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V 參考資料

1. 長期高脂肪食によるマイクロミニピッグ脳梗塞・心筋梗塞モデルの開発

Table 1-1 Clinical signs in male microminipigs

Study No. SBL703-023

		Day of dosing																			
Group	Animal No.	Sign code	Time	1			2			3			4			5			6		
				0123456	7890123	4567890	1234567	8901234	5678901	2345678	9012345	6789012	3456789								
1	1			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	5			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	16			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	17			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	6			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	7			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	8			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	9			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	10			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3	11			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	12			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	13			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	14			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	15			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes) - : No abnormal signs + : Non-graded signs 1 : Slight 2 : Moderate 3 : Severe

Table 1-2 Clinical signs in male microminipigs

Study No. SBL703-023

Group	Animal No.	Sign code	Time	Day of dosing																			
				7			8			9			10			11			12			13	
				0123456	7890123	4567890	1234567	8901234	5678901	2345678	9012345	6789012	3456789										
1	1			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	5			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	16			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	17			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
2	6			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	7			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	8			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	9			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	10			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
3	11			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	12			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	13			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	14			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										
	15			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----										

Notes) - : No abnormal signs + : Non-graded signs 1 : Slight 2 : Moderate 3 : Severe

Table 1-3 Clinical signs in male microminipigs

Study No. SBL703-023

Group	Animal No.	Sign code	Time	Day of dosing																		
				1	5			6			7			8			9			2		
				4	0123456	7890123	4567890	1234567	8901234	5678901	2345678	9012345	6789012	3456789								
1	1			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	5			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	16			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	17			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
2	6			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	7			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	8			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	9			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	10			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
3	11			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	12			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	13			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	14			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	15			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		

Notes) - : No abnormal signs + : Non-graded signs 1 : Slight 2 : Moderate 3 : Severe

Table 1-4 Clinical signs in male microminipigs

Study No. SBL703-023

Group	Animal No.	Sign code	Time	Day of dosing																			
				2		3		4		5		6		7									
				1	2	1	2	1	2	1	2	1	2	1	2								
				0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
1	1			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	5			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	16			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	17			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	6			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	7			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	8			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	9			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	10			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3	11			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	12			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	13			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	14			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	15			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes) - : No abnormal signs + : Non-graded signs 1 : Slight 2 : Moderate 3 : Severe

Table 1-5

Clinical signs in male microminipigs

Study No. SBL703-023

Group	Animal No.	Sign code	Time	Day of dosing									No. of days				
				2 8	9	3 0	1	2	3	6	7	+	1	2	3		
1	1			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	5			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	16			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	17			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
2	6			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	7			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	8			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	9			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	10			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
3	11			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	12			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	13			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	14			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	15			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			

Notes) - : No abnormal signs + : Non-graded signs 1 : Slight 2 : Moderate 3 : Severe

Table 2-1

Body weight (kg) in male microminipigs

Study No. SBL703-023

Group	Animal No.	Prè	1w	2w	3w	4w	5w	6w	7w	8w	9w	10w	11w	12w	13w
1	1	7.4	7.5	8.0	8.5	9.2	9.6	10.1	10.9	11.6	11.9	12.6	13.2	14.2	15.2
	5	4.2	4.2	4.3	4.6	4.8	5.0	5.3	5.7	6.0	6.4	6.7	7.0	7.4	7.4
	16	11.2	11.7	13.1	12.7	13.3	13.6	14.1	15.0	15.7	15.6	16.5	17.3	17.4	19.0
	17	10.7	10.9	11.8	11.5	11.9	11.9	12.5	12.8	13.1	13.0	13.4	13.7	14.3	14.6
	Mean ±S.D.	8.38 3.25	8.58 3.44	9.30 3.97	9.33 3.61	9.80 3.74	10.03 3.73	10.50 3.84	11.10 3.97	11.60 4.10	11.73 3.87	12.30 4.09	12.80 4.28	13.33 4.22	14.05 4.84
2	6	6.3	6.4	6.9	7.4	8.0	8.6	9.3	9.9	10.5	11.4	12.3	13.1	14.1	15.1
	7	4.5	4.5	4.7	5.0	5.2	5.5	5.8	6.1	6.4	6.9	7.4	7.7	8.1	8.7
	8	3.9	3.9	4.0	4.1	4.4	4.4	4.7	4.8	4.9	5.1	5.3	5.5	5.8	6.1
	9	3.9	3.8	3.9	4.1	4.2	4.4	4.4	4.8	5.2	5.3	5.7	6.0	6.3	6.7
	10	5.0	5.0	5.2	5.5	5.9	6.2	6.5	7.0	7.4	7.9	8.4	9.1	9.7	10.3
Mean ±S.D.	4.72 1.00	4.72 1.06	4.94 1.22	5.22 1.36	5.54* 1.53	5.82* 1.73	6.22* 1.88	6.60* 2.03	6.90* 2.24	7.40* 2.48	7.88* 2.75	8.34 2.99	8.88 3.27	9.46 3.53	
3	11	4.5	4.4	4.7	5.0	5.4	5.6	5.9	6.1	6.5	7.0	7.4	7.9	8.4	8.9
	12	4.2	4.2	4.5	4.7	4.9	5.2	5.0	5.3	5.5	5.7	6.0	6.4	6.7	7.2
	13	3.5	3.5	3.7	3.8	4.1	4.3	4.5	4.8	5.0	5.3	5.6	5.9	6.3	6.8
	14	4.5	4.4	4.6	4.8	5.0	5.3	5.7	5.9	6.4	6.6	6.9	7.3	7.7	8.2
	15	6.3	6.3	6.9	7.5	8.3	9.0	9.7	9.9	11.0	12.0	13.1	14.0	14.7	15.9
Mean ±S.D.	4.60* 1.03	4.56* 1.04	4.88 1.20	5.16 1.39	5.54* 1.61	5.88* 1.81	6.16* 2.06	6.40* 2.02	6.88* 2.39	7.32* 2.70	7.80* 3.05	8.30 3.28	8.76 3.42	9.40 3.73	

* P<0.05 : Significantly different from Group 1.

Table 2-2

Body weight (kg) in male microminipigs

Study No. SBL703-023

Group	Animal No.	14w	15w	16w	17w	18w	19w	20w	21w	22w	23w	24w	25w	26w	27w
1	1	15.7	16.3	17.0	17.5	18.0	18.5	19.0	19.6	20.4	21.7	22.8	23.9	23.6	23.9
	5	7.7	7.9	8.0	8.2	8.6	8.8	9.2	9.5	10.0	10.3	10.5	10.5	10.5	10.5
	16	18.9	19.8	20.9	20.7	20.8	21.1	21.5	22.1	22.6	22.4	22.2	22.5	22.2	23.1
	17	15.1	15.6	16.0	16.6	16.4	16.8	17.3	17.8	18.3	18.5	18.9	19.2	18.9	19.9
	Mean ±S.D.	14.35 4.74	14.90 5.02	15.48 5.41	15.75 5.33	15.95 5.23	16.30 5.30	16.75 5.32	17.25 5.46	17.83 5.50	18.23 5.55	18.60 5.67	19.03 6.02	18.80 5.87	19.35 6.15
2	6	16.1	16.7	17.2	18.1	18.7	20.0	21.1	21.7	22.7	23.6	25.1	26.6	26.8	28.0
	7	9.0	9.6	9.7	10.0	10.8	11.5	11.8	12.4	13.3	13.7	14.7	15.6	15.7	16.2
	8	6.4	6.4	6.5	6.7	6.8	6.9	7.2	7.2	7.5	7.7	8.0	8.3	8.3	8.4
	9	7.6	7.7	8.1	8.6	8.9	9.3	9.2	9.8	10.1	10.7	11.1	11.7	11.8	12.2
	10	10.8	11.1	11.7	12.1	12.7	13.3	13.0	14.8	15.4	16.2	17.1	18.1	18.4	19.2
Mean ±S.D.	9.98 3.79	10.30 4.00	10.64 4.14	11.10 4.38	11.58 4.54	12.20 4.98	12.46 5.33	13.18 5.55	13.80 5.82	14.38 6.06	15.20 6.53	16.06 6.98	16.20 7.06	16.80 7.47	
3	11	9.4	9.7	10.1	10.6	11.1	11.7	12.5	13.3	13.9	14.7	15.7	16.4	16.7	17.2
	12	7.8	8.2	8.5	9.0	9.5	9.9	10.6	12.2	11.9	12.5	13.3	13.6	14.1	14.1
	13	7.2	7.5	7.7	8.1	8.4	8.8	9.4	9.6	10.4	11.0	11.7	12.2	12.2	12.7
	14	8.7	8.7	9.1	9.7	9.8	10.3	10.5	10.9	11.3	11.7	12.1	12.8	13.0	13.1
	15	17.2	17.9	18.3	19.2	20.0	21.5	22.2	23.3	24.1	24.3	24.7	25.7	25.4	25.5
Mean ±S.D.	10.06 4.08	10.40 4.27	10.74 4.32	11.32 4.50	11.76 4.71	12.44 5.17	13.04 5.24	13.86 5.46	14.32 5.62	14.84 5.47	15.50 5.37	16.14 5.58	16.28 5.37	16.52 5.32	

Not significantly different from Group 1.

Table 2-3 Body weight (kg) in male microminipigs

Study No. SBL703-023

Group	Animal No.	28w	29w	30w	31w	32w	33w	34w	35w	36w	37w	38w	39w	40w	41w
1	1	23.0	23.8	23.9	24.1	24.2	24.4	24.8	25.2	25.8	26.3	26.6	26.8	27.0	27.1
	5	10.6	10.9	11.0	10.9	11.1	11.3	11.3	11.0	11.2	11.4	11.7	11.5	11.4	11.3
	16	23.1	23.6	23.7	23.9	23.6	23.6	24.1	24.0	24.1	24.3	24.4	24.6	24.4	24.8
	17	20.6	20.6	20.9	21.3	21.8	22.3	22.4	22.7	22.9	23.2	23.0	23.2	23.4	24.2
	Mean ±S.D.	19.33 5.93	19.73 6.06	19.88 6.07	20.05 6.23	20.18 6.14	20.40 6.13	20.65 6.31	20.73 6.56	21.00 6.64	21.30 6.72	21.43 6.65	21.53 6.85	21.55 6.93	21.85 7.14
2	6	28.6	29.3	29.8	30.7	30.3	31.7	32.0	31.7	33.3	34.2	34.5	35.3	35.6	35.6
	7	16.6	17.8	18.2	18.6	19.2	19.7	20.1	21.0	21.6	21.9	22.5	23.1	23.7	23.9
	8	8.1	8.3	7.9	7.9	7.6	7.3	7.2	6.9	6.9	6.9	6.8	6.7	6.6	6.3
	9	12.5	13.0	13.6	13.9	14.6	14.7	15.0	15.4	16.2	16.4	17.0	17.7	18.3	18.3
	10	19.7	20.3	21.0	21.9	22.7	22.8	23.2	23.2	23.8	23.8	24.2	25.2	25.7	26.0
Mean ±S.D.	17.10 7.77	17.74 7.93	18.10 8.21	18.60 8.57	18.88 8.52	19.24 9.10	19.50 9.24	19.64 9.22	20.36 9.74	20.64 10.03	21.00 10.15	21.60 10.49	21.98 10.63	22.02 10.78	
3	11	17.8	18.2	19.0	19.5	20.4	20.8	20.9	21.1	21.8	22.0	22.5	22.9	23.4	23.3
	12	15.0	15.1	15.6	17.3	17.4	17.2	17.3	17.5	18.3	18.8	19.6	20.4	21.2	21.7
	13	13.0	13.4	14.0	14.5	15.1	15.6	16.2	16.4	17.1	17.9	18.4	19.4	20.0	19.9
	14	13.1	13.6	13.9	14.6	14.6	15.2	15.6	15.8	16.4	16.7	17.1	17.8	18.1	18.2
	15	25.5	26.0	25.9	25.8	25.6	25.3	25.1	25.2	25.6	25.7	25.8	26.1	26.6	26.7
Mean ±S.D.	16.88 5.20	17.26 5.25	17.68 5.04	18.34 4.66	18.62 4.53	18.82 4.24	19.02 3.97	19.20 3.93	19.84 3.83	20.22 3.64	20.68 3.49	21.32 3.25	21.86 3.27	21.96 3.27	

Not significantly different from Group 1.

Table 2-4 Body weight (kg) in male microminipigs

Study No. SBL703-023

Group	Animal No.	42w	43w	44w	45w	46w	47w	48w	49w
1	1	27.3	27.8	28.1	28.4	28.6	29.3	29.4	29.0
	5	11.4	11.5	11.0	10.9	11.2	11.0	10.9	10.8
	16	24.8	24.8	24.5	24.4	24.6	24.6	24.4	24.6
	17	24.2	24.4	25.0	25.0	25.2	25.4	25.3	25.3
	Mean	21.93	22.13	22.15	22.18	22.40	22.58	22.50	22.43
	±S.D.	7.14	7.24	7.60	7.72	7.67	7.99	8.03	7.99
2	6	36.4	36.8	37.3	37.1	36.6	36.2	35.5	38.9
	7	24.7	25.5	26.3	26.1	27.1	27.9	28.3	29.4
	8	6.5	6.5	6.4	6.1	6.1	6.0		
	9	19.4	19.8	19.6	19.8	20.9	21.1	20.5	21.5
	10	26.8	27.1	27.7	27.8	28.9	29.4	28.4	30.5
	Mean	22.76	23.14	23.46	23.38	23.92	24.12	28.18	30.08
	±S.D.	10.98	11.13	11.44	11.47	11.43	11.46	6.13	7.12
3	11	24.2	24.9	25.0	24.9	25.6	26.0	26.5	26.4
	12	22.3	22.6	22.2	22.4	23.3	23.6	24.2	25.3
	13	21.5	22.1	22.9	22.8	23.4	23.8	24.2	24.7
	14	19.1	19.3	20.0	20.1	20.0	20.3	20.6	20.8
	15	27.0	28.0	28.9	29.0	28.7	29.0	28.7	29.6
	Mean	22.82	23.38	23.80	23.84	24.20	24.54	24.84	25.36
	±S.D.	2.97	3.26	3.36	3.35	3.21	3.22	3.02	3.17

Not significantly different from Group 1.

Table 5-1

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	RBC (10 ⁶ /μL)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	9.48	9.41	8.97	9.59	9.57	9.58	10.28	9.02	9.47	10.65	10.41	8.85	9.04	8.64
	5	8.54	8.02	7.91	7.57	8.08	8.22	8.46	8.64	7.89	8.38	8.68	8.55	8.64	8.09
	16	6.36	7.15	7.33	7.15	8.02	8.47	8.22	7.87	8.65	8.66	8.80	8.58	8.14	8.05
	17	7.95	8.35	7.90	8.22	8.18	7.43	8.10	6.85	8.21	7.93	8.08	7.72	7.68	7.28
	Mean ±S.D.	8.083 1.310	8.233 0.934	8.028 0.684	8.133 1.067	8.463 0.741	8.425 0.888	8.765 1.021	8.095 0.958	8.555 0.685	8.905 1.202	8.993 0.996	8.425 0.489	8.375 0.592	8.015 0.559
2	6	9.38	9.58	9.18	10.72	10.00	10.59	11.13	10.91	10.83	10.44	10.12	10.04	9.87	10.48
	7	7.11	7.37	6.39	7.22	7.92	8.36	7.91	7.16	7.42	7.81	8.25	7.91	7.82	7.91
	8	7.44	6.98	6.32	7.01	7.39	6.85	7.91	7.78	7.32	7.71	7.03	7.17	4.63	
	9	9.81	9.03	8.25	8.67	9.26	9.51	9.04	9.57	9.66	9.64	8.71	9.13	9.48	9.61
	10	9.76	9.21	9.00	8.82	8.82	9.08	8.81	8.92	9.25	9.22	9.39	8.91	9.15	9.00
Mean ±S.D.	8.700 1.317	8.434 1.174	7.828 1.389	8.488 1.493	8.678 1.042	8.878 1.392	8.960 1.317	8.868 1.480	8.896 1.509	8.964 1.184	8.700 1.171	8.632 1.114	8.190 2.134	9.250* 1.080	
3	11	8.31	8.11	7.15	7.68	8.30	9.16	8.57	8.85	9.08	8.88	8.99	9.70	9.11	9.62
	12	8.44	7.89	8.57	8.53	8.32	9.30	8.71	8.45	9.03	9.51	9.36	9.07	8.55	8.55
	13	8.32	7.73	7.06	7.45	7.51	8.32	7.96	8.16	7.72	8.39	8.97	8.34	8.29	8.73
	14	8.50	7.23	7.54	7.34	7.69	8.32	8.64	8.79	8.69	8.86	9.22	8.62	8.68	8.94
	15	8.83	7.86	7.26	7.72	8.12	8.30	8.00	8.68	8.75	8.10	8.66	8.01	7.78	7.92
Mean ±S.D.	8.480 0.212	7.764 0.328	7.516 0.616	7.744 0.467	7.988 0.368	8.680 0.505	8.376 0.365	8.586 0.283	8.654 0.549	8.748 0.538	9.040 0.268	8.748 0.659	8.482 0.492	8.752 0.617	

Note) RBC : Erythrocyte count

* P<0.05 : Significantly different from Group 1.

Table 5-2

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	Hb (g/dL)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	14.5	15.0	14.6	16.0	16.1	16.2	18.2	15.7	17.0	19.2	18.1	15.5	15.9	15.7
	5	14.2	14.4	14.7	15.3	16.6	17.4	18.1	19.6	17.2	18.2	17.9	17.9	17.9	17.1
	16	12.6	14.9	15.5	15.1	16.8	17.8	17.4	17.0	18.6	19.0	19.6	18.9	18.2	18.4
	17	15.9	17.0	16.3	17.4	17.5	15.9	17.7	15.1	18.2	17.7	18.2	17.4	17.8	17.2
	Mean ±S.D.	14.30 1.35	15.33 1.15	15.28 0.79	15.95 1.04	16.75 0.58	16.83 0.92	17.85 0.37	16.85 2.00	17.75 0.77	18.53 0.70	18.45 0.78	17.43 1.43	17.45 1.05	17.10 1.10
2	6	15.4	15.6	15.2	17.6	16.7	17.9	19.2	19.3	19.9	19.8	19.1	18.9	18.9	20.3
	7	13.7	14.6	12.8	14.6	15.8	17.5	16.6	14.9	15.9	17.3	18.1	17.2	17.3	17.6
	8	12.9	12.2	11.9	13.0	14.2	13.8	16.1	15.9	14.8	15.5	14.0	14.1	9.0	
	9	15.7	14.8	14.8	16.3	18.1	18.9	18.2	18.7	18.9	19.7	17.9	18.7	19.5	20.1
	10	16.3	16.0	16.2	16.3	16.6	17.6	17.3	17.3	17.3	18.1	18.5	19.3	18.1	19.2
	Mean ±S.D.	14.80 1.44	14.64 1.48	14.18 1.78	15.56 1.78	16.28 1.43	17.14 1.95	17.48 1.24	17.22 1.85	17.52 2.12	18.16 1.80	17.68 2.15	17.40 1.96	16.78 4.43	19.28* 1.23
3	11	14.8	14.7	13.5	14.1	15.3	17.5	16.1	16.7	17.5	17.6	18.0	19.4	18.7	20.5
	12	14.9	14.5	16.3	16.1	16.4	18.6	17.4	17.0	18.6	19.7	19.6	19.4	18.5	18.8
	13	15.1	14.2	13.4	14.9	15.8	18.0	17.1	17.7	16.6	18.2	19.8	18.1	18.8	19.9
	14	15.0	13.5	15.1	14.7	15.8	17.7	18.2	18.7	18.7	19.2	19.8	19.1	19.5	19.9
	15	15.6	14.4	14.1	15.2	16.1	16.9	16.5	18.0	18.1	17.4	18.6	17.3	16.9	17.4
	Mean ±S.D.	15.08 0.31	14.26* 0.46	14.48 1.22	15.00 0.73	15.88 0.41	17.74 0.63	17.06 0.81	17.62 0.80	17.90 0.87	18.42 1.00	19.16 0.82	18.66 0.93	18.48 0.96	19.30* 1.23

Note) Hb : Hemoglobin concentration

* P<0.05 : Significantly different from Group 1.

Table 5-3

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	Ht (%)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	46.2	48.7	48.2	49.9	49.7	49.1	54.7	47.9	51.5	56.3	53.9	45.5	47.8	45.5
	5	45.6	45.2	45.8	44.9	50.9	51.4	53.7	53.4	49.3	51.8	52.5	51.5	53.6	48.2
	16	36.7	43.5	44.6	44.0	48.6	52.0	50.3	48.0	54.9	56.6	58.1	55.1	52.8	52.3
	17	48.3	50.5	48.1	53.2	50.6	46.3	51.0	44.4	55.7	53.7	57.6	52.7	52.4	50.1
	Mean ±S.D.	44.20 5.13	46.98 3.20	46.68 1.77	48.00 4.33	49.95 1.03	49.70 2.59	52.43 2.11	48.43 3.72	52.85 2.99	54.60 2.28	55.53 2.75	51.20 4.08	51.65 2.61	49.03 2.89
2	6	45.7	48.4	48.8	54.1	49.8	54.5	59.6	58.5	58.9	56.9	54.5	54.5	55.6	57.1
	7	41.7	44.3	40.4	44.2	47.7	50.5	49.6	43.6	46.7	48.5	53.8	50.2	51.7	51.9
	8	39.7	38.5	36.5	38.6	42.1	39.1	47.3	46.2	42.9	45.1	39.5	41.2	27.0	58.6
	9	48.1	46.0	46.3	50.2	53.0	55.9	53.5	56.4	56.9	58.8	52.1	54.8	58.0	58.6
	10	50.0	49.3	50.6	48.5	48.9	50.9	50.0	51.4	54.2	55.2	55.8	52.9	57.2	55.5
Mean ±S.D.	45.04 4.30	45.30 4.28	44.52 5.91	47.12 5.94	48.30 3.98	50.18 6.61	52.00 4.79	51.22 6.39	51.92 6.84	52.90 5.84	51.14 6.64	50.72 5.63	49.90 13.03	55.78** 2.88	
3	11	45.3	44.7	41.2	42.9	48.4	52.6	47.9	48.5	52.2	51.4	52.3	59.5	55.1	58.8
	12	46.6	43.2	49.8	45.9	45.9	55.9	50.9	49.4	54.2	58.1	58.5	55.2	54.5	54.6
	13	46.2	42.8	42.3	45.0	46.7	53.5	50.4	52.9	49.2	54.5	58.4	55.2	56.6	59.2
	14	45.1	41.1	45.2	43.2	46.5	50.9	53.7	53.4	55.3	56.6	59.2	54.6	57.9	58.1
	15	47.3	44.6	45.1	46.4	49.5	50.2	48.8	53.0	53.5	49.9	53.8	48.6	49.1	49.5
Mean ±S.D.	46.10 0.91	43.28* 1.48	44.72 3.33	44.68 1.57	47.40* 1.50	52.62 2.26	50.34 2.23	51.44 2.30	52.88 2.34	54.10 3.44	56.44 3.15	54.62 3.90	54.64 3.37	56.04* 4.08	

Note) Ht : Hematocrit value

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

Table 5-4

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	MCV (fL)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	48.8	51.8	53.7	52.0	52.0	51.3	53.2	53.1	54.3	52.9	51.8	51.4	52.9	52.6
	5	53.4	56.4	57.9	59.4	63.0	62.5	63.5	61.8	62.5	61.8	60.4	60.2	62.0	59.6
	16	57.8	60.8	60.8	61.5	60.6	61.4	61.2	61.1	63.5	65.3	66.0	64.2	64.9	64.9
	17	60.7	60.5	60.9	64.7	61.8	62.4	63.1	64.8	67.8	67.7	71.3	68.3	68.3	68.8
	Mean ±S.D.	55.18 5.20	57.38 4.22	58.33 3.38	59.40 5.39	59.35 5.00	59.40 5.42	60.25 4.81	60.20 5.00	62.03 5.64	61.93 6.49	62.38 8.34	61.03 7.22	62.03 6.61	61.48 7.02
2	6	48.7	50.5	53.2	50.5	49.8	51.4	53.6	53.7	54.4	54.5	53.8	54.3	56.3	54.5
	7	58.7	60.2	63.3	61.2	60.2	60.3	62.7	60.8	62.9	62.1	65.2	63.5	66.2	65.6
	8	53.3	55.2	57.8	55.0	57.0	57.1	59.8	59.4	58.6	58.5	56.2	57.5	58.2	
	9	49.1	50.9	56.2	57.9	57.2	58.7	59.1	59.0	58.9	61.1	59.8	60.1	61.2	61.0
	10	51.2	53.5	56.2	55.0	55.4	56.1	56.7	57.6	58.6	59.9	59.4	59.4	62.5	61.6
	Mean ±S.D.	52.20 4.07	54.06 3.94	57.34 3.72	55.92 3.96	55.92 3.84	56.72 3.38	58.38 3.42	58.10 2.71	58.68 3.01	59.22 2.96	58.88 4.30	58.96 3.39	60.88 3.85	60.68 4.60
3	11	54.5	55.1	57.6	55.8	58.2	57.5	55.8	54.8	57.5	57.9	58.2	61.3	60.5	61.1
	12	55.2	54.8	58.1	53.8	55.2	60.1	58.5	58.5	60.0	61.0	62.5	60.9	63.7	63.9
	13	55.6	55.3	59.8	60.4	62.2	64.4	63.4	64.8	63.7	64.9	65.1	66.2	68.3	67.8
	14	53.1	56.9	59.9	58.9	60.4	61.1	62.1	60.7	63.6	63.9	64.2	63.3	66.7	65.0
	15	53.5	56.8	62.1	60.2	61.0	60.5	60.9	61.1	61.1	61.6	62.2	60.7	63.1	62.5
	Mean ±S.D.	54.38 1.07	55.78 0.99	59.50 1.77	57.82 2.90	59.40 2.76	60.72 2.47	60.14 3.02	59.98 3.68	61.18 2.61	61.86 2.73	62.44 2.66	62.48 2.32	64.46 3.08	64.06 2.55

Note) MCV : Mean corpuscular volume

Not significantly different from Group 1.

Table 5-5

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	MCH (pg)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	15.3	16.0	16.3	16.7	16.8	16.9	17.7	17.4	17.9	18.0	17.3	17.5	17.6	18.2
	5	16.7	18.0	18.6	20.2	20.6	21.2	21.4	22.7	21.8	21.7	20.7	20.9	20.8	21.1
	16	19.8	20.9	21.1	21.1	21.0	21.0	21.2	21.6	21.5	21.9	22.2	22.1	22.4	22.9
	17	20.0	20.4	20.7	21.2	21.3	21.4	21.8	22.0	22.2	22.3	22.6	22.6	23.2	23.7
	Mean ±S.D.	17.95 2.32	18.83 2.27	19.18 2.21	19.80 2.12	19.93 2.10	20.13 2.16	20.53 1.90	20.93 2.39	20.85 1.99	20.98 2.00	20.70 2.41	20.78 2.30	21.00 2.48	21.48 2.44
2	6	16.4	16.3	16.6	16.5	16.8	16.9	17.3	17.7	18.4	19.0	18.8	18.8	19.1	19.3
	7	19.2	19.8	20.0	20.2	19.9	20.9	21.0	20.8	21.4	22.2	21.9	21.7	22.1	22.3
	8	17.3	17.5	18.9	18.6	19.2	20.2	20.4	20.4	20.3	20.2	19.9	19.7	19.5	
	9	16.0	16.3	17.9	18.8	19.5	19.9	20.2	19.6	19.6	20.5	20.6	20.5	20.6	20.9
	10	16.7	17.4	18.0	18.5	18.8	19.3	19.6	19.4	19.6	20.1	20.5	20.3	20.9	21.2
	Mean ±S.D.	17.12 1.26	17.46 1.43	18.28 1.26	18.52 1.32	18.84 1.21	19.44 1.53	19.70 1.43	19.58 1.20	19.86 1.10	20.40 1.16	20.34 1.13	20.20 1.07	20.44 1.19	20.93 1.24
3	11	17.8	18.2	18.8	18.4	18.4	19.1	18.7	18.9	19.3	19.8	20.0	20.0	20.5	21.3
	12	17.7	18.4	19.1	18.8	19.7	20.0	19.9	20.1	20.6	20.7	21.0	21.4	21.7	21.9
	13	18.2	18.3	18.9	20.0	21.0	21.7	21.4	21.7	21.5	21.7	22.0	21.7	22.7	22.8
	14	17.6	18.7	20.1	20.1	20.5	21.3	21.0	21.3	21.5	21.7	21.5	22.1	22.5	22.3
	15	17.7	18.3	19.5	19.6	19.9	20.3	20.7	20.8	20.7	21.4	21.4	21.6	21.7	22.0
	Mean ±S.D.	17.80 0.23	18.38 0.19	19.28 0.53	19.38 0.75	19.90 0.98	20.48 1.04	20.34 1.07	20.56 1.10	20.72 0.90	21.06 0.81	21.18 0.75	21.36 0.80	21.82 0.87	22.06 0.55

Note) MCH : Mean corpuscular hemoglobin

Not significantly different from Group 1.

Table 5-6

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	MCHC (g/dL)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	31.3	30.9	30.3	32.2	32.4	33.0	33.3	32.8	33.0	34.1	33.5	34.1	33.4	34.6
	5	31.2	31.8	32.2	34.1	32.7	33.9	33.7	36.8	34.9	35.1	34.2	34.7	33.5	35.4
	16	34.3	34.3	34.7	34.3	34.6	34.2	34.6	35.4	33.9	33.6	33.7	34.4	34.5	35.2
	17	33.0	33.7	33.9	32.8	34.5	34.3	34.6	34.0	32.7	32.9	31.6	33.1	34.0	34.4
	Mean ±S.D.	32.45 1.48	32.68 1.59	32.78 1.95	33.35 1.01	33.55 1.16	33.85 0.59	34.05 0.66	34.75 1.73	33.63 0.99	33.93 0.93	33.25 1.14	34.08 0.69	33.85 0.51	34.90 0.48
2	6	33.7	32.2	31.2	32.6	33.6	32.8	32.3	33.0	33.8	34.9	35.0	34.6	33.9	35.5
	7	32.8	32.8	31.6	33.0	33.1	34.7	33.6	34.2	34.0	35.6	33.6	34.3	33.5	34.0
	8	32.5	31.7	32.7	33.8	33.7	35.4	34.1	34.4	34.6	34.5	35.5	34.3	33.5	34.2
	9	32.5	32.1	32.0	32.5	34.1	33.9	34.1	33.2	33.3	33.5	34.4	34.2	33.6	34.2
	10	32.6	32.5	32.1	33.7	33.9	34.5	34.6	33.7	33.5	33.5	34.6	34.2	33.5	34.4
	Mean ±S.D.	32.82 0.51	32.26 0.42	31.92 0.56	33.12 0.61	33.68 0.38	34.26 0.98	33.74 0.88	33.70 0.61	33.84 0.50	34.40 0.91	34.62* 0.71	34.32 0.16	33.60 0.17	34.53 0.67
3	11	32.7	32.9	32.7	33.0	31.7	33.3	33.5	34.5	33.5	34.2	34.3	32.6	33.8	34.9
	12	32.1	33.6	32.8	35.0	35.6	33.2	34.1	34.4	34.3	33.9	33.5	35.1	34.0	34.3
	13	32.8	33.1	31.6	33.1	33.8	33.7	33.8	33.5	33.8	33.4	33.8	32.8	33.3	33.7
	14	33.2	32.9	33.5	34.1	33.9	34.8	33.8	35.1	33.8	33.9	33.4	34.9	33.7	34.3
	15	33.1	32.2	31.4	32.6	32.6	33.6	33.9	34.0	33.9	34.8	34.5	35.6	34.4	35.2
	Mean ±S.D.	32.78 0.43	32.94 0.50	32.40 0.88	33.56 0.98	33.52 1.48	33.72 0.64	33.82 0.22	34.30 0.60	33.86 0.29	34.04 0.51	33.90 0.48	34.20 1.39	33.84 0.40	34.48 0.58

Note) MCHC : Mean corpuscular hemoglobin concentration

* P<0.05 : Significantly different from Group 1.

Table 5-7

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	Plat. (10 ³ /μL)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	324	354	356	370	297	335	253	369	377	216	247	346	360	363
	5	556	418	436	458	369	346	284	305	304	313	258	241	234	297
	16	534	423	400	395	277	322	266	353	334	369	370	393	283	372
	17	345	343	370	378	354	294	297	477	320	339	380	400	172	399
	Mean ±S.D.	439.8 122.2	384.5 41.9	390.5 35.5	400.3 39.9	324.3 44.2	324.3 22.4	275.0 19.4	376.0 72.6	333.8 31.3	309.3 66.2	313.8 71.0	345.0 73.4	262.3 79.4	357.8 43.3
2	6	406	335	346	307	317	225	234	239	204	198	201	184	202	192
	7	626	481	501	483	460	441	384	587	354	315	272	374	354	356
	8	392	501	443	407	452	421	357	451	389	331	361	405	302	
	9	425	425	413	383	286	325	481	353	280	266	328	280	241	230
	10	294	372	305	340	329	367	361	257	372	212	221	270	212	399
	Mean ±S.D.	428.6 121.4	422.8 70.4	401.6 77.7	384.0 67.4	368.8 81.2	355.8 86.2	363.4* 88.1	377.4 144.6	319.8 76.9	264.4 59.5	276.6 68.2	302.6 88.4	262.2 64.4	294.3 98.9
3	11	663	566	494	571	547	442	548	507	433	426	334	291	280	228
	12	569	431	375	315	291	309	341	421	313	260	256	246	260	278
	13	508	499	490	533	494	413	432	453	411	404	327	381	282	281
	14	372	400	345	330	317	347	241	261	229	213	183	196	193	223
	15	305	410	492	428	359	419	382	335	231	353	229	243	247	300
	Mean ±S.D.	483.4 145.3	461.2* 70.2	439.2 73.1	435.4 115.7	401.6 112.8	386.0* 55.7	388.8* 113.3	395.4 97.6	323.4 96.5	331.2 91.9	265.8 64.6	271.4 69.9	252.4 36.2	262.0** 34.4

Note) Plat. : Platelet count

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

Table 5-8

Hematology in male microminipigs

Study No. SBL703-023

Group	Animal No.	WBC (10 ³ /μL)													
		Pre	2w	4w	8w	12w	16w	20w	24w	28w	32w	36w	40w	44w	48w
1	1	11.65	9.00	9.24	9.35	9.65	10.76	11.24	12.21	12.18	11.06	25.09	13.21	11.39	10.50
	5	15.18	9.47	9.71	8.56	9.73	8.90	8.25	9.87	13.69	10.05	9.43	8.99	8.05	8.28
	16	14.99	9.24	10.36	10.20	8.55	10.55	11.05	9.47	9.15	9.50	9.50	8.95	8.36	7.60
	17	17.23	12.08	15.99	13.09	20.72	12.00	10.47	10.29	13.86	10.44	12.00	9.33	10.16	9.45
	Mean ±S.D.	14.763 2.310	9.948 1.435	11.325 3.144	10.300 1.977	12.163 5.730	10.553 1.274	10.253 1.375	10.460 1.214	12.220 2.182	10.263 0.657	14.005 7.486	10.120 2.067	9.490 1.572	8.958 1.281
2	6	14.76	12.94	11.55	12.38	12.04	23.59	12.46	18.64	15.06	11.04	13.05	10.66	11.19	10.34
	7	12.93	12.02	24.42	10.30	8.55	11.43	9.73	7.74	11.55	9.00	8.90	8.15	7.89	8.65
	8	14.64	10.92	12.43	11.39	8.83	8.61	8.50	12.46	9.56	8.08	5.75	6.24	4.65	
	9	22.36	11.08	11.75	11.57	8.48	8.93	9.01	9.30	14.96	11.70	12.38	13.38	10.47	9.58
	10	13.73	13.04	14.07	13.05	10.83	12.33	13.44	10.22	10.72	10.66	11.56	11.37	10.25	10.34
Mean ±S.D.	15.684 3.805	12.000* 0.997	14.844 5.444	11.738 1.043	9.746 1.605	12.978 6.142	10.628 2.192	11.672 4.254	12.370 2.512	10.096 1.504	10.328 3.006	9.960 2.797	8.890 2.675	9.728 0.803	
3	11	14.60	13.58	12.77	14.20	11.68	14.81	12.28	11.27	13.79	14.24	15.68	14.93	13.59	12.11
	12	16.60	14.44	15.32	15.30	12.04	14.89	12.94	14.93	12.78	13.99	14.75	12.80	13.27	11.47
	13	10.98	10.11	10.13	10.20	8.01	8.03	8.02	7.74	7.99	9.81	9.16	11.22	9.51	9.11
	14	12.22	8.15	8.51	8.02	8.66	11.09	8.98	7.87	9.58	14.94	13.39	10.39	8.58	9.70
	15	13.80	11.50	10.11	9.16	10.60	10.05	10.37	10.16	8.78	11.84	8.17	9.82	9.10	7.76
Mean ±S.D.	13.640 2.168	11.556 2.555	11.368 2.686	11.376 3.199	10.198 1.796	11.774 3.016	10.518 2.098	10.394 2.950	10.584 2.554	12.964* 2.109	12.230 3.373	11.832 2.064	10.810 2.417	10.030 1.768	

Note) WBC : Leukocyte count

* P<0.05 : Significantly different from Group 1.