Blood chemistry

AST	(IU/L)	Aspartate transaminase
ALT	(IU/L)	Alanine transaminase
ALP	(IU/L)	Alkaline phosphatase
T-Bil	(mg/dL)	Total bilirubin
TP	(g/dL)	Total protein
PL	(mg/dL)	Phospholipid
TG	(mg/dL)	Triglyceride
T-cho	(mg/dL)	Total cholesterol

Table 4-1 Blood chemistry in male mice Study No. SBL366-003

Group		CL sollution	LRX	LRX	LRX	LRX
Dose (μg/kg)			0.005	0.5	50	5000
N		5	3	4	4	4
AST	(IU/L)	45.6±5.5	44.0±4.6	54.8±15.8	54.0±6.4	73.5±14.6**
ALT	(IU/L)	29.6±4.0	26.7±5.5	33.3±8.2	37.8±19.3	32.3±4.8
ALP	(IU/L)	167.2±16.8	176.3±17.6	246.8±68.3	252.0±182.7	213.0±53.2
T-Bil	(mg/dL)	0.086±0.005	0.087±0.012	0.105±0.013	0.103±0.022	0.098±0.028
TP	(g/dL)	4.48±0.23	4.43±0.15	4.65±0.19	4.60±0.16	4.70±0.12
PL	(mg/dL)	225.0±24.4	246.3±12.6	255.8±28.8	191.3±25.9	205.3±15.3
TG	(mg/dL)	43.4±16.4	74.7±28.9	70.0±29.1	44.5±11.9	37.3±20.0
T-cho	(mg/dL)	145.0±21.2	150.3±2.9	157.5±25.3	114.0±20.5	125.5±10.1
Glucose	(mg/dL)	207.4±49.7	176.7±29.3	197.5±25.5	182.5±43.6	175.8±20.1
Albumin	(g/dL)	3.02±0.15	2.97±0.12	3.00±0.08	3.05±0.17	3.08±0.10

Values are expressed as the mean ± S.D.
** P<0.01 : Significantly different from CL sollution.

Table 4-2 Blood chemistry in male mice Study No. SBL366-003

Group		LRY	LRY	LRY	LRY
Dose (μg/kg)		0.005	0.5	50	5000
N		3	4	4	1
AST	(IU/L)	46.3±8.5	58.0±27.9	46.0±4.5	40.0
ALT	(IU/L)	31.7±4.5	28.8±6.1	31.0±7.3	28.0
ALP	(IU/L)	178.3±38.1	241.5±113.3	178.8±45.4	142.0
T-Bil	(mg/dL)	0.073±0.021	0.093±0.010	0.088±0.015	0.080
TP	(g/dL)	4.57±0.31	4.75±0.13	4.63±0.10	4.60
PL	(mg/dL)	216.0±16.7	221.5±26.6	214.8±35.7	191.0
TG	(mg/dL)	37.0±8.0	56.3±19.7	43.8±18.2	50.0
T-cho	(mg/dL)	132.0±8.9	140.3±26.8	140.8±20.1	112.0
Glucose	(mg/dL)	180.7±5.5	183.0±9.4	198.5±18.3	198.0
Albumin	(g/dL)	3.03±0.25	3.15±0.13	3.03±0.17	3.00

Values are expressed as the mean ± S.D.
Not significantly different from CL sollution.

Table 4-3 Blood chemistry in male mice Study No. SBL366-003

Group		LRZ	LRZ	LRZ	LRZ
Dose (μg/kg)		0.005	0.5	50	5000
N		3	4	4	4
AST	(IU/L)	45.7±12.7	44.5±12.8	49.5±12.4	80.5±33.4
ALT	(IU/L)	34.7±10.4	29.5±6.5	27.5±5.9	35.8±6.8
ALP	(IU/L)	193.0±29.1	177.8±42.7	205.8±104.1	219.8±25.3
T-Bil	(mg/dL)	0.077±0.015	0.105±0.026	0.093±0.021	0.103±0.032
TP	(g/dL)	4.40±0.26	4.45±0.17	4.68±0.05	4.68±0.38
PL	(mg/dL)	202.7±25.6	186.0±38.4	236.5±23.5	209.3±25.2
TG	(mg/dL)	47.7±7.4	39.0±15.3	62.3±25.0	29.8±12.5
T-cho	(mg/dL)	127.7±24.0	113.5±22.4	143.3±16.0	138.5±9.9
Glucose	(mg/dL)	170.0±26.1	186.5±14.0	183.5±38.0	179.8±10.7
Albumin	(g/dL)	2.90±0.20	2.88±0.17	3.10±0.08	3.00±0.27

Values are expressed as the mean ± S.D.
Not significantly different from CL sollution.

Table 4-4 Blood chemistry in female mice Study No. SBL366-003

Group		CL sollution	LRX	LRX	LRX	LRX
Dose (μg/kg)			0.005	0.5	50	5000
N		5	3	4	4	3
AST	(IU/L)	49.2±2.3	52.7±10.2	65.5±17.3	75.5±19.3*	78.0±21.8
ALT	(IU/L)	28.6±7.9	23.3±4.5	30.5±6.6	42.5±18.0	42.0±3.0
ALP	(IU/L)	311.8±117.8	243.7±21.6	247.5±52.5	313.0±26.5	285.0±55.1
T-Bil	(mg/dL)	0.064±0.015	0.060±0.017	0.055±0.013	0.055±0.031	0.057±0.006
TP	(g/dL)	4.24±0.05	4.43±0.15	4.58±0.15*	4.43±0.43	4.63±0.32
PL	(mg/dL)	137.6±17.7	130.0±18.0	149.8±9.4	169.8±20.2*	145.3±19.4
TG	(mg/dL)	14.4±5.7	16.0±6.1	26.5±8.4	29.3±12.0*	12.3±1.5
T-cho	(mg/dL)	87.4±13.1	76.7±6.0	88.5±6.8	103.0±16.1	84.0±13.5
Glucose	(mg/dL)	174.6±25.4	190.0±45.2	174.0±18.3	198.5±24.8	181.7±5.0
Albumin	(g/dL)	3.06±0.11	3.03±0.15	3.20±0.14	3.08±0.33	3.17±0.12

Values are expressed as the mean ± S.D.
* $P<0.05$: Significantly different from CL sollution.

Table 4-5 Blood chemistry in female mice Study No. SBL366-003

Group		LRY	LRY	LRY	LRY
Dose(μg/kg)		0.005	0.5	50	5000
N		3	4	4	1
AST	(IU/L)	54.3±5.1	69.0±8.5*	77.8±18.5**	47.0
ALT	(IU/L)	30.7±10.3	33.8±6.3	40.0±11.9	31.0
ALP	(IU/L)	301.3±96.2	272.8±23.8	285.0±39.1	239.0
T-Bil	(mg/dL)	0.077±0.021	0.073±0.015	0.060±0.014	0.020
TP	(g/dL)	4.63±0.23*	4.40±0.14	4.58±0.33	4.30
PL	(mg/dL)	137.0±19.1	121.8±6.6	136.8±6.1	137.0
TG	(mg/dL)	19.7±5.9	27.8±12.0	28.3±10.9	24.0
T-cho	(mg/dL)	75.7±10.4	67.5±8.8	77.3±6.3	79.0
Glucose	(mg/dL)	182.7±18.5	175.5±11.7	185.8±24.8	198.0
Albumin	(g/dL)	3.23±0.15	2.98±0.10	3.20±0.18	3.00

Values are expressed as the mean ± S.D.
* P<0.05 , ** P<0.01 : Significantly different from CL sollution.

Table 4-6 Blood chemistry in female mice Study No. SBL366-003

Group		LRZ	LRZ	LRZ	LRZ
Dose(μg/kg)		0.005	0.5	50	5000
N		3	4	4	3
AST	(IU/L)	56.3±10.5	69.0±3.8*	66.5±14.8	70.7±11.6
ALT	(IU/L)	26.7±6.5	37.3±6.4	38.0±11.2	32.3±7.6
ALP	(IU/L)	287.7±19.5	268.0±69.3	276.5±66.4	314.7±70.5
T-Bil	(mg/dL)	0.037±0.021	0.070±0.014	0.043±0.021	0.060±0.026
TP	(g/dL)	4.33±0.25	4.70±0.27*	4.45±0.25	4.43±0.12
PL	(mg/dL)	136.0±2.6	122.8±11.8	134.8±12.9	128.7±26.5
TG	(mg/dL)	21.3±9.7	25.8±5.6	31.5±13.7*	18.7±8.6
T-cho	(mg/dL)	79.0±3.5	65.0±10.1*	75.0±12.7	72.0±16.1
Glucose	(mg/dL)	158.7±22.8	162.8±16.5	188.8±22.1	197.3±27.2
Albumin	(g/dL)	3.07±0.21	3.20±0.22	3.10±0.20	3.10±0.10

Values are expressed as the mean ± S.D.
* P<0.05 : Significantly different from CL sollution.

Necropsy

Grade

0 : No abnormal changes

1 : Slight

2 : Moderate

3 : Marked

P : Non-graded changes

Table 5-1 Necropsy in male mice Study No. SBL366-003

Findings	Group / Dose(μg/kg) / Grade	CL sollution 0	1	2	3	P	LRX 0.005 0	1	2	3	P	LRX 0.5 0	1	2	3	P	LRX 50 0	1	2	3	P	LRX 5000 0	1	2	3	P
Spleen																										
Enlargement		5				0	3				0	4				0	3				1	1				3
Lymph node (Inguinal)																										
Enlargement, left		5				0	3				0	4				0	4				0	3				1
Enlargement, right		5				0	3				0	4				0	4				0	3				1

Numerals represent the number of animals.

Table 5-2 Necropsy in male mice Study No. SBL366-003

Findings	Group Dose(μg/kg) Grade	LRY 0.005 0	1	2	3	P	LRY 0.5 0	1	2	3	P	LRY 50 0	1	2	3	P	LRY 5000 0	1	2	3	P
Spleen																					
Enlargement		3				0	4				0	2				2	1				0
Lymph node (Submandibular)																					
Enlargement, left		3				0	4				0	3				1	1				0
Enlargement, right		3				0	4				0	3				1	1				0

Numerals represent the number of animals.

Table 5-3 Necropsy in male mice Study No. SBL366-003

Findings	Group Dose(μg/kg) Grade	LRZ 0.005 0	1	2	3	P	LRZ 0.5 0	1	2	3	P	LRZ 50 0	1	2	3	P	LRZ 5000 0	1	2	3	P
Spleen																					
Enlargement		2				1	4				0	3				1	2				2
Lymph node (Submandibular)																					
Enlargement, left		3				0	4				0	4				0	2				2
Enlargement, right		3				0	4				0	4				0	2				2
Lymph node (Inguinal)																					
Enlargement, left		3				0	4				0	4				0	2				2
Enlargement, right		3				0	4				0	4				0	2				2
Lymph node (Axillary)																					
Enlargement, left		3				0	4				0	4				0	3				1
Enlargement, right		3				0	4				0	4				0	3				1

Numerals represent the number of animals.

Table 5-4 Necropsy in female mice Study No. SBL366-003

Findings	Group / Dose (μg/kg) / Grade	CL sollution 0	1	2	3	P	LRX 0.005 0	1	2	3	P	LRX 0.5 0	1	2	3	P	LRX 50 0	1	2	3	P	LRX 5000 0	1	2	3	P
Spleen																										
Enlargement		5				0	2				1	3				1	2				2	3				0

Numerals represent the number of animals.

Table 5-5 Necropsy in female mice Study No. SBL366-003

Findings	Group Dose(μg/kg) Grade	LRY 0.005 0 1 2 3 P	LRY 0.5 0 1 2 3 P	LRY 50 0 1 2 3 P	LRY 5000 0 1 2 3 P
No abnormal changes		3	4	4	1

Numerals represent the number of animals.

Table 5-6 Necropsy in female mice Study No. SBL366-003

Findings	Group / Dose (μg/kg) / Grade	LRZ 0.005					LRZ 0.5					LRZ 50					LRZ 5000				
		0	1	2	3	P	0	1	2	3	P	0	1	2	3	P	0	1	2	3	P
Spleen																					
Enlargement		3				0	3				1	4				0	2				1

Numerals represent the number of animals.

Table 6-1 Organ weight in male mice Study No. SBL366-003

Group		CL sollution	LRX	LRX	LRX	LRX
Dose(μg/kg)			0.005	0.5	50	5000
N		5	3	4	4	4
Spleen	(mg)	118.6±17.7	174.7±24.7*	156.8±14.2	187.5±33.4**	224.8±36.5**
Liver	(mg)	1500.4±93.1	1668.3±119.9	1522.8±100.2	1570.8±170.3	1605.5±22.8

Values are expressed as the mean ± S.D.
* P<0.05 , ** P<0.01 : Significantly different from CL sollution.

Table 6-2 Organ weight in male mice Study No. SBL366-003

Group		LRY	LRY	LRY	LRY
Dose(μg/kg)		0.005	0.5	50	5000
N		3	4	4	1
Spleen	(mg)	126.3±6.5	144.8±16.5	208.3±37.2**	161.0
Liver	(mg)	1448.3±72.0	1504.5±96.5	1581.3±69.6	1451.0

Values are expressed as the mean ± S.D.
** P<0.01 : Significantly different from CL sollution.

Table 6-3 Organ weight in male mice Study No. SBL366-003

Group		LRZ	LRZ	LRZ	LRZ
Dose(μg/kg)		0.005	0.5	50	5000
N		3	4	4	4
Spleen	(mg)	174.3±59.1	180.5±17.8	170.8±57.1	226.8±66.8*
Liver	(mg)	1624.7±174.6	1543.3±159.7	1573.8±79.9	1711.0±99.5

Values are expressed as the mean ± S.D.
* P<0.05 : Significantly different from CL sollution.

Table 6-4 Organ weight in female mice Study No. SBL366-003

Group		CL sollution	LRX	LRX	LRX	LRX
Dose(μg/kg)			0.005	0.5	50	5000
N		5	3	4	4	3
Spleen	(mg)	108.8±12.3	185.7±26.3*	131.8±54.0	190.5±37.1**	165.7±13.3
Liver	(mg)	1056.6±43.8	1127.7±109.7	1057.8±108.5	1203.8±95.0	1279.7±213.4

Values are expressed as the mean ± S.D.
* P<0.05 , ** P<0.01 : Significantly different from CL sollution.

Table 6-5 Organ weight in female mice Study No. SBL366-003

Group		LRY	LRY	LRY	LRY
Dose(μg/kg)		0.005	0.5	50	5000
N		3	4	4	1
Spleen	(mg)	129.3±29.0	149.3±30.3*	142.0±12.3	149.0
Liver	(mg)	1080.7±83.3	1136.3±97.3	1101.8±67.0	1122.0

Values are expressed as the mean ± S.D.
* P<0.05 : Significantly different from CL sollution.

Table 6-6 Organ weight in female mice Study No. SBL366-003

Group		LRZ	LRZ	LRZ	LRZ
Dose(μg/kg)		0.005	0.5	50	5000
N		3	4	4	3
Spleen	(mg)	119.7±31.0	168.8±70.6	149.5±27.4	165.7±40.3
Liver	(mg)	1122.0±49.5	1112.3±163.2	1152.3±58.7	1192.7±106.2

Values are expressed as the mean ± S.D.
Not significantly different from CL sollution.