

系統名 : Slc:ICR

特徴

- 比較的大型で発育良好
- おとなしく、取り扱いやすい
- 繁殖性良好

用途

世界的に一般研究用として幅広い分野で使用される

- 安全性試験
- 毒性評価^{1), 2)}
- 薬理試験
- 免疫試験
- 偽妊娠動物の作製



1) Nakajima et al. *Food Chem Toxicol.* 2020. **136**:111046.
2) Inohana et al. *Toxicol Sci.* 2018. **164**:264-277.

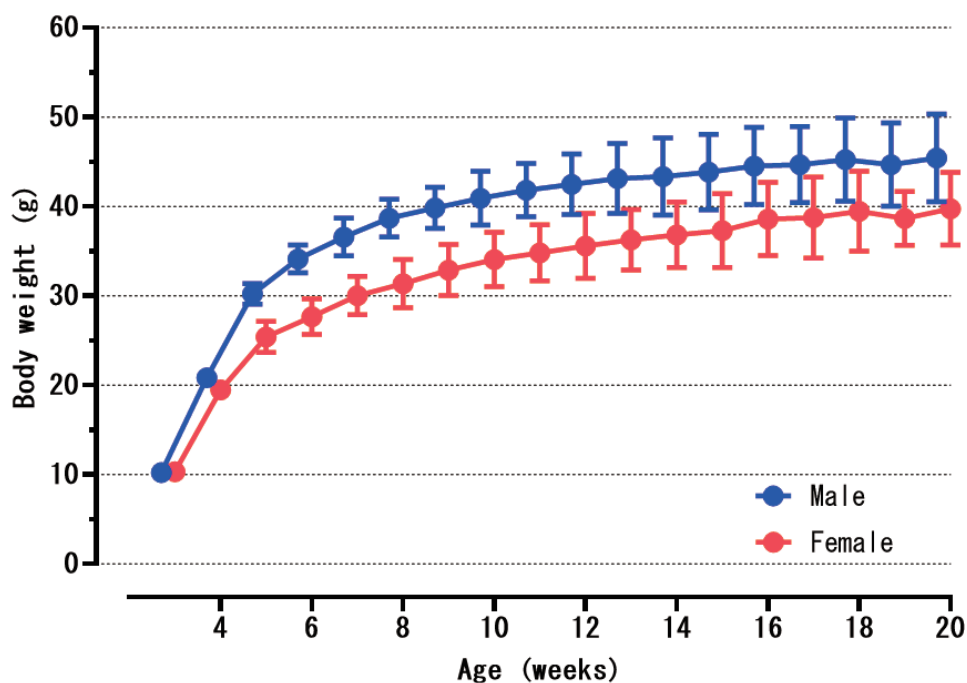
毛色

アルビノ

由来

1965年に米国チャールス・リバー社より導入(アルビノのスイスマウスが起源)

■体重曲線



| | | Age (weeks) | | | | | | | | | | | | | | | | | |
|------------------|----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Male (n=20) | Mean (g) | 10.2 | 20.9 | 30.2 | 34.1 | 36.6 | 38.7 | 39.8 | 40.9 | 41.8 | 42.5 | 43.1 | 43.4 | 43.8 | 44.5 | 44.7 | 45.2 | 44.7 | 45.4 |
| | S.D. | 0.3 | 0.7 | 1.2 | 1.5 | 2.1 | 2.1 | 2.3 | 3.0 | 3.0 | 3.4 | 3.9 | 4.3 | 4.2 | 4.3 | 4.3 | 4.7 | 4.7 | 4.9 |
| Female (n=20) | Mean (g) | 10.3 | 19.5 | 25.4 | 27.7 | 30.0 | 31.4 | 32.9 | 34.1 | 34.8 | 35.6 | 36.3 | 36.8 | 37.3 | 38.6 | 38.7 | 39.5 | 38.7 | 39.7 |
| | S.D. | 0.2 | 0.5 | 1.7 | 2.0 | 2.1 | 2.7 | 2.9 | 3.1 | 3.1 | 3.6 | 3.4 | 3.7 | 4.1 | 4.1 | 4.5 | 4.5 | 3.0 | 4.1 |

飼料:ラボM-A2 (日本農産工業)

■血液学的検査

| Items | Unit | Male | | Female | |
|-------|---------------------------|------------------|------------------|------------------|------------------|
| | | 10 weeks n=10 | 20 weeks n=10 | 10 weeks n=10 | 20 weeks n=10 |
| WBC | $\times 10^2/\mu\text{L}$ | 21.1 \pm 5.0 | 27.6 \pm 6.9 | 36.5 \pm 6.6 | 50.9 \pm 15.6 |
| RBC | $\times 10^4/\mu\text{L}$ | 917.6 \pm 38.1 | 953.1 \pm 49.2 | 923.7 \pm 45.4 | 937.5 \pm 52.2 |
| HGB | g/dL | 14.7 \pm 0.5 | 15.2 \pm 0.8 | 15.2 \pm 0.5 | 15.0 \pm 0.7 |
| HCT | % | 50.0 \pm 1.1 | 50.1 \pm 2.4 | 51.1 \pm 2.1 | 48.6 \pm 1.7 |
| MCV | fL | 54.5 \pm 1.4 | 52.6 \pm 1.6 | 55.3 \pm 1.0 | 51.9 \pm 1.9 |
| MCH | pg | 16.0 \pm 0.5 | 15.9 \pm 0.6 | 16.5 \pm 0.5 | 16.0 \pm 0.6 |
| MCHC | g/dL | 29.3 \pm 0.7 | 30.3 \pm 0.5 | 29.8 \pm 0.4 | 30.8 \pm 0.9 |
| PLT | $\times 10^4/\mu\text{L}$ | 120.2 \pm 8.2 | 128.1 \pm 14.2 | 110.1 \pm 15.7 | 119.4 \pm 23.0 |

Values are mean \pm S.D.
飼料:ラボM-A2 (日本農産工業)

■血液生化学的検査

| Items | Unit | Male | | Female | |
|-------|-------|------------------|------------------|------------------|------------------|
| | | 10 weeks n=10 | 20 weeks n=10 | 10 weeks n=10 | 20 weeks n=10 |
| AST | U/L | 65.5 \pm 11.1 | 105.9 \pm 29.1 | 62.4 \pm 7.0 | 81.4 \pm 18.5 |
| ALT | U/L | 42.5 \pm 9.4 | 57.2 \pm 22.7 | 32.3 \pm 3.6 | 39.1 \pm 16.3 |
| ALP | U/L | 260.1 \pm 58.3 | 151.7 \pm 63.0 | 307.0 \pm 61.5 | 199.4 \pm 86.7 |
| ALB | g/dL | 2.7 \pm 0.1 | 2.8 \pm 0.2 | 3.1 \pm 0.1 | 3.1 \pm 0.2 |
| TP | g/dL | 4.5 \pm 0.2 | 4.9 \pm 0.3 | 4.7 \pm 0.2 | 4.8 \pm 0.3 |
| A/G | | 1.5 \pm 0.1 | 1.4 \pm 0.2 | 1.9 \pm 0.1 | 1.9 \pm 0.1 |
| GLU | mg/dL | 86.8 \pm 26.1 | 73.5 \pm 19.5 | 99.2 \pm 17.8 | 64.6 \pm 21.4 |
| T-BIL | mg/dL | 0.16 \pm 0.04 | 0.15 \pm 0.04 | 0.10 \pm 0.02 | 0.08 \pm 0.01 |
| T-CHO | mg/dL | 139.0 \pm 22.4 | 100.4 \pm 19.4 | 85.0 \pm 9.2 | 65.7 \pm 12.4 |
| TG | mg/dL | 175.0 \pm 57.4 | 88.3 \pm 19.3 | 95.8 \pm 16.8 | 85.2 \pm 29.3 |
| PL | mg/dL | 246.8 \pm 26.9 | 182.0 \pm 25.0 | 155.2 \pm 13.9 | 127.9 \pm 19.8 |
| Ca | mg/dL | 8.9 \pm 0.3 | 8.6 \pm 0.3 | 9.2 \pm 0.3 | 8.8 \pm 0.3 |
| IP | mg/dL | 8.2 \pm 1.7 | 7.6 \pm 1.3 | 8.8 \pm 1.9 | 8.4 \pm 1.5 |
| BUN | mg/dL | 18.7 \pm 2.7 | 22.2 \pm 4.0 | 18.5 \pm 2.6 | 17.8 \pm 4.4 |
| CRE | mg/dL | 0.06 \pm 0.01 | 0.06 \pm 0.02 | 0.08 \pm 0.01 | 0.09 \pm 0.02 |
| Na | mEq/L | 152.2 \pm 1.4 | 153.7 \pm 1.6 | 153.2 \pm 2.0 | 152.7 \pm 1.3 |
| K | mEq/L | 4.4 \pm 0.3 | 3.9 \pm 0.2 | 4.4 \pm 0.4 | 3.7 \pm 0.2 |
| Cl | mEq/L | 111.9 \pm 1.2 | 110.7 \pm 1.8 | 113.5 \pm 1.7 | 110.5 \pm 2.1 |

Values are mean \pm S.D.
飼料:ラボM-A2 (日本農産工業)

■器官重量

| Items | Unit | Male | | Female | |
|-----------------------|------|------------------|------------------|------------------|------------------|
| | | 10 weeks n=19 | 20 weeks n=20 | 10 weeks n=20 | 20 weeks n=19 |
| Body weight | g | 37.8 ± 3.4 | 41.7 ± 4.7 | 31.9 ± 2.1 | 36.7 ± 3.7 |
| Absolute organ weight | | | | | |
| Brain | g | 0.481 ± 0.032 | 0.476 ± 0.024 | 0.492 ± 0.015 | 0.486 ± 0.030 |
| Heart | g | 0.163 ± 0.021 | 0.188 ± 0.020 | 0.140 ± 0.011 | 0.138 ± 0.014 |
| Lung | g | 0.195 ± 0.021 | 0.214 ± 0.018 | 0.187 ± 0.014 | 0.192 ± 0.020 |
| Kidney (L) | g | 0.282 ± 0.044 | 0.304 ± 0.064 | 0.194 ± 0.021 | 0.196 ± 0.021 |
| (R) | g | 0.301 ± 0.041 | 0.315 ± 0.053 | 0.206 ± 0.024 | 0.204 ± 0.020 |
| Spleen | g | 0.118 ± 0.022 | 0.122 ± 0.025 | 0.145 ± 0.039 | 0.126 ± 0.034 |
| Liver | g | 1.590 ± 0.155 | 1.534 ± 0.172 | 1.348 ± 0.154 | 1.385 ± 0.156 |
| Testis (L) | g | 0.122 ± 0.019 | 0.131 ± 0.023 | | |
| (R) | g | 0.128 ± 0.019 | 0.138 ± 0.026 | | |
| Ovary (L) | mg | | | 10.8 ± 3.2 | 12.4 ± 3.3 |
| (R) | mg | | | 11.1 ± 2.5 | 14.0 ± 3.2 |
| Uterus | g | | | 0.164 ± 0.067 | 0.155 ± 0.061 |
| Thymus | g | 0.042 ± 0.009 | 0.028 ± 0.008 | 0.047 ± 0.010 | 0.043 ± 0.020 |
| Salivary gland (L) | g | 0.101 ± 0.013 | 0.129 ± 0.025 | 0.070 ± 0.016 | 0.084 ± 0.019 |
| (R) | g | 0.103 ± 0.014 | 0.129 ± 0.022 | 0.073 ± 0.015 | 0.084 ± 0.019 |
| Relative organ weight | | | | | |
| Brain | g% | 1.28 ± 0.10 | 1.16 ± 0.15 | 1.55 ± 0.12 | 1.34 ± 0.17 |
| Heart | g% | 0.43 ± 0.04 | 0.45 ± 0.05 | 0.44 ± 0.05 | 0.38 ± 0.05 |
| Lung | g% | 0.52 ± 0.04 | 0.52 ± 0.05 | 0.59 ± 0.05 | 0.53 ± 0.06 |
| Kidney (L) | g% | 0.74 ± 0.09 | 0.73 ± 0.13 | 0.61 ± 0.07 | 0.54 ± 0.06 |
| (R) | g% | 0.80 ± 0.09 | 0.76 ± 0.10 | 0.65 ± 0.08 | 0.56 ± 0.06 |
| Spleen | g% | 0.31 ± 0.04 | 0.29 ± 0.04 | 0.45 ± 0.12 | 0.34 ± 0.09 |
| Liver | g% | 4.21 ± 0.19 | 3.69 ± 0.26 | 4.22 ± 0.33 | 3.78 ± 0.36 |
| Testis (L) | g% | 0.32 ± 0.04 | 0.32 ± 0.06 | | |
| (R) | g% | 0.34 ± 0.04 | 0.33 ± 0.06 | | |
| Ovary (L) | mg% | | | 34.04 ± 10.27 | 34.37 ± 11.06 |
| (R) | mg% | | | 34.91 ± 8.48 | 38.54 ± 10.60 |
| Uterus | g% | | | 0.51 ± 0.20 | 0.43 ± 0.18 |
| Thymus | g% | 0.11 ± 0.03 | 0.07 ± 0.02 | 0.15 ± 0.03 | 0.12 ± 0.05 |
| Salivary gland (L) | g% | 0.27 ± 0.03 | 0.31 ± 0.06 | 0.22 ± 0.05 | 0.23 ± 0.04 |
| (R) | g% | 0.27 ± 0.03 | 0.31 ± 0.05 | 0.23 ± 0.05 | 0.23 ± 0.04 |

Values are mean ± S.D.
飼料:ラボM-A2(日本農産工業)