** 13.0	76.3** 14.2	67.0** 12.1	60.8** 7.6
3	13	42	68	87	71	70	58	55
	14	26	63	64	78	68	60	44
	15	37	52	55	50	48	46	44
	16	24	48	57	59	53	49	43
	17	27	56	65	66	63	55	56
	18	25	62	70	59	67	58	56
	Mean ±S.D.	30.2 7.5	58.2** 7.5##	66.3** 11.5	63.8** 9.9	61.5** 9.0#	54.3** 5.6#	49.7** 6.6#

Note) HDL-Cho : High density lipoprotein-Cholesterol

** P<0.01 : Significantly different from group 1.

P<0.05 , ## P<0.01 : Significantly different from group 2.

Table 4-28 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	LDL-Cho (mg/dL)						
		-7	15	28	42	56	75	83
1	1	24	24	18	25	28	27	27
	2	27	26	32	33	43	27	29
	3	29	33	41	34	31	35	38
	4	23	25	23	23	25	24	22
	5	38	41	37	32	35	41	40
	6	46	66	55	46	58	65	62
	Mean ±S.D.	31.2 9.0	35.8 16.1	34.3 13.3	32.2 8.1	36.7 12.2	36.5 15.3	36.3 14.3
2	7	28	63	65	54	59	49	49
	8	34	85	77	58	34	41	36
	9	20	41	38	28	18	19	22
	10	29	45	43	56	42	42	41
	11	29	70	68	58	59	58	52
	12	30	81	76	66	68	60	64
	Mean ±S.D.	28.3 4.6	64.2** 18.2	61.2** 16.7	53.3** 13.1	46.7 18.8	44.8 14.9	44.0 14.5
3	13	33	60	60	41	46	48	43
	14	27	44	41	35	44	43	45
	15	32	36	46	37	36	37	31
	16	29	48	41	40	39	44	40
	17	27	50	60	55	38	46	42
	18	23	46	37	38	34	38	32
	Mean ±S.D.	28.5 3.7	47.3 7.9#	47.5* 10.1	41.0* 7.2#	39.5 4.6	42.7 4.4	38.8 5.9

Note) LDL-Cho : Low density lipoprotein-Cholesterol

* P<0.05 , ** P<0.01 : Significantly different from group 1.

P<0.05 : Significantly different from group 2.

Table 4-29 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	VLDL-Cho (mg/dL)						
		-7	15	28	42	56	75	83
1	1	3	4	3	3	7	2	3
	2	3	3	5	3	8	3	3
	3	3	4	4	3	8	4	6
	4	2	3	3	5	2	3	4
	5	3	5	3	5	8	7	4
	6	3	6	6	3	6	4	7
	Mean ±S.D.	2.8 0.4	4.2 1.2	4.0 1.3	3.7 1.0	6.5 2.3	3.8 1.7	4.5 1.6
2	7	2	6	5	4	7	5	5
	8	3	4	4	7	4	4	3
	9	2	5	2	4	4	5	3
	10	2	5	3	7	3	5	6
	11	3	4	3	5	8	4	4
	12	3	5	3	6	6	4	4
	Mean ±S.D.	2.5 0.5	4.8 0.8	3.3 1.0	5.5* 1.4	5.3 2.0	4.5 0.5	4.2 1.2
3	13	2	4	3	2	8	4	5
	14	3	5	3	5	6	4	6
	15	2	3	4	3	5	5	2
	16	4	4	3	3	5	6	4
	17	2	4	4	4	7	9	7
	18	3	3	2	4	3	4	5
	Mean ±S.D.	2.7 0.8	3.8 0.8#	3.2 0.8	3.5 1.0##	5.7 1.8	5.3 2.0	4.8 1.7

Note) VLDL-Cho : Very low density lipoprotein-Cholesterol

* P<0.05 : Significantly different from group 1.

P<0.05 , ## P<0.01 : Significantly different from group 2.

Table 4-30 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	CM-Cho (mg/dL)						
		-7	15	28	42	56	75	83
1	1	1	1	1	1	2	1	1
	2	1	1	1	1	2	1	1
	3	1	3	3	1	1	1	1
	4	2	1	2	1	1	1	2
	5	1	1	1	1	0	1	2
	6	1	1	1	2	1	1	1
	Mean ±S.D.	1.2 0.4	1.3 0.8	1.5 0.8	1.2 0.4	1.2 0.8	1.0 0.0	1.3 0.5
2	7	1	0	1	3	0	1	1
	8	1	2	2	1	0	1	1
	9	1	2	1	1	0	1	0
	10	1	1	0	1	0	2	1
	11	1	0	1	1	1	1	1
	12	1	2	2	2	2	0	1
	Mean ±S.D.	1.0 0.0	1.2 1.0	1.2 0.8	1.5 0.8	0.5 0.8	1.0 0.6	0.8* 0.4
3	13	2	1	0	0	1	1	0
	14	0	1	2	0	1	0	1
	15	1	2	1	1	2	2	2
	16	1	2	1	1	1	1	1
	17	1	1	1	1	2	2	2
	18	1	1	0	1	1	1	1
	Mean ±S.D.	1.0 0.6	1.3 0.5	0.8 0.8	0.7* 0.5#	1.3 0.5#	1.2 0.8	1.2 0.8

Note) CM-Cho : Chylomicron-Cholesterol

* P<0.05 : Significantly different from group 1.
P<0.05 : Significantly different from group 2.

Table 4-31 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	HDL-TGL (%)						
		-7	15	28	42	56	75	83
1	1	18	22	28	18	29	21	14
	2	21	14	23	12	22	19	13
	3	20	19	26	19	25	15	12
	4	18	15	18	17	21	20	24
	5	20	10	14	11	16	8	11
	6	22	24	11	13	26	11	19
	Mean ±S.D.	19.8 1.6	17.3 5.3	20.0 6.8	15.0 3.4	23.2 4.5	15.7 5.3	15.5 5.0
2	7	22	35	15	11	15	20	15
	8	13	19	18	11	12	17	18
	9	16	15	25	20	11	14	8
	10	24	20	18	15	16	16	12
	11	24	17	14	24	13	15	9
	12	30	32	18	9	11	18	13
	Mean ±S.D.	21.5 6.1	23.0 8.4	18.0 3.8	15.0 5.9	13.0** 2.1	16.7 2.2	12.5 3.7
3	13	26	31	22	18	11	21	17
	14	16	20	16	11	13	16	17
	15	16	12	20	10	13	9	10
	16	20	13	21	17	12	14	12
	17	20	15	20	16	7	7	7
	18	24	29	22	13	24	16	13
	Mean ±S.D.	20.3 4.1	20.0 8.2	20.2 2.2	14.2 3.3	13.3** 5.7	13.8 5.1	12.7 3.9

Note) HDL-TGL(%) : High density lipoprotein-Triglycerides ratio

** P<0.01 : Significantly different from group 1.
Not significantly different from group 2.

Table 4-32 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	LDL-TGL (%)						
		-7	15	28	42	56	75	83
1	1	33	16	17	20	22	24	21
	2	20	18	23	28	38	22	22
	3	39	28	30	27	25	21	20
	4	24	22	27	15	26	22	17
	5	35	12	26	22	11	10	25
	6	31	21	26	26	3	26	20
	Mean ±S.D.	30.3 7.1	19.5 5.5	24.8 4.4	23.0 5.0	20.8 12.3	20.8 5.6	20.8 2.6
2	7	33	21	31	32	28	21	20
	8	30	32	26	31	21	21	30
	9	20	28	32	21	16	28	17
	10	30	24	24	22	15	24	22
	11	30	20	30	18	16	23	19
	12	25	24	32	18	19	28	23
	Mean ±S.D.	28.0 4.7	24.8* 4.5	29.2* 3.4	23.7 6.3	19.2 4.9	24.2 3.2	21.8 4.5
3	13	28	22	28	18	19	23	20
	14	13	31	24	20	17	29	24
	15	29	20	31	17	27	19	32
	16	32	26	30	19	25	27	33
	17	21	27	29	25	26	21	23
	18	32	24	30	23	22	24	22
	Mean ±S.D.	25.8 7.5	25.0* 3.9	28.7* 2.5	20.3 3.1	22.7 4.0	23.8 3.7	25.7* 5.5

Note) LDL-TGL(%) : Low density lipoprotein-Triglycerides ratio

* P<0.05 : Significantly different from group 1.
Not significantly different from group 2.

Table 4-33 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	VLDL-TGL (%)						
		-7	15	28	42	56	75	83
1	1	42	53	45	59	41	49	57
	2	43	58	48	48	35	52	57
	3	33	38	37	47	39	57	60
	4	49	55	44	63	38	50	51
	5	39	64	52	61	64	79	59
	6	46	41	54	52	59	59	57
	Mean ±S.D.	42.0 5.6	51.5 10.1	46.7 6.1	55.0 6.9	46.0 12.3	57.7 11.2	56.8 3.1
2	7	39	34	39	47	48	54	55
	8	44	20	30	40	58	53	40
	9	60	23	30	45	57	46	68
	10	37	42	47	58	65	50	57
	11	35	49	34	54	55	39	44
	12	39	31	35	65	59	46	57
	Mean ±S.D.	42.3 9.2	33.2** 11.1	35.8** 6.4	51.5 9.2	57.0* 5.5	48.0* 5.5	53.5 10.1
3	13	43	34	41	57	62	49	58
	14	65	36	24	52	63	38	51
	15	50	45	39	66	54	59	51
	16	42	31	36	53	53	52	49
	17	53	28	36	51	40	48	51
	18	38	33	33	60	42	42	49
	Mean ±S.D.	48.5 9.8	34.5** 5.8	34.8** 6.0	56.5 5.8	52.3 9.7	48.0 7.4	51.5** 3.3

Note) VLDL-TGL(%): Very low density lipoprotein-Triglycerides ratio

* P<0.05 , ** P<0.01 : Significantly different from group 1.
Not significantly different from group 2.

Table 4-34 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	CM-TGL (%)						
		-7	15	28	42	56	75	83
1	1	7	9	10	3	8	6	8
	2	16	10	6	12	5	7	8
	3	8	15	7	7	11	7	8
	4	9	8	11	5	15	8	8
	5	6	14	8	6	9	3	5
	6	1	14	9	9	12	4	4
	Mean ±S.D.	7.8 4.9	11.7 3.0	8.5 1.9	7.0 3.2	10.0 3.5	5.8 1.9	6.8 1.8
2	7	6	10	15	10	9	5	10
	8	13	29	26	18	9	9	12
	9	4	34	13	14	16	12	7
	10	9	14	11	5	4	10	9
	11	11	14	22	4	16	23	28
	12	6	13	15	8	11	8	7
	Mean ±S.D.	8.2 3.4	19.0 9.9	17.0** 5.8	9.8 5.4	10.8 4.6	11.2* 6.2	12.2 8.0
3	13	3	13	9	7	8	7	5
	14	6	13	36	17	7	17	8
	15	5	23	10	7	6	13	7
	16	6	30	13	11	10	7	6
	17	6	30	15	8	27	24	19
	18	6	14	15	4	12	18	16
	Mean ±S.D.	5.3 1.2	20.5* 8.3	16.3 10.0	9.0 4.5	11.7 7.8	14.3* 6.7	10.2 5.8

Note) CM-TGL(%) : Chylomicron-Triglycerides ratio

* P<0.05 , ** P<0.01 : Significantly different from group 1.
Not significantly different from group 2.

Table 4-35 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	HDL-TGL (mg/dL)						
		-7	15	28	42	56	75	83
1	1	4	6	10	6	14	5	5
	2	4	5	9	5	4	6	5
	3	2	4	9	7	10	7	6
	4	3	3	4	4	6	4	6
	5	2	6	6	5	12	6	6
	6	5	9	6	3	10	5	8
	Mean ±S.D.	3.3 1.2	5.5 2.1	7.3 2.3	5.0 1.4	9.3 3.7	5.5 1.0	6.0 1.1
2	7	3	6	3	3	7	8	6
	8	3	6	8	5	5	7	4
	9	3	10	6	6	6	4	4
	10	4	6	7	5	6	6	4
	11	3	6	8	8	8	5	5
	12	6	8	7	5	4	5	4
	Mean ±S.D.	3.7 1.2	7.0 1.7	6.5 1.9	5.3 1.6	6.0* 1.4	5.8 1.5	4.5* 0.8
3	13	4	5	6	5	6	6	6
	14	5	8	8	7	7	6	6
	15	4	7	7	5	6	5	4
	16	4	3	8	6	6	4	4
	17	4	3	6	5	5	4	4
	18	4	6	6	5	10	5	6
	Mean ±S.D.	4.2 0.4	5.3 2.1	6.8 1.0	5.5 0.8	6.7 1.8	5.0 0.9	5.0 1.1

Note) HDL-TGL : High density lipoprotein-Triglycerides

* P<0.05 : Significantly different from group 1.
Not significantly different from group 2.

Table 4-36 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	LDL-TGL (mg/dL)						
		-7	15	28	42	56	75	83
1	1	7	5	6	6	11	6	7
	2	4	6	9	11	8	7	9
	3	4	5	11	10	10	9	9
	4	4	4	6	4	7	4	4
	5	4	7	12	11	8	8	12
	6	7	8	14	7	1	11	9
	Mean ±S.D.	5.0 1.5	5.8 1.5	9.7 3.3	8.2 2.9	7.5 3.5	7.5 2.4	8.3 2.7
2	7	4	4	7	9	14	8	7
	8	6	9	12	13	8	9	6
	9	4	18	8	7	8	8	9
	10	5	7	9	7	6	9	8
	11	4	7	18	6	10	8	11
	12	5	6	12	11	7	8	7
	Mean ±S.D.	4.7 0.8	8.5 4.9	11.0 4.0	8.8 2.7	8.8 2.9	8.3 0.5	8.0 1.8
3	13	4	4	7	5	10	7	7
	14	4	12	12	12	9	10	8
	15	7	11	11	9	12	11	12
	16	6	5	11	7	13	8	11
	17	4	6	9	7	19	10	12
	18	5	5	9	9	9	8	11
	Mean ±S.D.	5.0 1.3	7.2 3.4	9.8 1.8	8.2 2.4	12.0* 3.8	9.0 1.5	10.2 2.1#

Note) LDL-TGL : Low density lipoprotein-Triglycerides

* P<0.05 : Significantly different from group 1.

P<0.05 : Significantly different from group 2.

Table 4-37 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	VLDL-TGL (mg/dL)						
		-7	15	28	42	56	75	83
1	1	9	15	16	19	20	12	20
	2	8	19	19	19	7	18	22
	3	4	7	13	17	16	25	28
	4	8	11	9	16	11	9	12
	5	5	37	23	30	49	59	30
	6	10	16	28	14	23	24	25
	Mean	7.3	17.5	18.0	19.2	21.0	24.5	22.8
	±S.D.	2.3	10.4	6.9	5.6	14.9	18.1	6.5
2	7	5	6	8	14	24	21	20
	8	9	6	14	17	23	23	8
	9	12	15	8	14	29	13	35
	10	7	12	17	19	26	20	21
	11	5	18	20	17	35	13	25
	12	7	7	14	40	22	12	17
	Mean	7.5	10.7	13.5	20.2	26.5	17.0	21.0
	±S.D.	2.7	5.1	4.8	9.9	4.8	4.9	8.9
3	13	6	6	10	15	32	15	20
	14	22	14	12	32	33	14	17
	15	12	25	14	35	23	34	18
	16	8	7	13	19	28	16	17
	17	11	6	11	15	30	24	27
	18	6	7	10	23	17	13	24
	Mean	10.8	10.8	11.7*	23.2	27.2	19.3	20.5
	±S.D.	6.0	7.6	1.6	8.6	6.1	8.2	4.1

Note) VLDL-TGL : Very low density lipoprotein-Triglycerides

* P<0.05 : Significantly different from group 1.
Not significantly different from group 2.

Table 4-38 Blood chemistry in male microminipigs

Study No. SBL703-024

Group	Animal No.\Day	CM-TGL (mg/dL)						
		-7	15	28	42	56	75	83
1	1	1	3	4	1	4	2	3
	2	3	3	2	5	1	2	3
	3	1	3	3	3	5	3	4
	4	2	2	2	1	4	1	2
	5	1	8	4	3	7	2	2
	6	0	5	5	2	5	2	2
	Mean ±S.D.	1.3 1.0	4.0 2.2	3.3 1.2	2.5 1.5	4.3 2.0	2.0 0.6	2.7 0.8
2	7	1	2	3	3	4	2	4
	8	3	8	12	8	4	4	2
	9	1	22	3	4	8	3	4
	10	2	4	4	2	2	4	3
	11	2	5	13	1	10	8	16
	12	1	3	6	5	4	2	2
	Mean ±S.D.	1.7 0.8	7.3 7.5	6.8 4.5	3.8 2.5	5.3 3.0	3.8 2.2	5.2 5.4
3	13	0	2	2	2	4	2	2
	14	2	5	18	11	4	6	3
	15	1	13	4	4	3	8	3
	16	1	6	5	4	5	2	2
	17	1	7	4	2	20	12	10
	18	1	3	4	2	5	6	8
	Mean ±S.D.	1.0 0.6	6.0 3.9	6.2 5.9	4.2 3.5	6.8 6.5	6.0* 3.8	4.7 3.4

Note) CM-TGL : Chylomicron-Triglycerides

* P<0.05 : Significantly different from group 1.
Not significantly different from group 2.

Table 5 Necropsy in male microminipigs

Study No. SBL703-024

Findings	Group Animal No.	1						2						3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Heart																			
White striation, left coronary artery		-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-
Absence, left coronary artery		-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-
Epididymis																			
Cyst, head, left		P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Femur																			
Fracture, right		-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-

Notes) - : No abnormal changes P : Non-graded changes

Table 6-1

Organ weight in male microminipigs

Study No. SBL703-024

Group	Animal No.	Pituit. mg	Thyr. g	Adre.R g	Adre.L g	Adre.R&L g	Test.R g	Test.L g	Test.R&L g	Thymus g	Spleen g	Brain g	Heart g
1	1	133	2.03	0.60	0.62	1.22	26.6	34.1	60.7	34.1	46.8	66.4	65.1
	2	78	0.78	0.66	0.66	1.32	24.7	28.2	52.9	12.5	29.5	56.1	72.9
	3	92	1.07	0.60	0.54	1.14	22.4	26.4	48.8	18.0	25.8	55.0	62.2
	4	99	1.37	0.58	0.55	1.13	30.2	35.1	65.3	26.4	36.4	60.4	74.4
	5	100	2.32	0.66	0.65	1.31	16.3	23.5	39.8	20.2	59.9	58.5	85.7
	6	106	1.74	0.74	0.76	1.50	30.0	33.5	63.5	31.7	38.8	55.9	89.7
	Mean	101.3	1.552	0.640	0.630	1.270	25.03	30.13	55.17	23.82	39.53	58.72	75.00
±S.D.	18.2	0.586	0.059	0.081	0.139	5.24	4.76	9.84	8.36	12.39	4.25	10.93	
2	7	115	2.09	0.63	0.57	1.20	16.8	19.7	36.5	32.3	55.0	61.6	66.7
	8	146	2.25	0.57	0.69	1.26	26.3	28.9	55.2	35.7	31.8	108.6	78.9
	9	149	1.79	0.86	0.79	1.65	27.7	34.6	62.3	26.3	36.4	71.5	84.3
	10	145	1.62	0.80	0.77	1.57	18.6	22.4	41.0	42.2	38.2	61.9	81.2
	11	95	1.60	0.54	0.46	1.00	22.1	25.5	47.6	25.9	28.6	58.3	64.6
	12	116	1.48	0.63	0.61	1.24	41.3	41.1	82.4	29.6	39.0	59.7	75.8
	Mean	127.7*	1.805	0.672	0.648	1.320	25.47	28.70	54.17	32.00*	38.17	70.27	75.25
±S.D.	22.2	0.304	0.129	0.126	0.244	8.83	7.99	16.69	6.22	9.16	19.34	7.97	
3	13	102	2.03	0.42	0.60	1.02	30.0	23.6	53.6	21.0	32.8	83.6	71.3
	14	113	1.92	0.71	0.72	1.43	20.5	24.2	44.7	17.0	30.1	59.7	74.2
	15	136	1.76	0.67	0.68	1.35	21.9	25.8	47.7	31.7	37.7	65.2	79.5
	16	105	1.43	0.57	0.65	1.22	27.4	30.7	58.1	22.1	37.6	64.7	77.0
	17	73	1.69	0.65	0.70	1.35	23.8	27.9	51.7	52.6	36.4	64.3	89.1
	18	100	2.51	0.66	0.69	1.35	32.9	32.9	65.8	26.7	31.6	57.0	69.2
	Mean	104.8	1.890	0.613	0.673	1.287	26.08	27.52	53.60	28.52	34.37	65.75	76.72
±S.D.	20.4#	0.367	0.105	0.043	0.147	4.85	3.70	7.57	12.84	3.29	9.33	7.12	

Notes)

Pituit. : Pituitary
 Adre.L : Adrenal (Left)
 Test.L : Testis (Left)

Thyr. : Thyroid
 Adre.R&L : Adrenal (Right&Left)
 Test.R&L : Testis (Right&Left)

Adre.R : Adrenal (Right)
 Test.R : Testis (Right)

* P<0.05 : Significantly different from group 1.

P<0.05 : Significantly different from group 2.

Table 6-2 Organ weight in male microminipigs

Study No. SBL703-024

Group	Animal No.	Liver g	Kidn.R g	Kidn.L g	Kidn.R&L g	Epid.R g	Epid.L g	Epid.R&L g	Prost. g	Sem.V. g	Omentum g	Mes.adip. g
1	1	302.6	34.1	34.4	68.5	9.4	11.0	20.4	5.6	112.9	27.9	74.0
	2	220.0	26.8	27.5	54.3	9.3	9.2	18.5	5.8	57.7	11.1	36.2
	3	268.3	29.6	29.6	59.2	9.3	9.6	18.9	7.2	101.5	9.8	34.8
	4	205.5	33.2	34.8	68.0	10.8	11.9	22.7	5.8	85.7	15.7	44.0
	5	387.2	36.7	37.5	74.2	7.6	8.4	16.0	6.4	60.9	21.3	62.3
	6	342.4	44.0	47.7	91.7	11.8	11.9	23.7	8.0	99.9	32.8	111.6
	Mean	287.67	34.07	35.25	69.32	9.70	10.33	20.03	6.47	86.43	19.77	60.48
±S.D.	70.47	5.99	7.11	13.08	1.44	1.48	2.85	0.95	22.75	9.27	29.39	
2	7	460.1	40.9	39.8	80.7	8.6	8.6	17.2	4.5	87.1	82.7	217.5
	8	385.2	41.4	43.6	85.0	13.7	13.1	26.8	6.9	89.3	22.1	104.9
	9	416.6	51.5	55.4	106.9	10.7	11.7	22.4	9.5	111.5	40.0	104.4
	10	265.0	41.6	38.8	80.4	9.9	10.4	20.3	9.6	110.7	34.0	75.6
	11	228.4	31.0	29.9	60.9	10.1	10.3	20.4	8.1	43.6	16.0	55.1
	12	325.2	35.9	35.1	71.0	11.3	9.5	20.8	6.5	87.8	25.9	93.9
	Mean	346.75	40.38	40.43	80.82	10.72	10.60	21.32	7.52	88.33	36.78	108.57*
±S.D.	89.84	6.85	8.68	15.43	1.72	1.60	3.17	1.96	24.66	24.05	56.67	
3	13	358.4	38.8	39.8	78.6	10.0	9.0	19.0	4.7	118.4	54.9	181.7
	14	303.2	43.3	43.2	86.5	7.7	8.0	15.7	6.3	100.8	38.6	65.4
	15	372.9	45.8	42.5	88.3	9.9	10.9	20.8	6.8	69.9	22.0	81.5
	16	244.2	32.3	34.2	66.5	13.1	13.9	27.0	8.6	111.2	20.0	106.0
	17	342.6	46.2	47.2	93.4	11.8	13.3	25.1	10.3	139.8	55.5	151.6
	18	352.9	38.9	40.0	78.9	13.1	13.5	26.6	9.0	315.5	29.1	77.6
	Mean	329.03	40.88*	41.15	82.03*	10.93	11.43	22.37	7.62	142.60	36.68*	110.63*
±S.D.	47.76	5.30	4.34	9.50	2.12	2.52	4.58	2.05	87.76	15.75	46.34	

Notes) Kidn.R : Kidney (Right) Kidn.L : Kidney (Left) Kidn.R&L : Kidney (Right&Left)
Epid.R : Epididymis (Right) Epid.L : Epididymis (Left) Epid.R&L : Epididymis (Right&Left)
Prost. : Prostate Sem.V. : Seminal vesicle Omentum : Omentum
Mes.adip. : Mesenteric adipose tissue (including mesenteric lymph node)

* P<0.05 : Significantly different from group 1.
Not significantly different from group 2.

Table 6-3

Relative organ weight in male microminipigs

Study No. SBL703-024

Group	Animal No.	B.W. kg	Pituit. mg/kg	Thyr. g/kg	Adre.R g/kg	Adre.L g/kg	Adre.R&L g/kg	Test.R g/kg	Test.L g/kg	Test.R&L g/kg	Thymus g/kg	Spleen g/kg	Brain g/kg	Heart g/kg
1	1	(16.4)	8.1	0.124	0.037	0.038	0.074	1.62	2.08	3.70	2.08	2.85	4.05	3.97
	2	(13.0)	6.0	0.060	0.051	0.051	0.102	1.90	2.17	4.07	0.96	2.27	4.32	5.61
	3	(11.2)	8.2	0.096	0.054	0.048	0.102	2.00	2.36	4.36	1.61	2.30	4.91	5.55
	4	(14.4)	6.9	0.095	0.040	0.038	0.078	2.10	2.44	4.53	1.83	2.53	4.19	5.17
	5	(15.7)	6.4	0.148	0.042	0.041	0.083	1.04	1.50	2.54	1.29	3.82	3.73	5.46
	6	(18.8)	5.6	0.093	0.039	0.040	0.080	1.60	1.78	3.38	1.69	2.06	2.97	4.77
	Mean	(14.92)	6.87	0.1027	0.0438	0.0427	0.0865	1.710	2.055	3.763	1.577	2.638	4.028	5.088
±S.D.	(2.67)	1.08	0.0301	0.0070	0.0055	0.0124	0.385	0.357	0.733	0.398	0.638	0.648	0.630	
2	7	(20.5)	5.6	0.102	0.031	0.028	0.059	0.82	0.96	1.78	1.58	2.68	3.00	3.25
	8	(19.2)	7.6	0.117	0.030	0.036	0.066	1.37	1.51	2.88	1.86	1.66	5.66	4.11
	9	(22.0)	6.8	0.081	0.039	0.036	0.075	1.26	1.57	2.83	1.20	1.65	3.25	3.83
	10	(17.7)	8.2	0.092	0.045	0.044	0.089	1.05	1.27	2.32	2.38	2.16	3.50	4.59
	11	(12.3)	7.7	0.130	0.044	0.037	0.081	1.80	2.07	3.87	2.11	2.33	4.74	5.25
	12	(16.3)	7.1	0.091	0.039	0.037	0.076	2.53	2.52	5.06	1.82	2.39	3.66	4.65
	Mean	(18.00)	7.17	0.1022	0.0380	0.0363*	0.0743*	1.472	1.650	3.123	1.825	2.145	3.968	4.280*
±S.D.	(3.44)	0.91	0.0183	0.0063	0.0051	0.0107	0.614	0.562	1.175	0.410	0.415	1.022	0.702	
3	13	(19.0)	5.4	0.107	0.022	0.032	0.054	1.58	1.24	2.82	1.11	1.73	4.40	3.75
	14	(15.6)	7.2	0.123	0.046	0.046	0.092	1.31	1.55	2.87	1.09	1.93	3.83	4.76
	15	(18.4)	7.4	0.096	0.036	0.037	0.073	1.19	1.40	2.59	1.72	2.05	3.54	4.32
	16	(17.8)	5.9	0.080	0.032	0.037	0.069	1.54	1.72	3.26	1.24	2.11	3.63	4.33
	17	(20.3)	3.6	0.083	0.032	0.034	0.067	1.17	1.37	2.55	2.59	1.79	3.17	4.39
	18	(15.5)	6.5	0.162	0.043	0.045	0.087	2.12	2.12	4.25	1.72	2.04	3.68	4.46
	Mean	(17.77)	6.00	0.1085	0.0352*	0.0385	0.0737	1.485	1.567*	3.057	1.578	1.942*	3.708	4.335*
±S.D.	(1.91)	1.40	0.0306	0.0086	0.0058	0.0139	0.356	0.317	0.637	0.572	0.153	0.405	0.329	

Notes)

Pituit. : Pituitary
 Adre.L : Adrenal (Left)
 Test.L : Testis (Left)

Thyr. : Thyroid
 Adre.R&L : Adrenal (Right&Left)
 Test.R&L : Testis (Right&Left)

Adre.R : Adrenal (Right)
 Test.R : Testis (Right)

* P<0.05 : Significantly different from group 1.
 Not significantly different from group 2.

Table 6-4

Relative organ weight in male microminipigs

Study No. SBL703-024

Group	Animal No.	Liver g/kg	Kidn.R g/kg	Kidn.L g/kg	Kidn.R&L g/kg	Epid.R g/kg	Epid.L g/kg	Epid.R&L g/kg	Prost. g/kg	Sem.V. g/kg	Omentum g/kg	Mes.adip. g/kg
1	1	18.45	2.08	2.10	4.18	0.57	0.67	1.24	0.34	6.9	1.7	4.5
	2	16.92	2.06	2.12	4.18	0.72	0.71	1.42	0.45	4.4	0.9	2.8
	3	23.96	2.64	2.64	5.29	0.83	0.86	1.69	0.64	9.1	0.9	3.1
	4	14.27	2.31	2.42	4.72	0.75	0.83	1.58	0.40	6.0	1.1	3.1
	5	24.66	2.34	2.39	4.73	0.48	0.54	1.02	0.41	3.9	1.4	4.0
	6	18.21	2.34	2.54	4.88	0.63	0.63	1.26	0.43	5.3	1.7	5.9
	Mean	19.412	2.295	2.368	4.663	0.663	0.707	1.368	0.445	5.93	1.28	3.90
±S.D.	4.080	0.212	0.219	0.428	0.128	0.121	0.245	0.103	1.89	0.37	1.17	
2	7	22.44	2.00	1.94	3.94	0.42	0.42	0.84	0.22	4.2	4.0	10.6
	8	20.06	2.16	2.27	4.43	0.71	0.68	1.40	0.36	4.7	1.2	5.5
	9	18.94	2.34	2.52	4.86	0.49	0.53	1.02	0.43	5.1	1.8	4.7
	10	14.97	2.35	2.19	4.54	0.56	0.59	1.15	0.54	6.3	1.9	4.3
	11	18.57	2.52	2.43	4.95	0.82	0.84	1.66	0.66	3.5	1.3	4.5
	12	19.95	2.20	2.15	4.36	0.69	0.58	1.28	0.40	5.4	1.6	5.8
	Mean	19.155	2.262	2.250	4.513	0.615	0.607	1.225	0.435	4.87	1.97	5.90*
±S.D.	2.455	0.181	0.208	0.366	0.151	0.143	0.289	0.151	0.97	1.03	2.38	
3	13	18.86	2.04	2.09	4.14	0.53	0.47	1.00	0.25	6.2	2.9	9.6
	14	19.44	2.78	2.77	5.54	0.49	0.51	1.01	0.40	6.5	2.5	4.2
	15	20.27	2.49	2.31	4.80	0.54	0.59	1.13	0.37	3.8	1.2	4.4
	16	13.72	1.81	1.92	3.74	0.74	0.78	1.52	0.48	6.2	1.1	6.0
	17	16.88	2.28	2.33	4.60	0.58	0.66	1.24	0.51	6.9	2.7	7.5
	18	22.77	2.51	2.58	5.09	0.85	0.87	1.72	0.58	20.4	1.9	5.0
	Mean	18.657	2.318	2.333	4.652	0.622	0.647	1.270	0.432	8.33	2.05*	6.12*
±S.D.	3.089	0.351	0.311	0.648	0.142	0.156	0.292	0.117	6.01	0.77	2.09	

Notes) Kidn.R : Kidney (Right) Kidn.L : Kidney (Left) Kidn.R&L : Kidney (Right&Left)
Epid.R : Epididymis (Right) Epid.L : Epididymis (Left) Epid.R&L : Epididymis (Right&Left)
Prost. : Prostate Sem.V. : Seminal vesicle
Mes.adip. : Mesenteric adipose tissue (including mesenteric lymph node) Omentum : Omentum

* P<0.05 : Significantly different from group 1.
Not significantly different from group 2.

3. マイクロミニピッグ動脈硬化モデルにおける睡眠障害負荷の影響

Table 1-1 Clinical signs in male microminipigs

Study No. SBL703-030

Group	Animal No.	Sign code	Time	Day of dosing																			
				1			2			3			4			5			6				
				0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
1	1			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	2			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	3			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	4			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	5			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	6			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	7			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	8			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	9			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	10			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3	11	cG		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		mP		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		oU		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		oV		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
				-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
				-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
				-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes) - : No abnormal signs + : Non-graded signs 1 : Slight 2 : Moderate 3 : Severe
 cG:Lateral position mP:Abnormal eye oU:Hemorrhage
 oV:Decreased appetite