

Table 5-9

Hematology in male microminipigs

Study No. SBL703-023

| Group | Animal No. | PT (s) | | | | | | | | | | | | | |
|-------|---------------|---------------|----------------|-----------------|---------------|----------------|----------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 12.0 | 13.2 | 14.6 | 13.1 | 14.3 | 14.1 | 13.4 | 13.4 | 15.6 | 13.4 | 12.2 | 13.0 | 13.9 | 12.6 |
| | 5 | 9.9 | 12.6 | 12.6 | 12.6 | 13.2 | 11.9 | 13.3 | 12.2 | 13.8 | 12.4 | 13.1 | 13.4 | 11.6 | 12.2 |
| | 16 | 12.7 | 13.9 | 14.1 | 14.2 | 13.4 | 11.9 | 13.9 | 11.9 | 15.1 | 14.5 | 11.0 | 11.8 | 13.2 | 10.7 |
| | 17 | 13.3 | 13.4 | 13.7 | 12.0 | 12.8 | 14.1 | 12.1 | 11.7 | 13.7 | 13.3 | 14.6 | 13.7 | 11.3 | 13.6 |
| | Mean ±S.D. | 11.98 1.48 | 13.28 0.54 | 13.75 0.85 | 12.98 0.93 | 13.43 0.63 | 13.00 1.27 | 13.18 0.76 | 12.30 0.76 | 14.55 0.95 | 13.40 0.86 | 12.73 1.52 | 12.98 0.83 | 12.50 1.25 | 12.28 1.20 |
| 2 | 6 | 12.5 | 13.3 | 13.7 | 11.9 | 13.8 | 13.2 | 12.7 | 11.7 | 14.7 | 14.5 | 13.7 | 15.4 | 15.4 | 13.2 |
| | 7 | 11.4 | 12.9 | 13.2 | 12.4 | 12.3 | 11.2 | 12.8 | 11.9 | 13.4 | 11.1 | 12.5 | 13.2 | 12.6 | 12.5 |
| | 8 | 11.3 | 12.8 | 12.6 | 12.3 | 11.9 | 12.9 | 13.2 | 12.1 | 13.4 | 12.7 | 12.5 | 12.1 | 11.7 | |
| | 9 | 11.5 | 12.9 | 11.5 | 11.8 | 12.0 | 11.8 | 12.4 | 12.4 | 12.4 | 11.5 | 12.4 | 12.1 | 13.0 | 12.5 |
| | 10 | 11.8 | 11.9 | 11.2 | 12.5 | 12.0 | 11.8 | 12.6 | 12.8 | 13.2 | 13.2 | 12.1 | 12.8 | 13.4 | 12.7 |
| | Mean ±S.D. | 11.70 0.48 | 12.76 0.52 | 12.44* 1.07 | 12.18 0.31 | 12.40* 0.80 | 12.18 0.84 | 12.74 0.30 | 12.18 0.43 | 13.42* 0.83 | 12.60 1.36 | 12.64 0.61 | 13.12 1.36 | 13.22 1.37 | 12.73 0.33 |
| 3 | 11 | 11.2 | 11.7 | 11.6 | 11.5 | 11.9 | 11.8 | 11.7 | 11.1 | 12.2 | 12.6 | 11.5 | 12.7 | 12.1 | 11.8 |
| | 12 | 11.9 | 12.3 | 11.2 | 12.5 | 12.1 | 12.0 | 13.3 | 13.2 | 13.2 | 13.4 | 14.0 | 12.5 | 13.0 | 12.7 |
| | 13 | 12.8 | 13.3 | 12.8 | 12.9 | 12.2 | 12.0 | 12.2 | 13.3 | 13.8 | 14.9 | 14.8 | 13.0 | 13.9 | 12.9 |
| | 14 | 10.7 | 12.2 | 11.9 | 12.6 | 12.2 | 10.2 | 12.5 | 11.7 | 11.9 | 12.6 | 11.3 | 13.0 | 12.5 | 12.7 |
| | 15 | 11.8 | 11.3 | 11.5 | 11.1 | 11.9 | 10.8 | 12.6 | 12.0 | 12.9 | 13.2 | 10.3 | 12.8 | 12.5 | 12.0 |
| | Mean ±S.D. | 11.68 0.79 | 12.16* 0.75 | 11.80** 0.61 | 12.12 0.78 | 12.06* 0.15 | 11.36* 0.82 | 12.46 0.59 | 12.26 0.96 | 12.80** 0.76 | 13.34 0.94 | 12.38 1.92 | 12.80 0.21 | 12.80 0.69 | 12.42 0.49 |

Note) PT : Prothrombin time

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

Table 5-10

Hematology in male microminipigs

Study No. SBL703-023

| Group | Animal No. | APTT (s) | | | | | | | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|----------------|----------------|----------------|---------------|----------------|---------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 10.1 | 11.3 | 11.8 | 11.4 | 11.8 | 11.5 | 10.4 | 9.9 | 12.9 | 13.5 | 11.1 | 13.0 | 13.8 | 10.4 |
| | 5 | 8.8 | 10.7 | 9.7 | 10.4 | 11.1 | 9.4 | 10.1 | 9.2 | 13.2 | 10.5 | 11.6 | 11.8 | 9.1 | 12.2 |
| | 16 | 11.5 | 10.9 | 11.4 | 13.7 | 12.5 | 8.6 | 13.8 | 9.8 | 12.1 | 16.2 | 11.9 | 12.2 | 13.6 | 10.2 |
| | 17 | 8.1 | 11.7 | 11.6 | 10.7 | 11.0 | 12.0 | 14.5 | 8.6 | 11.6 | 14.3 | 17.1 | 14.3 | 10.6 | 13.8 |
| | Mean ±S.D. | 9.63 1.50 | 11.15 0.44 | 11.13 0.96 | 11.55 1.49 | 11.60 0.70 | 10.38 1.63 | 12.20 2.27 | 9.38 0.60 | 12.45 0.73 | 13.63 2.37 | 12.93 2.80 | 12.83 1.10 | 11.78 2.31 | 11.65 1.69 |
| 2 | 6 | 11.0 | 11.3 | 10.3 | 11.0 | 10.5 | 11.8 | 10.4 | 9.7 | 11.6 | 11.9 | 11.0 | 12.5 | 15.1 | 15.0 |
| | 7 | 10.2 | 11.5 | 11.4 | 11.1 | 9.9 | 9.6 | 10.2 | 10.7 | 9.9 | 9.8 | 9.8 | 10.8 | 11.3 | 12.1 |
| | 8 | 9.8 | 10.6 | 9.2 | 11.7 | 10.3 | 10.3 | 11.3 | 11.0 | 12.0 | 12.2 | 11.3 | 11.4 | 11.6 | |
| | 9 | 8.3 | 9.9 | 8.3 | 9.1 | 8.1 | 7.8 | 7.8 | 10.0 | 9.6 | 8.4 | 9.7 | 8.6 | 12.8 | 13.1 |
| | 10 | 10.5 | 11.1 | 11.0 | 11.6 | 10.0 | 10.2 | 11.8 | 11.4 | 12.0 | 10.1 | 8.2 | 10.6 | 14.6 | 14.9 |
| Mean ±S.D. | 9.96 1.03 | 10.88 0.64 | 10.04 1.28 | 10.90 1.05 | 9.76** 0.96 | 9.94 1.44 | 10.30 1.54 | 10.56* 0.70 | 11.02* 1.18 | 10.48* 1.57 | 10.00* 1.23 | 10.78* 1.43 | 13.08 1.72 | 13.78 1.42 | |
| 3 | 11 | 10.4 | 11.0 | 10.2 | 12.7 | 9.4 | 10.3 | 10.2 | 10.7 | 10.8 | 10.3 | 11.1 | 11.7 | 12.7 | 13.8 |
| | 12 | 10.7 | 11.2 | 9.1 | 11.9 | 10.7 | 9.7 | 13.3 | 12.1 | 11.8 | 9.7 | 11.1 | 11.9 | 12.1 | 13.3 |
| | 13 | 9.2 | 10.0 | 8.8 | 9.5 | 9.2 | 8.6 | 8.1 | 10.4 | 8.9 | 10.3 | 11.2 | 9.4 | 13.7 | 16.0 |
| | 14 | 9.9 | 11.1 | 10.1 | 12.7 | 11.5 | 8.7 | 12.0 | 11.2 | 9.7 | 11.3 | 10.6 | 13.0 | 12.7 | 16.5 |
| | 15 | 10.8 | 9.5 | 7.7 | 9.1 | 9.3 | 7.8 | 9.2 | 10.5 | 11.0 | 12.1 | 9.1 | 11.4 | 13.7 | 13.2 |
| Mean ±S.D. | 10.20 0.66 | 10.56 0.76 | 9.18* 1.03 | 11.18 1.75 | 10.02* 1.03 | 9.02 0.98 | 10.56 2.10 | 10.98** 0.70 | 10.44** 1.14 | 10.74* 0.95 | 10.62 0.88 | 11.48 1.31 | 12.98 0.70 | 14.56* 1.57 | |

Note) APTT : Activated partial thromboplastin time

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

Table 6-1

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | AST (IU/L) | | | | | | | | | | | | | |
|---------------|---------------|---------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 20 | 33 | 27 | 37 | 31 | 39 | 50 | 32 | 24 | 41 | 38 | 34 | 29 | 19 |
| | 5 | 35 | 36 | 40 | 43 | 33 | 99 | 70 | 39 | 28 | 31 | 34 | 36 | 40 | 29 |
| | 16 | 33 | 19 | 20 | 18 | 23 | 17 | 23 | 20 | 22 | 24 | 45 | 24 | 24 | 28 |
| | 17 | 31 | 21 | 36 | 23 | 30 | 20 | 27 | 18 | 21 | 20 | 29 | 28 | 29 | 21 |
| | Mean ±S.D. | 29.8 6.7 | 27.3 8.5 | 30.8 9.0 | 30.3 11.7 | 29.3 4.3 | 43.8 38.1 | 42.5 21.9 | 27.3 10.0 | 23.8 3.1 | 29.0 9.2 | 36.5 6.8 | 30.5 5.5 | 30.5 6.8 | 24.3 5.0 |
| 2 | 6 | 24 | 31 | 26 | 37 | 30 | 103 | 51 | 36 | 34 | 67 | 101 | 36 | 23 | 29 |
| | 7 | 22 | 29 | 28 | 28 | 23 | 26 | 26 | 27 | 21 | 31 | 33 | 31 | 28 | 29 |
| | 8 | 23 | 25 | 28 | 27 | 27 | 25 | 28 | 28 | 23 | 27 | 27 | 31 | 26 | |
| | 9 | 17 | 64 | 22 | 46 | 27 | 39 | 43 | 78 | 46 | 72 | 39 | 44 | 57 | 44 |
| | 10 | 35 | 43 | 33 | 35 | 56 | 46 | 33 | 29 | 35 | 30 | 46 | 45 | 30 | 23 |
| Mean ±S.D. | 24.2 6.6 | 38.4 15.8 | 27.4 4.0 | 34.6 7.7 | 32.6 13.3 | 47.8 32.1 | 36.2 10.6 | 39.6 21.8 | 31.8 10.1 | 45.4 22.1 | 49.2 29.8 | 37.4 6.8 | 32.8 13.8 | 31.3 9.0 | |
| 3 | 11 | 22 | 25 | 33 | 42 | 30 | 31 | 29 | 38 | 40 | 54 | 40 | 42 | 26 | 38 |
| | 12 | 29 | 34 | 33 | 31 | 39 | 37 | 39 | 36 | 30 | 34 | 33 | 53 | 30 | 30 |
| | 13 | 23 | 25 | 23 | 31 | 23 | 32 | 29 | 48 | 35 | 26 | 39 | 89 | 37 | 45 |
| | 14 | 28 | 45 | 26 | 26 | 25 | 30 | 32 | 38 | 31 | 33 | 37 | 41 | 25 | 27 |
| | 15 | 22 | 31 | 43 | 39 | 27 | 95 | 41 | 46 | 22 | 24 | 28 | 25 | 20 | 21 |
| Mean ±S.D. | 24.8 3.4 | 32.0 8.2 | 31.6 7.7 | 33.8 6.5 | 28.8 6.3 | 45.0 28.1 | 34.0 5.7 | 41.2* 5.4 | 31.6* 6.7 | 34.2 11.9 | 35.4 4.9 | 50.0 24.0 | 27.6 6.3 | 32.2 9.4 | |

Note) AST : Aspartate transaminase

* P<0.05 : Significantly different from Group 1.

Table 6-2

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | ALT (IU/L) | | | | | | | | | | | | | |
|-------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 31 | 41 | 39 | 37 | 31 | 33 | 35 | 37 | 26 | 27 | 32 | 35 | 33 | 28 |
| | 5 | 74 | 66 | 56 | 59 | 61 | 51 | 53 | 46 | 45 | 45 | 43 | 49 | 48 | 52 |
| | 16 | 26 | 24 | 21 | 18 | 20 | 19 | 19 | 21 | 22 | 21 | 26 | 27 | 27 | 27 |
| | 17 | 52 | 36 | 33 | 34 | 33 | 31 | 36 | 27 | 30 | 32 | 32 | 33 | 36 | 33 |
| | Mean ±S.D. | 45.8 21.9 | 41.8 17.7 | 37.3 14.6 | 37.0 16.9 | 36.3 17.5 | 33.5 13.2 | 35.8 13.9 | 32.8 11.0 | 30.8 10.0 | 31.3 10.2 | 33.3 7.1 | 36.0 9.3 | 36.0 8.8 | 35.0 11.6 |
| 2 | 6 | 39 | 40 | 37 | 30 | 30 | 39 | 34 | 32 | 24 | 27 | 31 | 28 | 23 | 29 |
| | 7 | 47 | 44 | 46 | 36 | 39 | 33 | 32 | 33 | 27 | 27 | 29 | 28 | 27 | 27 |
| | 8 | 45 | 46 | 38 | 36 | 40 | 40 | 38 | 40 | 34 | 37 | 39 | 46 | 41 | 32 |
| | 9 | 36 | 42 | 38 | 34 | 39 | 40 | 34 | 37 | 33 | 35 | 33 | 32 | 33 | 32 |
| | 10 | 60 | 63 | 56 | 47 | 52 | 38 | 36 | 37 | 36 | 30 | 30 | 30 | 27 | 28 |
| | Mean ±S.D. | 45.4 9.3 | 47.0 9.2 | 43.0 8.1 | 36.6 6.3 | 40.0 7.8 | 38.0 2.9 | 34.8 2.3 | 35.8 3.3 | 30.8 5.1 | 31.2 4.6 | 32.4 4.0 | 32.8 7.6 | 30.2 7.0 | 29.0 2.2 |
| 3 | 11 | 51 | 41 | 44 | 37 | 39 | 43 | 38 | 35 | 31 | 33 | 31 | 32 | 30 | 36 |
| | 12 | 54 | 48 | 50 | 42 | 38 | 37 | 36 | 39 | 31 | 35 | 31 | 35 | 28 | 29 |
| | 13 | 54 | 50 | 45 | 43 | 43 | 40 | 40 | 37 | 32 | 32 | 33 | 35 | 29 | 33 |
| | 14 | 62 | 59 | 49 | 46 | 46 | 38 | 41 | 38 | 35 | 35 | 37 | 40 | 34 | 32 |
| | 15 | 44 | 43 | 38 | 41 | 39 | 37 | 34 | 32 | 26 | 21 | 24 | 24 | 27 | 26 |
| | Mean ±S.D. | 53.0 6.5 | 48.2 7.0 | 45.2 4.8 | 41.8 3.3 | 41.0 3.4 | 39.0 2.5 | 37.8 2.9 | 36.2 2.8 | 31.0 3.2 | 31.2 5.8 | 31.2 4.7 | 33.2 5.9 | 29.6 2.7 | 31.2 3.8 |

Note) ALT : Alanine transaminase

Not significantly different from Group 1.

Table 6-3

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | ALP (IU/L) | | | | | | | | | | | | | |
|-------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 332 | 573 | 551 | 540 | 486 | 478 | 480 | 400 | 265 | 351 | 304 | 343 | 284 | 174 |
| | 5 | 848 | 830 | 735 | 673 | 817 | 682 | 741 | 640 | 556 | 585 | 518 | 577 | 524 | 471 |
| | 16 | 805 | 797 | 838 | 875 | 840 | 713 | 604 | 585 | 615 | 485 | 518 | 426 | 376 | 374 |
| | 17 | 673 | 572 | 540 | 515 | 549 | 498 | 491 | 371 | 420 | 392 | 450 | 317 | 313 | 288 |
| | Mean ±S.D. | 664.5 233.8 | 693.0 139.8 | 666.0 145.4 | 650.8 164.8 | 673.0 181.6 | 592.8 121.9 | 579.0 121.7 | 499.0 133.5 | 464.0 155.8 | 453.3 104.2 | 447.5 100.9 | 415.8 117.1 | 374.3 107.0 | 326.8 126.3 |
| 2 | 6 | 446 | 527 | 565 | 546 | 549 | 569 | 493 | 383 | 343 | 372 | 330 | 284 | 214 | 308 |
| | 7 | 634 | 648 | 845 | 716 | 760 | 660 | 790 | 582 | 663 | 681 | 571 | 562 | 471 | 389 |
| | 8 | 940 | 787 | 903 | 737 | 801 | 852 | 938 | 702 | 595 | 488 | 387 | 378 | 413 | |
| | 9 | 628 | 676 | 734 | 787 | 707 | 779 | 741 | 727 | 706 | 639 | 656 | 621 | 529 | 417 |
| | 10 | 519 | 634 | 721 | 709 | 724 | 531 | 509 | 492 | 512 | 473 | 312 | 333 | 314 | 283 |
| | Mean ±S.D. | 633.4 188.6 | 654.4 93.2 | 753.6 130.1 | 699.0 90.8 | 708.2 96.0 | 678.2 136.3 | 694.2 190.8 | 577.2 144.1 | 563.8 143.6 | 530.6 127.1 | 451.2 153.7 | 435.6 147.6 | 388.2 125.6 | 349.3 63.9 |
| 3 | 11 | 678 | 659 | 749 | 674 | 850 | 846 | 754 | 659 | 666 | 606 | 529 | 479 | 376 | 378 |
| | 12 | 1098 | 795 | 1162 | 927 | 1080 | 1210 | 1191 | 862 | 890 | 750 | 729 | 941 | 585 | 593 |
| | 13 | 602 | 517 | 773 | 663 | 681 | 736 | 797 | 647 | 649 | 729 | 705 | 484 | 487 | 405 |
| | 14 | 591 | 629 | 816 | 708 | 645 | 592 | 673 | 561 | 526 | 583 | 497 | 454 | 454 | 375 |
| | 15 | 554 | 624 | 703 | 643 | 608 | 579 | 599 | 402 | 356 | 209 | 208 | 223 | 208 | 167 |
| | Mean ±S.D. | 704.6 224.5 | 644.8 99.7 | 840.6 184.3 | 723.0 116.4 | 772.8 195.1 | 792.6 257.9 | 802.8 229.9 | 626.2 167.1 | 617.4 196.4 | 575.4 217.6 | 533.6 209.1 | 516.2 261.1 | 422.0 141.2 | 383.6 151.1 |

Note) ALP : Alkaline phosphatase

Not significantly different from Group 1.

Table 6-4

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | LDH (IU/L) | | | | | | | | | | | | | |
|-------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|----------------|---------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 417 | 517 | 480 | 468 | 446 | 476 | 447 | 437 | 383 | 391 | 453 | 429 | 413 | 316 |
| | 5 | 521 | 511 | 507 | 496 | 493 | 798 | 589 | 506 | 520 | 410 | 423 | 433 | 518 | 461 |
| | 16 | 721 | 509 | 479 | 479 | 494 | 447 | 424 | 433 | 458 | 448 | 509 | 429 | 405 | 549 |
| | 17 | 686 | 568 | 650 | 538 | 586 | 471 | 498 | 445 | 523 | 489 | 522 | 455 | 492 | 460 |
| | Mean ±S.D. | 586.3 142.6 | 526.3 28.0 | 529.0 81.7 | 495.3 30.7 | 504.8 58.6 | 548.0 167.1 | 489.5 73.2 | 455.3 34.2 | 471.0 65.9 | 434.5 43.4 | 476.8 46.7 | 436.5 12.5 | 457.0 56.5 | 446.5 96.5 |
| 2 | 6 | 525 | 567 | 503 | 531 | 448 | 1041 | 489 | 507 | 437 | 515 | 705 | 385 | 356 | 384 |
| | 7 | 431 | 449 | 554 | 478 | 478 | 510 | 474 | 471 | 430 | 466 | 480 | 472 | 406 | 348 |
| | 8 | 512 | 491 | 538 | 469 | 486 | 479 | 490 | 509 | 436 | 487 | 525 | 560 | 535 | |
| | 9 | 449 | 756 | 472 | 578 | 448 | 614 | 551 | 495 | 721 | 576 | 418 | 464 | 559 | 450 |
| | 10 | 447 | 471 | 514 | 502 | 662 | 526 | 451 | 422 | 469 | 410 | 456 | 437 | 339 | 318 |
| | Mean ±S.D. | 472.8 42.5 | 546.8 125.1 | 516.2 31.8 | 511.6 44.2 | 504.4 89.8 | 634.0 233.0 | 491.0 37.1 | 480.8 36.2 | 498.6 125.3 | 490.8 61.2 | 516.8 112.1 | 463.6 63.7 | 439.0 102.0 | 375.0 56.8 |
| 3 | 11 | 457 | 445 | 473 | 512 | 429 | 462 | 397 | 418 | 452 | 403 | 390 | 476 | 332 | 367 |
| | 12 | 478 | 449 | 533 | 457 | 546 | 611 | 571 | 521 | 509 | 498 | 450 | 579 | 361 | 400 |
| | 13 | 500 | 497 | 501 | 478 | 444 | 532 | 470 | 508 | 498 | 484 | 547 | 634 | 466 | 462 |
| | 14 | 477 | 586 | 490 | 454 | 461 | 453 | 466 | 493 | 462 | 452 | 467 | 515 | 408 | 383 |
| | 15 | 453 | 525 | 669 | 615 | 563 | 1290 | 590 | 537 | 435 | 380 | 351 | 335 | 337 | 328 |
| | Mean ±S.D. | 473.0 18.9 | 500.4 58.4 | 533.2 79.0 | 503.2 66.6 | 488.6 61.5 | 669.6 352.6 | 498.8 80.3 | 495.4 46.2 | 471.2 31.3 | 443.4 50.9 | 441.0 75.3 | 507.8 113.9 | 380.8* 56.3 | 388.0 49.2 |

Note) LDH : Lactate dehydrogenase

* P<0.05 : Significantly different from Group 1.

Table 6-5

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | GGT (IU/L) | | | | | | | | | | | | | |
|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|---------------|--------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 51 | 47 | 44 | 49 | 73 | 65 | 44 | 53 | 46 | 56 | 48 | 44 | 94 | 50 |
| | 5 | 30 | 32 | 29 | 30 | 29 | 30 | 33 | 30 | 31 | 33 | 30 | 33 | 35 | 36 |
| | 16 | 45 | 61 | 55 | 59 | 67 | 66 | 66 | 59 | 58 | 58 | 71 | 51 | 58 | 63 |
| | 17 | 59 | 65 | 72 | 71 | 81 | 48 | 55 | 45 | 44 | 50 | 54 | 49 | 64 | 42 |
| | Mean ±S.D. | 46.3 12.3 | 51.3 15.0 | 50.0 18.1 | 52.3 17.3 | 62.5 23.1 | 52.3 17.0 | 49.5 14.2 | 46.8 12.6 | 44.8 11.1 | 49.3 11.4 | 50.8 16.9 | 44.3 8.1 | 62.8 24.3 | 47.8 11.7 |
| 2 | 6 | 52 | 49 | 51 | 58 | 64 | 85 | 77 | 72 | 102 | 76 | 65 | 62 | 70 | 62 |
| | 7 | 43 | 44 | 50 | 47 | 52 | 52 | 50 | 48 | 50 | 57 | 57 | 60 | 56 | 56 |
| | 8 | 57 | 55 | 61 | 54 | 74 | 60 | 65 | 57 | 56 | 60 | 52 | 52 | 48 | |
| | 9 | 57 | 59 | 57 | 70 | 79 | 63 | 80 | 63 | 79 | 82 | 73 | 91 | 106 | 89 |
| | 10 | 35 | 32 | 32 | 32 | 55 | 41 | 33 | 34 | 40 | 39 | 40 | 38 | 44 | 38 |
| Mean ±S.D. | 48.8 9.6 | 47.8 10.5 | 50.2 11.1 | 52.2 14.0 | 64.8 11.7 | 60.2 16.3 | 61.0 19.6 | 54.8 14.5 | 65.4 25.0 | 62.8 17.0 | 57.4 12.6 | 60.6 19.4 | 64.8 25.1 | 61.3 21.1 | |
| 3 | 11 | 56 | 47 | 59 | 71 | 65 | 66 | 61 | 68 | 81 | 78 | 79 | 80 | 86 | 117 |
| | 12 | 70 | 59 | 69 | 59 | 76 | 69 | 65 | 67 | 69 | 74 | 75 | 76 | 98 | 83 |
| | 13 | 57 | 51 | 49 | 64 | 61 | 64 | 64 | 63 | 60 | 54 | 59 | 67 | 81 | 81 |
| | 14 | 47 | 52 | 44 | 42 | 46 | 50 | 50 | 61 | 67 | 54 | 59 | 51 | 55 | 58 |
| | 15 | 45 | 42 | 49 | 54 | 51 | 61 | 52 | 54 | 59 | 53 | 53 | 51 | 53 | 50 |
| Mean ±S.D. | 55.0 9.9 | 50.2 6.3 | 54.0 10.0 | 58.0 10.9 | 59.8 11.8 | 62.0 7.3 | 58.4 6.9 | 62.6* 5.6 | 67.2** 8.8 | 62.6 12.3 | 65.0 11.3 | 65.0* 13.6 | 74.6 19.8 | 77.8* 26.2 | |

Note) GGT : Gamma - glutamyltransferase

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

Table 6-6

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | CK (IU/L) | | | | | | | | | | | | | |
|-------|------------|--------------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|--------|-------|-------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 321 | 804 | 468 | 827 | 365 | 617 | 896 | 603 | 261 | 419 | 1141 | 619 | 578 | 226 |
| | 5 | 298 | 342 | 793 | 496 | 332 | 2877 | 1770 | 674 | 421 | 410 | 462 | 486 | 1153 | 319 |
| | 16 | 1471 | 289 | 353 | 287 | 609 | 315 | 562 | 489 | 372 | 404 | 1360 | 388 | 349 | 1394 |
| | 17 | 790 | 374 | 1435 | 518 | 739 | 423 | 747 | 469 | 853 | 487 | 1029 | 861 | 754 | 618 |
| | Mean | 720.0 | 452.3 | 762.3 | 532.0 | 511.3 | 1058.0 | 993.8 | 558.8 | 476.8 | 430.0 | 998.0 | 588.5 | 708.5 | 639.3 |
| | ±S.D. | 549.6 | 237.1 | 485.7 | 222.5 | 195.7 | 1219.1 | 535.2 | 96.9 | 259.6 | 38.5 | 382.9 | 204.9 | 339.6 | 530.2 |
| 2 | 6 | 218 | 711 | 391 | 694 | 365 | 3784 | 684 | 821 | 422 | 1552 | 3347 | 373 | 460 | 381 |
| | 7 | 195 | 300 | 250 | 368 | 258 | 627 | 494 | 454 | 346 | 497 | 865 | 927 | 493 | 415 |
| | 8 | 227 | 266 | 480 | 245 | 199 | 253 | 401 | 336 | 212 | 265 | 279 | 267 | 179 | |
| | 9 | 280 | 2850 | 311 | 1101 | 300 | 1269 | 1056 | 1180 | 2475 | 1619 | 774 | 1436 | 2120 | 1083 |
| | 10 | 242 | 500 | 332 | 443 | 926 | 945 | 704 | 462 | 607 | 614 | 1452 | 1007 | 609 | 262 |
| | Mean | 232.4 | 925.4 | 352.8 | 570.2 | 409.6 | 1375.6 | 667.8 | 650.6 | 812.4 | 909.4 | 1343.4 | 802.0 | 772.2 | 535.3 |
| | ±S.D. | 31.6 | 1090.5 | 87.2 | 339.1 | 295.0 | 1398.0 | 251.8 | 347.3 | 940.3 | 630.3 | 1195.0 | 482.1 | 769.8 | 371.0 |
| 3 | 11 | 275 | 373 | 484 | 621 | 293 | 588 | 407 | 844 | 964 | 584 | 589 | 1057 | 338 | 414 |
| | 12 | 358 | 489 | 460 | 343 | 773 | 959 | 1012 | 730 | 890 | 805 | 440 | 1193 | 222 | 324 |
| | 13 | 298 | 297 | 288 | 537 | 263 | 699 | 503 | 791 | 804 | 630 | 1286 | 2522 | 1016 | 1062 |
| | 14 | 317 | 1192 | 344 | 295 | 269 | 369 | 502 | 562 | 461 | 673 | 616 | 1340 | 324 | 336 |
| | 15 | 330 | 557 | 1696 | 692 | 318 | 5811 | 1437 | 1454 | 351 | 307 | 407 | 315 | 237 | 247 |
| | Mean | 315.6 | 581.6 | 654.4 | 497.6 | 383.2 | 1685.2 | 772.2 | 876.2 | 694.0 | 599.8 | 667.6 | 1285.4 | 427.4 | 476.6 |
| | ±S.D. | 31.5 | 355.8 | 587.9 | 172.9 | 219.0 | 2316.2 | 441.1 | 339.9 | 271.7 | 183.3 | 357.4 | 796.0 | 333.0 | 332.6 |

Note) CK : Creatine kinase

Not significantly different from Group 1.

Table 6-7

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | Amylase (IU/L) | | | | | | | | | | | | | |
|---------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 5337 | 5537 | 5276 | 4617 | 4998 | 4817 | 4493 | 4822 | 3740 | 4487 | 5087 | 5433 | 4852 | 3851 |
| | 5 | 3717 | 4089 | 3531 | 3562 | 3676 | 3481 | 3529 | 3606 | 3444 | 3579 | 3653 | 3924 | 3467 | 3340 |
| | 16 | 5124 | 6136 | 6026 | 6053 | 6085 | 6486 | 6078 | 7139 | 6667 | 6522 | 6663 | 6550 | 6597 | 6738 |
| | 17 | 6125 | 6770 | 6402 | 6365 | 6153 | 6335 | 6307 | 5781 | 6126 | 6756 | 6212 | 6323 | 6287 | 5790 |
| | Mean ±S.D. | 5075.8 1002.9 | 5633.0 1145.9 | 5308.8 1274.2 | 5149.3 1303.5 | 5228.0 1162.1 | 5279.8 1416.4 | 5101.8 1322.9 | 5337.0 1495.1 | 4994.3 1638.6 | 5336.0 1552.5 | 5403.8 1342.2 | 5557.5 1190.9 | 5300.8 1439.6 | 4929.8 1602.2 |
| 2 | 6 | 5285 | 4820 | 4684 | 4381 | 4895 | 4666 | 4508 | 4941 | 4591 | 4573 | 4489 | 4441 | 3871 | 4271 |
| | 7 | 3771 | 3874 | 4291 | 4053 | 4448 | 4468 | 4529 | 4311 | 4299 | 4402 | 4560 | 4596 | 4196 | 4011 |
| | 8 | 4133 | 3926 | 3917 | 3389 | 3618 | 3754 | 3747 | 3743 | 3599 | 3631 | 3526 | 3551 | 3310 | |
| | 9 | 3952 | 4261 | 4434 | 4162 | 4252 | 4681 | 4425 | 4161 | 4336 | 4316 | 4301 | 4306 | 4054 | 4092 |
| | 10 | 3006 | 3054 | 3071 | 3198 | 3584 | 3109 | 3118 | 3588 | 3840 | 3413 | 3165 | 3309 | 3194 | 3253 |
| Mean ±S.D. | 4029.4 822.7 | 3987.0* 643.4 | 4079.4* 628.4 | 3836.6* 514.1 | 4159.4 560.6 | 4135.6 687.2 | 4065.4 620.3 | 4148.8 532.3 | 4133.0 403.0 | 4067.0 511.9 | 4008.2* 625.5 | 4040.6* 573.2 | 3725.0 448.8 | 3906.8 449.2 | |
| 3 | 11 | 5683 | 4701 | 4636 | 4255 | 5191 | 5186 | 4989 | 4743 | 4642 | 4982 | 4857 | 4776 | 4491 | 4599 |
| | 12 | 4318 | 3575 | 4379 | 3833 | 4187 | 4643 | 4470 | 4369 | 4310 | 4559 | 4242 | 4959 | 4056 | 5118 |
| | 13 | 3747 | 3591 | 3574 | 3814 | 3902 | 4046 | 4078 | 3981 | 3877 | 4304 | 4440 | 3684 | 3865 | 3833 |
| | 14 | 3015 | 3042 | 3003 | 3095 | 3273 | 2942 | 3296 | 3371 | 3265 | 3451 | 3309 | 3320 | 3394 | 3223 |
| | 15 | 2874 | 2981 | 2970 | 3008 | 3136 | 2714 | 3059 | 2840 | 2915 | 2646 | 2769 | 2755 | 2697 | 2570 |
| Mean ±S.D. | 3927.4 1141.2 | 3578.0** 690.1 | 3712.4* 769.9 | 3601.0* 532.6 | 3937.8* 824.4 | 3906.2 1066.7 | 3978.4 803.7 | 3860.8* 763.7 | 3801.8 714.9 | 3988.4 935.9 | 3923.4* 858.8 | 3898.8* 946.4 | 3700.6* 685.4 | 3868.6 1024.6 | |

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

Table 6-8

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | T-Bil (mg/dL) | | | | | | | | | | | | | |
|-------|---------------|------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 0.03 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.03 | 0.02 | 0.09 | 0.03 | 0.00 | 0.04 |
| | 5 | 0.00 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.05 | 0.04 | 0.01 | 0.03 |
| | 16 | 0.09 | 0.04 | 0.05 | 0.02 | 0.00 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.00 | 0.04 | 0.04 | 0.01 |
| | 17 | 0.00 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 |
| | Mean ±S.D. | 0.030 0.042 | 0.053 0.022 | 0.023 0.019 | 0.005 0.010 | 0.000 0.000 | 0.003 0.005 | 0.018 0.015 | 0.018 0.015 | 0.015 0.017 | 0.018 0.013 | 0.035 0.044 | 0.028 0.019 | 0.013 0.019 | 0.023 0.015 |
| 2 | 6 | 0.03 | 0.07 | 0.04 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.04 | 0.03 | 0.03 | 0.01 |
| | 7 | 0.00 | 0.08 | 0.02 | 0.01 | 0.03 | 0.01 | 0.03 | 0.02 | 0.03 | 0.00 | 0.04 | 0.02 | 0.00 | 0.02 |
| | 8 | 0.00 | 0.05 | 0.02 | 0.02 | 0.00 | 0.01 | 0.00 | 0.03 | 0.05 | 0.03 | 0.05 | 0.02 | 0.02 | 0.02 |
| | 9 | 0.00 | 0.04 | 0.06 | 0.00 | 0.02 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.01 |
| | 10 | 0.00 | 0.08 | 0.03 | 0.04 | 0.02 | 0.00 | 0.03 | 0.03 | 0.01 | 0.02 | 0.03 | 0.04 | 0.02 | 0.02 |
| | Mean ±S.D. | 0.006 0.013 | 0.064 0.018 | 0.034 0.017 | 0.016 0.015 | 0.014* 0.013 | 0.006 0.005 | 0.014 0.015 | 0.020 0.010 | 0.020 0.020 | 0.010 0.014 | 0.036 0.011 | 0.028 0.008 | 0.018 0.011 | 0.015 0.006 |
| 3 | 11 | 0.01 | 0.04 | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 |
| | 12 | 0.00 | 0.17 | 0.03 | 0.10 | 0.29 | 0.02 | 0.09 | 0.02 | 0.02 | 0.00 | 0.03 | 0.02 | 0.04 | 0.01 |
| | 13 | 0.00 | 0.09 | 0.04 | 0.00 | 0.02 | 0.00 | 0.02 | 0.01 | 0.02 | 0.02 | 0.03 | 0.00 | 0.00 | 0.00 |
| | 14 | 0.01 | 0.08 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.01 | 0.02 | 0.03 | 0.03 | 0.12 | 0.03 | 0.03 |
| | 15 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.02 | 0.06 | 0.09 | 0.14 | 0.08 | 0.09 |
| | Mean ±S.D. | 0.006 0.005 | 0.086 0.051 | 0.024 0.018 | 0.030 0.045 | 0.070 0.124 | 0.016 0.015 | 0.038 0.030 | 0.012 0.008 | 0.016 0.009 | 0.022 0.025 | 0.036 0.033 | 0.058 0.066 | 0.030 0.033 | 0.028 0.036 |

Note) T-Bil : Total bilirubin

* P<0.05 : Significantly different from Group 1.

Table 6-9

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | D-Bil (mg/dL) | | | | | | | | | | | | | |
|-------|---------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 0.04 | 0.07 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 | 0.07 | 0.04 | 0.02 | 0.04 |
| | 5 | 0.01 | 0.04 | 0.02 | 0.03 | 0.02 | 0.02 | 0.04 | 0.05 | 0.02 | 0.02 | 0.05 | 0.04 | 0.02 | 0.03 |
| | 16 | 0.07 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 0.05 | 0.04 | 0.04 | 0.02 | 0.04 | 0.05 | 0.04 |
| | 17 | 0.01 | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.03 | 0.02 |
| | Mean ±S.D. | 0.033 0.029 | 0.045 0.017 | 0.025 0.010 | 0.023 0.010 | 0.020 0.008 | 0.020 0.008 | 0.030 0.014 | 0.040 0.012 | 0.030 0.012 | 0.028 0.010 | 0.038 0.028 | 0.033 0.015 | 0.030 0.014 | 0.033 0.010 |
| 2 | 6 | 0.03 | 0.06 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.05 | 0.04 | 0.04 | 0.03 |
| | 7 | 0.01 | 0.06 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.02 | 0.03 |
| | 8 | 0.01 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 |
| | 9 | 0.01 | 0.04 | 0.05 | 0.03 | 0.04 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.04 |
| | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.02 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 |
| | Mean ±S.D. | 0.014 0.009 | 0.050 0.010 | 0.032 0.011 | 0.028 0.004 | 0.028 0.008 | 0.022 0.004 | 0.024 0.005 | 0.030 0.000 | 0.028 0.008 | 0.024 0.005 | 0.038 0.008 | 0.032 0.008 | 0.032 0.013 | 0.033 0.005 |
| 3 | 11 | 0.02 | 0.03 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 |
| | 12 | 0.01 | 0.11 | 0.03 | 0.06 | 0.13 | 0.02 | 0.05 | 0.03 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 |
| | 13 | 0.01 | 0.06 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 |
| | 14 | 0.02 | 0.05 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.03 | 0.03 | 0.07 | 0.03 | 0.04 |
| | 15 | 0.01 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.05 | 0.07 | 0.10 | 0.05 |
| | Mean ±S.D. | 0.014 0.005 | 0.058 0.031 | 0.024 0.009 | 0.028 0.019 | 0.046 0.047 | 0.020 0.007 | 0.028 0.013 | 0.026* 0.005 | 0.022 0.004 | 0.030 0.012 | 0.036 0.019 | 0.050 0.034 | 0.032 0.013 | 0.038 0.019 |

Note) D-Bil : Direct bilirubin

* P<0.05 : Significantly different from Group 1.

Table 6-10

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | TP (g/dL) | | | | | | | | | | | | | |
|---------------|---------------|--------------|--------------|--------------|--------------|---------------|--------------|----------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 7.1 | 7.3 | 7.0 | 7.0 | 7.6 | 7.6 | 7.6 | 7.6 | 7.5 | 7.3 | 7.4 | 7.5 | 7.5 | 7.6 |
| | 5 | 6.9 | 7.1 | 6.5 | 7.1 | 7.5 | 7.0 | 7.0 | 7.2 | 7.4 | 7.4 | 7.4 | 8.0 | 7.8 | 7.5 |
| | 16 | 5.8 | 6.4 | 6.0 | 6.1 | 5.9 | 6.8 | 6.8 | 7.2 | 8.0 | 8.1 | 8.5 | 8.2 | 8.0 | 8.3 |
| | 17 | 6.7 | 6.8 | 6.9 | 7.7 | 7.1 | 7.4 | 7.9 | 7.5 | 7.6 | 8.0 | 8.3 | 8.2 | 8.1 | 7.7 |
| | Mean ±S.D. | 6.63 0.57 | 6.90 0.39 | 6.60 0.45 | 6.98 0.66 | 7.03 0.78 | 7.20 0.37 | 7.33 0.51 | 7.38 0.21 | 7.63 0.26 | 7.70 0.41 | 7.90 0.58 | 7.98 0.33 | 7.85 0.26 | 7.78 0.36 |
| 2 | 6 | 7.3 | 6.8 | 6.5 | 6.4 | 7.2 | 6.9 | 7.1 | 7.1 | 7.3 | 7.6 | 7.5 | 8.2 | 7.9 | 7.9 |
| | 7 | 7.2 | 7.1 | 7.9 | 7.2 | 7.3 | 7.1 | 7.0 | 7.0 | 6.8 | 7.0 | 7.2 | 7.1 | 7.6 | 7.5 |
| | 8 | 6.8 | 7.1 | 7.2 | 7.1 | 7.2 | 7.2 | 7.4 | 7.4 | 7.3 | 7.6 | 7.2 | 7.2 | 7.1 | 7.6 |
| | 9 | 6.6 | 6.7 | 6.9 | 6.7 | 7.1 | 7.0 | 7.3 | 6.6 | 7.0 | 7.3 | 7.1 | 7.3 | 7.3 | 7.6 |
| | 10 | 6.7 | 6.7 | 6.4 | 6.4 | 6.7 | 6.7 | 6.4 | 6.5 | 7.9 | 6.8 | 7.2 | 7.1 | 7.4 | 7.4 |
| Mean ±S.D. | 6.92 0.31 | 6.88 0.20 | 6.98 0.61 | 6.76 0.38 | 7.10 0.23 | 6.98 0.19 | 7.04 0.39 | 6.92* 0.37 | 7.26 0.42 | 7.26 0.36 | 7.24 0.15 | 7.38* 0.47 | 7.46* 0.30 | 7.60 0.22 | |
| 3 | 11 | 7.2 | 6.7 | 6.7 | 6.5 | 7.2 | 6.9 | 6.7 | 6.3 | 6.8 | 7.4 | 7.5 | 7.4 | 7.5 | 8.1 |
| | 12 | 7.0 | 6.6 | 7.6 | 6.7 | 6.9 | 7.0 | 6.5 | 7.1 | 7.0 | 7.8 | 7.5 | 7.9 | 7.6 | 7.4 |
| | 13 | 7.0 | 7.1 | 6.8 | 7.0 | 6.7 | 6.7 | 6.9 | 6.6 | 6.7 | 6.9 | 7.4 | 7.2 | 7.2 | 7.6 |
| | 14 | 6.8 | 7.2 | 6.6 | 6.3 | 6.7 | 6.8 | 7.1 | 6.9 | 7.6 | 7.8 | 7.8 | 7.0 | 7.9 | 8.1 |
| | 15 | 6.6 | 6.8 | 6.5 | 6.5 | 6.9 | 6.4 | 7.2 | 7.0 | 7.6 | 8.0 | 7.8 | 7.6 | 7.7 | 7.6 |
| Mean ±S.D. | 6.92 0.23 | 6.88 0.26 | 6.84 0.44 | 6.60 0.26 | 6.94 0.18 | 6.76* 0.23 | 6.88 0.29 | 6.78** 0.33 | 7.14* 0.43 | 7.58 0.44 | 7.60 0.19 | 7.42* 0.35 | 7.58 0.26 | 7.76 0.32 | |

Note) TP : Total protein

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

Table 6-11

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | Albumin (g/dL) | | | | | | | | | | | | | |
|-------|---------------|-------------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 4.7 | 4.6 | 4.4 | 4.6 | 4.6 | 4.2 | 4.2 | 4.6 | 4.5 | 4.5 | 4.4 | 4.2 | 4.3 | 4.5 |
| | 5 | 4.4 | 5.0 | 4.4 | 4.4 | 4.9 | 4.8 | 4.6 | 4.9 | 4.8 | 4.7 | 4.9 | 5.2 | 5.1 | 4.7 |
| | 16 | 4.4 | 4.9 | 4.4 | 4.5 | 4.4 | 5.0 | 5.0 | 5.3 | 5.7 | 5.8 | 6.1 | 5.6 | 5.5 | 5.7 |
| | 17 | 5.1 | 5.0 | 4.9 | 5.4 | 5.0 | 5.0 | 5.2 | 4.9 | 5.0 | 5.3 | 5.6 | 5.4 | 5.3 | 5.0 |
| | Mean ±S.D. | 4.65 0.33 | 4.88 0.19 | 4.53 0.25 | 4.73 0.46 | 4.73 0.28 | 4.75 0.38 | 4.75 0.44 | 4.93 0.29 | 5.00 0.51 | 5.08 0.59 | 5.25 0.75 | 5.10 0.62 | 5.05 0.53 | 4.98 0.53 |
| 2 | 6 | 4.9 | 4.5 | 4.3 | 4.1 | 4.3 | 4.3 | 4.4 | 4.7 | 4.9 | 5.0 | 4.9 | 5.1 | 4.9 | 4.8 |
| | 7 | 4.6 | 4.6 | 4.9 | 4.5 | 4.8 | 4.7 | 4.3 | 4.3 | 4.4 | 4.6 | 4.8 | 4.7 | 5.0 | 5.0 |
| | 8 | 4.4 | 4.7 | 4.8 | 4.3 | 4.5 | 4.7 | 4.6 | 4.6 | 4.5 | 4.6 | 4.3 | 4.1 | 4.2 | |
| | 9 | 4.7 | 5.0 | 5.0 | 4.8 | 5.0 | 4.9 | 4.8 | 4.4 | 4.7 | 4.8 | 4.6 | 4.8 | 4.8 | 5.0 |
| | 10 | 4.5 | 4.5 | 4.3 | 4.1 | 4.4 | 4.3 | 3.9 | 4.0 | 4.7 | 4.2 | 4.6 | 4.4 | 4.8 | 4.8 |
| | Mean ±S.D. | 4.62 0.19 | 4.66 0.21 | 4.66 0.34 | 4.36 0.30 | 4.60 0.29 | 4.58 0.27 | 4.40 0.34 | 4.40* 0.27 | 4.64 0.19 | 4.64 0.30 | 4.64 0.23 | 4.62 0.38 | 4.74 0.31 | 4.90 0.12 |
| 3 | 11 | 4.6 | 4.4 | 4.2 | 3.7 | 3.9 | 3.9 | 3.6 | 3.6 | 3.9 | 4.4 | 4.4 | 4.5 | 4.6 | 5.0 |
| | 12 | 4.4 | 4.3 | 4.9 | 4.3 | 4.5 | 4.1 | 3.7 | 4.2 | 4.2 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 |
| | 13 | 4.8 | 4.9 | 4.6 | 4.6 | 4.5 | 4.4 | 4.2 | 4.2 | 4.2 | 4.3 | 4.6 | 4.5 | 4.8 | 5.1 |
| | 14 | 5.0 | 5.3 | 4.8 | 4.7 | 4.9 | 4.8 | 4.8 | 5.0 | 5.3 | 5.3 | 5.5 | 5.0 | 5.5 | 5.6 |
| | 15 | 4.6 | 4.2 | 4.0 | 4.1 | 4.5 | 4.2 | 4.5 | 4.4 | 4.7 | 4.7 | 4.8 | 4.7 | 4.8 | 4.7 |
| | Mean ±S.D. | 4.68 0.23 | 4.62 0.47 | 4.50 0.39 | 4.28 0.40 | 4.46 0.36 | 4.28* 0.34 | 4.16 0.51 | 4.28* 0.50 | 4.46 0.55 | 4.72 0.40 | 4.84 0.42 | 4.72 0.23 | 4.90 0.35 | 5.00 0.39 |

* P<0.05 : Significantly different from Group 1.

Table 6-12 Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | TG (mg/dL) | | | | | | | | | | | | | |
|---------------|---------------|---------------|--------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 28 | 13 | 25 | 34 | 22 | 28 | 31 | 36 | 16 | 18 | 13 | 27 | 27 | 31 |
| | 5 | 53 | 18 | 46 | 26 | 27 | 46 | 48 | 19 | 25 | 34 | 28 | 47 | 53 | 60 |
| | 16 | 29 | 41 | 30 | 32 | 41 | 31 | 29 | 39 | 38 | 18 | 29 | 21 | 18 | 22 |
| | 17 | 21 | 24 | 26 | 26 | 32 | 19 | 33 | 43 | 22 | 19 | 37 | 20 | 14 | 13 |
| | Mean ±S.D. | 32.8 14.0 | 24.0 12.2 | 31.8 9.7 | 29.5 4.1 | 30.5 8.1 | 31.0 11.2 | 35.3 8.7 | 34.3 10.6 | 25.3 9.3 | 22.3 7.8 | 20.5 10.0 | 37.0 12.6 | 40.0 17.5 | 45.5 20.4 |
| 2 | 6 | 24 | 21 | 33 | 34 | 28 | 60 | 24 | 29 | 28 | 28 | 30 | 38 | 22 | 50 |
| | 7 | 39 | 14 | 28 | 25 | 33 | 21 | 21 | 21 | 29 | 38 | 19 | 28 | 27 | 37 |
| | 8 | 34 | 10 | 20 | 13 | 13 | 13 | 14 | 15 | 18 | 12 | 15 | 14 | 19 | |
| | 9 | 25 | 10 | 28 | 19 | 23 | 37 | 26 | 21 | 23 | 25 | 28 | 47 | 15 | 37 |
| | 10 | 53 | 19 | 33 | 30 | 22 | 32 | 40 | 37 | 38 | 42 | 22 | 19 | 52 | 51 |
| Mean ±S.D. | 35.0 11.9 | 14.8 5.1 | 28.4 5.3 | 24.2 8.4 | 23.8 7.5 | 32.6 18.0 | 25.0 9.5 | 24.6 8.5 | 27.2 7.5 | 29.0 11.8 | 22.8 6.2 | 29.2 13.5 | 27.0 14.6 | 43.8 7.8 | |
| 3 | 11 | 32 | 13 | 39 | 27 | 37 | 35 | 25 | 33 | 77 | 23 | 21 | 24 | 44 | 38 |
| | 12 | 42 | 12 | 34 | 35 | 19 | 18 | 25 | 30 | 26 | 19 | 34 | 37 | 33 | 29 |
| | 13 | 49 | 13 | 50 | 29 | 27 | 21 | 46 | 18 | 34 | 23 | 25 | 49 | 32 | 37 |
| | 14 | 42 | 15 | 26 | 24 | 24 | 31 | 16 | 21 | 22 | 23 | 22 | 25 | 44 | 34 |
| | 15 | 32 | 26 | 29 | 24 | 25 | 31 | 27 | 30 | 18 | 19 | 20 | 26 | 28 | 34 |
| Mean ±S.D. | 39.4 7.3 | 15.8 5.8 | 35.6 9.4 | 27.8 4.5 | 26.4 6.6 | 27.2 7.3 | 27.8 11.0 | 26.4 6.5 | 35.4 24.0 | 21.4 2.2 | 24.4 5.7 | 32.2 10.8 | 36.2 7.4 | 34.4 3.5 | |

Note) TG : Triglyceride

Not significantly different from Group 1.

Table 6-13

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | T-cho (mg/dL) | | | | | | | | | | | | | |
|-------|------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 50 | 54 | 56 | 69 | 55 | 53 | 55 | 57 | 54 | 52 | 43 | 47 | 50 | 49 |
| | 5 | 77 | 73 | 67 | 65 | 71 | 59 | 55 | 62 | 55 | 54 | 54 | 58 | 59 | 61 |
| | 16 | 65 | 71 | 58 | 59 | 59 | 70 | 60 | 61 | 63 | 66 | 68 | 75 | 67 | 68 |
| | 17 | 85 | 85 | 82 | 84 | 67 | 67 | 72 | 71 | 65 | 70 | 63 | 66 | 65 | 65 |
| | Mean | 69.3 | 70.8 | 65.8 | 69.3 | 63.0 | 62.3 | 60.5 | 62.8 | 59.3 | 60.5 | 48.5 | 52.5 | 54.5 | 55.0 |
| ±S.D. | 15.2 | 12.8 | 11.8 | 10.7 | 7.3 | 7.7 | 8.0 | 5.9 | 5.6 | 8.9 | 11.0 | 11.9 | 7.6 | 8.3 | |
| 2 | 6 | 65 | 101 | 104 | 95 | 107 | 106 | 99 | 100 | 104 | 90 | 89 | 87 | 79 | 88 |
| | 7 | 63 | 89 | 108 | 97 | 124 | 124 | 122 | 106 | 102 | 96 | 105 | 97 | 91 | 78 |
| | 8 | 67 | 110 | 134 | 113 | 130 | 106 | 114 | 119 | 104 | 117 | 118 | 114 | 112 | 89 |
| | 9 | 53 | 99 | 110 | 104 | 101 | 111 | 86 | 96 | 107 | 88 | 92 | 87 | 73 | 89 |
| | 10 | 72 | 127 | 138 | 148 | 160 | 132 | 115 | 141 | 163 | 127 | 95 | 100 | 91 | 83 |
| Mean | 64.0 | 105.2** | 118.8** | 111.4** | 124.4** | 115.8** | 107.2** | 112.4** | 116.0** | 103.6** | 99.8** | 97.0** | 89.2** | 84.5** | |
| ±S.D. | 7.0 | 14.3 | 15.9 | 21.6 | 23.2 | 11.7 | 14.5 | 18.2 | 26.3 | 17.4 | 11.8 | 11.2 | 14.9 | 5.1 | |
| 3 | 11 | 55 | 107 | 124 | 104 | 135 | 153 | 140 | 126 | 126 | 126 | 128 | 106 | 102 | 101 |
| | 12 | 57 | 115 | 169 | 172 | 177 | 170 | 177 | 166 | 165 | 169 | 130 | 119 | 85 | 107 |
| | 13 | 55 | 106 | 126 | 123 | 117 | 103 | 108 | 94 | 98 | 109 | 112 | 94 | 92 | 83 |
| | 14 | 67 | 153 | 178 | 164 | 180 | 180 | 185 | 158 | 181 | 158 | 154 | 121 | 130 | 125 |
| | 15 | 61 | 142 | 148 | 155 | 172 | 125 | 165 | 108 | 118 | 96 | 104 | 101 | 88 | 83 |
| Mean | 59.0 | 124.6** | 149.0** | 143.6** | 156.2** | 146.2** | 155.0** | 130.4** | 137.6** | 131.6** | 125.6** | 108.2** | 99.4** | 99.8** | |
| ±S.D. | 5.1 | 21.5 | 24.5 | 28.9 | 28.4 | 31.9 | 31.3 | 31.1 | 34.4 | 31.2 | 19.3 | 11.6 | 18.3 | 17.7 | |

Note) T-cho : Total cholesterol

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

Table 6-14

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | F-cho (mg/dL) | | | | | | | | | | | | | |
|---------------|---------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|---------------|---------------|-------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 12 | 12 | 13 | 15 | 12 | 13 | 13 | 14 | 12 | 12 | 10 | 11 | 12 | 11 |
| | 5 | 17 | 17 | 16 | 14 | 17 | 14 | 13 | 15 | 12 | 13 | 13 | 14 | 14 | 14 |
| | 16 | 16 | 17 | 14 | 14 | 14 | 17 | 14 | 15 | 15 | 16 | 19 | 34 | 16 | 16 |
| | 17 | 22 | 22 | 20 | 20 | 16 | 16 | 17 | 16 | 15 | 17 | 16 | 15 | 16 | 16 |
| | Mean ±S.D. | 16.8 4.1 | 17.0 4.1 | 15.8 3.1 | 15.8 2.9 | 14.8 2.2 | 15.0 1.8 | 14.3 1.9 | 15.0 0.8 | 13.5 1.7 | 14.5 2.4 | 14.5 3.9 | 18.5 10.5 | 14.5 1.9 | 14.3 2.4 |
| 2 | 6 | 16 | 23 | 23 | 20 | 24 | 24 | 22 | 22 | 23 | 20 | 21 | 19 | 17 | 20 |
| | 7 | 15 | 22 | 23 | 22 | 28 | 28 | 28 | 25 | 23 | 22 | 24 | 22 | 21 | 17 |
| | 8 | 15 | 25 | 30 | 24 | 29 | 23 | 26 | 27 | 24 | 27 | 28 | 27 | 25 | 19 |
| | 9 | 12 | 22 | 24 | 23 | 22 | 25 | 19 | 22 | 24 | 20 | 21 | 19 | 16 | 19 |
| | 10 | 18 | 30 | 31 | 33 | 36 | 30 | 26 | 32 | 37 | 29 | 22 | 23 | 20 | 18 |
| Mean ±S.D. | 15.2 2.2 | 24.4* 3.4 | 26.2** 4.0 | 24.4** 5.0 | 27.8** 5.4 | 26.0** 2.9 | 24.2** 3.6 | 25.6** 4.2 | 26.2** 6.1 | 23.6** 4.2 | 23.2** 2.9 | 22.0 3.3 | 19.8* 3.6 | 18.5** 1.3 | |
| 3 | 11 | 13 | 24 | 27 | 22 | 29 | 34 | 31 | 28 | 27 | 27 | 29 | 23 | 21 | 20 |
| | 12 | 13 | 26 | 38 | 39 | 41 | 38 | 43 | 38 | 39 | 37 | 29 | 27 | 18 | 22 |
| | 13 | 12 | 24 | 27 | 26 | 25 | 22 | 23 | 21 | 21 | 23 | 24 | 21 | 20 | 18 |
| | 14 | 16 | 36 | 43 | 39 | 42 | 42 | 44 | 38 | 43 | 37 | 36 | 29 | 29 | 28 |
| | 15 | 14 | 33 | 34 | 35 | 38 | 30 | 37 | 25 | 27 | 22 | 24 | 24 | 20 | 18 |
| Mean ±S.D. | 13.6 1.5 | 28.6** 5.5 | 33.8** 7.0 | 32.2** 7.8 | 35.0** 7.6 | 33.2** 7.7 | 35.6** 8.8 | 30.0** 7.7 | 31.4** 9.2 | 29.2** 7.4 | 28.4** 4.9 | 24.8 3.2 | 21.6** 4.3 | 21.2* 4.1 | |

Note) F-cho : Free cholesterol

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

Table 6-15

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | Glucose (mg/dL) | | | | | | | | | | | | | |
|---------------|---------------|--------------------|--------------|----------------|---------------|-----------------|---------------|----------------|---------------|--------------|--------------|---------------|----------------|---------------|--------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 111 | 71 | 76 | 97 | 98 | 70 | 108 | 84 | 91 | 76 | 64 | 101 | 79 | 100 |
| | 5 | 83 | 86 | 92 | 82 | 107 | 97 | 79 | 91 | 75 | 69 | 74 | 75 | 88 | 88 |
| | 16 | 106 | 84 | 86 | 78 | 95 | 87 | 96 | 87 | 106 | 87 | 117 | 100 | 84 | 118 |
| | 17 | 93 | 83 | 84 | 81 | 154 | 84 | 87 | 92 | 83 | 84 | 148 | 150 | 81 | 90 |
| | Mean ±S.D. | 98.3 12.7 | 81.0 6.8 | 84.5 6.6 | 84.5 8.5 | 113.5 27.5 | 84.5 11.2 | 92.5 12.4 | 88.5 3.7 | 88.8 13.2 | 79.0 8.1 | 100.8 39.0 | 106.5 31.4 | 83.0 3.9 | 99.0 13.7 |
| 2 | 6 | 83 | 86 | 86 | 92 | 120 | 112 | 98 | 94 | 97 | 95 | 130 | 113 | 96 | 100 |
| | 7 | 149 | 86 | 90 | 95 | 121 | 105 | 106 | 107 | 88 | 172 | 100 | 132 | 139 | 143 |
| | 8 | 98 | 79 | 97 | 97 | 83 | 111 | 95 | 92 | 78 | 77 | 82 | 100 | 86 | 86 |
| | 9 | 89 | 95 | 90 | 215 | 159 | 95 | 75 | 197 | 140 | 65 | 101 | 98 | 136 | 121 |
| | 10 | 98 | 76 | 95 | 100 | 119 | 107 | 111 | 92 | 100 | 83 | 85 | 72 | 89 | 88 |
| Mean ±S.D. | 103.4 26.3 | 84.4 7.4 | 91.6* 4.4 | 119.8 53.3 | 120.4 26.9 | 106.0** 6.8 | 97.0 13.8 | 116.4 45.5 | 100.6 23.6 | 98.4 42.5 | 99.6 19.0 | 103.0 22.0 | 109.2* 26.1 | 113.0 24.2 | |
| 3 | 11 | 129 | 86 | 101 | 203 | 116 | 97 | 80 | 254 | 162 | 78 | 80 | 92 | 92 | 128 |
| | 12 | 76 | 95 | 77 | 96 | 108 | 104 | 99 | 189 | 81 | 79 | 85 | 157 | 91 | 96 |
| | 13 | 93 | 81 | 86 | 112 | 145 | 109 | 125 | 166 | 104 | 89 | 112 | 179 | 117 | 133 |
| | 14 | 88 | 85 | 101 | 86 | 92 | 108 | 125 | 119 | 84 | 96 | 125 | 90 | 116 | 106 |
| | 15 | 81 | 110 | 127 | 167 | 121 | 132 | 159 | 143 | 119 | 80 | 85 | 75 | 68 | 81 |
| Mean ±S.D. | 93.4 20.9 | 91.4 11.6 | 98.4 19.0 | 132.8* 50.2 | 116.4 19.4 | 110.0** 13.2 | 117.6 29.9 | 174.2* 51.7 | 110.0 32.9 | 84.4 7.8 | 97.4 19.9 | 118.6 46.2 | 96.8 20.4 | 108.8 21.8 | |

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

Table 6-16

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | UN (mg/dL) | | | | | | | | | | | | | |
|-------|---------------|----------------|--------------|--------------|--------------|--------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 13.5 | 8.2 | 8.6 | 9.4 | 8.2 | 9.7 | 12.2 | 9.1 | 7.0 | 8.4 | 11.7 | 12.6 | 11.8 | 8.9 |
| | 5 | 11.3 | 10.5 | 12.7 | 10.3 | 9.2 | 11.1 | 13.8 | 11.9 | 11.0 | 13.1 | 15.5 | 17.0 | 20.6 | 17.8 |
| | 16 | 9.7 | 6.2 | 5.4 | 7.0 | 7.5 | 8.2 | 10.5 | 14.2 | 15.0 | 12.4 | 11.8 | 13.6 | 12.8 | 14.6 |
| | 17 | 10.2 | 8.3 | 10.7 | 11.9 | 11.9 | 14.7 | 14.0 | 12.9 | 12.2 | 14.0 | 11.9 | 14.4 | 12.7 | 13.3 |
| | Mean ±S.D. | 11.18 1.69 | 8.30 1.76 | 9.35 3.12 | 9.65 2.05 | 9.20 1.93 | 10.93 2.78 | 12.63 1.63 | 12.03 2.17 | 11.30 3.32 | 11.98 2.47 | 12.73 1.85 | 14.40 1.88 | 14.48 4.11 | 13.65 3.69 |
| 2 | 6 | 16.4 | 7.5 | 7.1 | 5.3 | 4.5 | 6.8 | 6.1 | 7.6 | 7.3 | 7.9 | 8.4 | 6.4 | 5.4 | 9.3 |
| | 7 | 15.9 | 7.8 | 7.5 | 10.8 | 8.0 | 7.8 | 8.7 | 7.4 | 7.0 | 8.4 | 7.2 | 7.5 | 8.1 | 9.5 |
| | 8 | 12.2 | 7.4 | 7.7 | 8.7 | 8.2 | 10.2 | 11.3 | 8.4 | 12.2 | 15.2 | 19.6 | 22.7 | 19.2 | |
| | 9 | 14.2 | 9.6 | 12.8 | 9.2 | 9.5 | 10.1 | 10.1 | 8.5 | 9.2 | 9.4 | 7.7 | 7.8 | 9.3 | 8.3 |
| | 10 | 10.9 | 6.6 | 6.9 | 8.5 | 7.8 | 7.6 | 7.6 | 7.4 | 7.8 | 6.1 | 7.0 | 6.5 | 6.4 | 6.5 |
| | Mean ±S.D. | 13.92* 2.36 | 7.78 1.11 | 8.40 2.48 | 8.50 2.00 | 7.60 1.86 | 8.50 1.55 | 8.76** 2.04 | 7.86* 0.55 | 8.70 2.13 | 9.40 3.46 | 9.98 5.40 | 10.18 7.03 | 9.68 5.53 | 8.40* 1.37 |
| 3 | 11 | 19.0 | 10.9 | 11.0 | 11.4 | 10.0 | 11.4 | 12.0 | 11.4 | 10.3 | 11.0 | 9.4 | 11.3 | 10.2 | 11.6 |
| | 12 | 13.1 | 7.1 | 7.0 | 5.9 | 4.9 | 8.5 | 6.1 | 8.1 | 5.2 | 6.6 | 6.1 | 10.5 | 10.5 | 10.1 |
| | 13 | 16.3 | 11.1 | 10.9 | 8.0 | 8.2 | 7.9 | 8.7 | 8.1 | 8.4 | 8.7 | 7.5 | 7.5 | 8.0 | 9.5 |
| | 14 | 14.8 | 10.2 | 8.7 | 7.2 | 5.7 | 7.7 | 8.7 | 6.7 | 7.5 | 8.9 | 7.9 | 7.4 | 7.6 | 8.5 |
| | 15 | 12.1 | 6.9 | 6.7 | 6.3 | 6.3 | 7.0 | 6.3 | 7.1 | 6.3 | 6.3 | 6.5 | 6.6 | 7.0 | 6.3 |
| | Mean ±S.D. | 15.06* 2.73 | 9.24 2.07 | 8.86 2.05 | 7.76 2.19 | 7.02 2.06 | 8.50 1.71 | 8.36** 2.39 | 8.28* 1.85 | 7.54* 1.96 | 8.30* 1.92 | 7.48** 1.30 | 8.66** 2.09 | 8.66* 1.59 | 9.20* 1.97 |

Note) UN : Urea nitrogen

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

Table 6-17

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | Cre (mg/dL) | | | | | | | | | | | | | |
|-------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 0.85 | 0.83 | 0.80 | 0.86 | 0.85 | 0.93 | 0.96 | 1.06 | 0.85 | 1.07 | 1.19 | 1.18 | 0.91 | 0.91 |
| | 5 | 0.59 | 0.68 | 0.73 | 0.66 | 0.65 | 0.83 | 0.94 | 0.91 | 0.89 | 1.04 | 1.12 | 1.02 | 1.02 | 0.90 |
| | 16 | 1.04 | 0.81 | 0.90 | 0.93 | 1.02 | 1.09 | 1.08 | 1.03 | 1.27 | 1.28 | 1.39 | 1.19 | 1.30 | 1.45 |
| | 17 | 1.12 | 0.91 | 1.10 | 1.03 | 1.10 | 1.04 | 0.95 | 0.96 | 1.25 | 1.19 | 1.36 | 1.26 | 1.26 | 1.41 |
| | Mean ±S.D. | 0.900 0.236 | 0.808 0.095 | 0.883 0.161 | 0.870 0.156 | 0.905 0.199 | 0.973 0.116 | 0.983 0.066 | 0.990 0.068 | 1.065 0.226 | 1.145 0.111 | 1.155 0.131 | 1.100 0.101 | 0.965 0.188 | 0.905 0.304 |
| 2 | 6 | 0.75 | 0.75 | 0.73 | 0.88 | 0.80 | 0.87 | 0.88 | 0.99 | 0.96 | 1.11 | 1.27 | 0.95 | 0.96 | 1.20 |
| | 7 | 0.61 | 0.59 | 0.65 | 0.65 | 0.71 | 0.91 | 0.96 | 0.96 | 0.98 | 1.10 | 1.26 | 1.14 | 1.21 | 1.13 |
| | 8 | 0.51 | 0.54 | 0.60 | 0.60 | 0.61 | 0.70 | 0.77 | 0.75 | 0.71 | 0.72 | 0.62 | 0.50 | 0.43 | |
| | 9 | 0.73 | 0.73 | 0.77 | 0.96 | 0.71 | 0.90 | 0.82 | 0.98 | 0.92 | 0.80 | 0.88 | 0.85 | 1.03 | 0.99 |
| | 10 | 0.52 | 0.55 | 0.60 | 0.70 | 0.71 | 0.71 | 0.76 | 0.83 | 0.94 | 0.84 | 0.99 | 1.16 | 0.96 | 0.93 |
| | Mean ±S.D. | 0.624* 0.113 | 0.632* 0.101 | 0.670* 0.077 | 0.758 0.155 | 0.708 0.067 | 0.818* 0.104 | 0.838* 0.083 | 0.902 0.107 | 0.902 0.110 | 0.914* 0.180 | 1.004 0.274 | 0.920 0.268 | 0.918 0.291 | 1.063 0.124 |
| 3 | 11 | 0.59 | 0.64 | 0.47 | 0.63 | 0.47 | 0.56 | 0.54 | 0.82 | 0.65 | 0.61 | 0.64 | 0.76 | 0.61 | 0.64 |
| | 12 | 0.71 | 0.45 | 0.63 | 0.59 | 0.59 | 0.90 | 0.76 | 1.05 | 0.81 | 0.94 | 1.13 | 1.33 | 1.16 | 1.18 |
| | 13 | 0.70 | 0.64 | 0.70 | 0.72 | 0.71 | 0.80 | 0.80 | 0.98 | 0.87 | 1.05 | 1.26 | 0.95 | 0.95 | 1.08 |
| | 14 | 0.70 | 0.71 | 0.80 | 0.71 | 0.72 | 0.87 | 0.97 | 1.03 | 1.01 | 1.11 | 1.24 | 1.07 | 1.06 | 1.11 |
| | 15 | 0.67 | 0.74 | 0.83 | 0.85 | 0.75 | 0.82 | 0.92 | 1.19 | 1.25 | 1.19 | 1.34 | 1.21 | 1.05 | 1.00 |
| | Mean ±S.D. | 0.674 0.049 | 0.636* 0.113 | 0.686* 0.145 | 0.700* 0.100 | 0.648* 0.117 | 0.790* 0.135 | 0.798* 0.168 | 1.014 0.134 | 0.918 0.226 | 0.980 0.226 | 1.122 0.280 | 1.064 0.222 | 0.966 0.212 | 1.002 0.212 |

Note) Cre : Creatinine

* P<0.05 : Significantly different from Group 1.

Table 6-18

Blood chemistry in male microminipigs

Study No. SBL703-023

| Group | Animal No. | IP (mg/dL) | | | | | | | | | | | | | |
|-------|------------|---------------|--------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| | | Pre | 2w | 4w | 8w | 12w | 16w | 20w | 24w | 28w | 32w | 36w | 40w | 44w | 48w |
| 1 | 1 | 6.25 | 6.71 | 6.47 | 6.54 | 7.41 | 5.97 | 5.56 | 6.62 | 5.82 | 5.62 | 6.06 | 6.32 | 6.46 | 5.38 |
| | 5 | 6.83 | 7.14 | 6.48 | 6.34 | 7.20 | 5.92 | 5.39 | 5.45 | 5.41 | 5.48 | 5.57 | 5.96 | 5.65 | 5.56 |
| | 16 | 7.22 | 6.90 | 6.64 | 7.03 | 7.29 | 7.32 | 6.43 | 6.39 | 6.63 | 6.26 | 6.73 | 5.86 | 5.70 | 5.59 |
| | 17 | 8.91 | 7.55 | 7.24 | 7.64 | 8.14 | 6.76 | 7.12 | 6.37 | 6.16 | 6.88 | 8.91 | 6.85 | 6.44 | 5.62 |
| | Mean | 7.303 | 7.075 | 6.708 | 6.888 | 7.510 | 6.493 | 6.125 | 6.208 | 6.005 | 6.060 | 6.818 | 6.248 | 6.063 | 5.538 |
| | ±S.D. | 1.143 | 0.362 | 0.363 | 0.579 | 0.429 | 0.673 | 0.805 | 0.518 | 0.517 | 0.644 | 1.474 | 0.448 | 0.448 | 0.108 |
| 2 | 6 | 5.84 | 6.35 | 6.26 | 5.93 | 7.21 | 6.92 | 5.86 | 5.52 | 6.22 | 6.43 | 5.79 | 6.80 | 6.04 | 5.72 |
| | 7 | 6.14 | 6.50 | 7.17 | 6.83 | 7.78 | 6.41 | 6.10 | 6.57 | 6.18 | 6.30 | 6.63 | 7.19 | 5.87 | 6.34 |
| | 8 | 5.29 | 6.76 | 6.77 | 6.31 | 6.94 | 6.11 | 6.46 | 5.47 | 6.33 | 5.95 | 6.07 | 5.76 | 5.43 | |
| | 9 | 6.01 | 6.53 | 6.55 | 7.48 | 7.63 | 6.50 | 6.73 | 7.13 | 6.29 | 6.42 | 6.42 | 7.02 | 7.68 | 7.08 |
| | 10 | 5.06 | 5.87 | 5.55 | 6.33 | 6.99 | 5.51 | 6.21 | 6.18 | 6.51 | 5.41 | 5.88 | 4.79 | 5.82 | 5.89 |
| | Mean | 5.668* | 6.402* | 6.460 | 6.576 | 7.310 | 6.290 | 6.272 | 6.174 | 6.306 | 6.102 | 6.158 | 6.312 | 6.168 | 6.258* |
| | ±S.D. | 0.470 | 0.332 | 0.608 | 0.598 | 0.378 | 0.523 | 0.335 | 0.706 | 0.128 | 0.433 | 0.358 | 1.016 | 0.874 | 0.608 |
| 3 | 11 | 5.91 | 5.78 | 6.30 | 6.93 | 7.40 | 5.82 | 6.64 | 7.33 | 6.83 | 6.07 | 6.31 | 7.00 | 6.39 | 6.65 |
| | 12 | 5.26 | 5.60 | 6.02 | 6.60 | 6.22 | 6.05 | 5.82 | 7.47 | 5.78 | 5.71 | 5.58 | 6.94 | 6.05 | 5.88 |
| | 13 | 5.91 | 6.17 | 6.41 | 7.04 | 6.95 | 6.54 | 5.81 | 7.32 | 5.82 | 6.21 | 6.70 | 7.82 | 6.97 | 7.09 |
| | 14 | 5.98 | 7.67 | 6.29 | 7.11 | 7.74 | 7.04 | 6.13 | 6.36 | 6.12 | 5.74 | 6.86 | 6.89 | 7.18 | 6.94 |
| | 15 | 4.45 | 6.89 | 6.24 | 7.61 | 7.72 | 6.94 | 7.13 | 6.19 | 5.57 | 5.74 | 5.01 | 5.65 | 5.19 | 5.31 |
| | Mean | 5.502* | 6.422 | 6.252* | 7.058 | 7.206 | 6.478 | 6.306 | 6.934* | 6.024 | 5.894 | 6.092 | 6.860 | 6.356 | 6.374* |
| | ±S.D. | 0.657 | 0.856 | 0.144 | 0.365 | 0.637 | 0.536 | 0.571 | 0.607 | 0.491 | 0.230 | 0.781 | 0.777 | 0.792 | 0.756 |

Note) IP : Inorganic phosphorus

* P<0.05 : Significantly different from Group 1.