

## 系統名：Slc:Wistar

### 特徴

- 性質温順で取り扱いやすい
- 比較的小型で発育良好
- 環境に対する順応性が高く、生理値が安定している

### 用途

一般研究用として幅広い分野で使用される

- 薬理試験<sup>1)</sup>
- 安全性試験
- 免疫および代謝



### 毛色

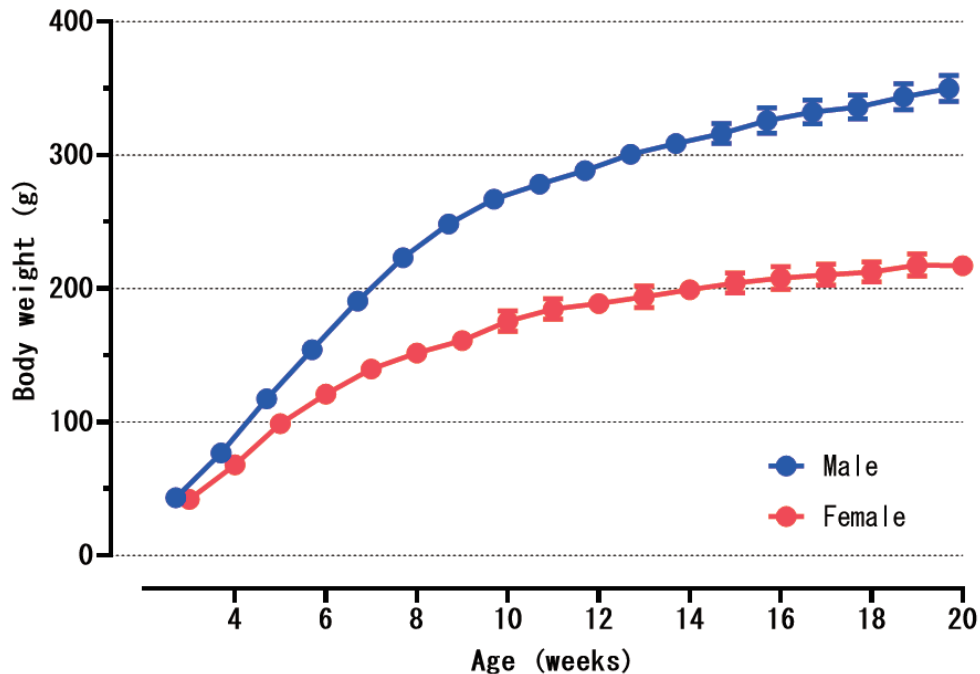
アルビノ

1) Takagi et al. *Clin Exp Pharmacol Physiol.* 2017. **44**:305-312..

### 由来

1968年に東京大学医科学研究所より導入

## ■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=10)	Mean (g)	43.3	76.8	117.3	154.4	190.7	223.2	248.5	267.1	278.3	288.4	300.6	308.7	316.2	325.8	332.2	336.0	343.6	349.8
	S.D.	0.9	2.2	4.3	5.4	4.4	5.2	5.8	4.8	4.7	4.8	4.9	6.7	7.6	9.6	9.0	9.1	9.8	9.8
Female (n=10)	Mean (g)	42.0	68.1	98.9	121.0	139.7	151.8	161.1	175.5	184.8	188.8	193.7	199.1	204.0	207.8	210.4	212.4	217.6	217.2
	S.D.	1.0	2.8	4.1	5.2	5.4	6.9	6.5	7.8	7.8	7.3	8.2	7.2	7.6	8.7	7.9	7.5	8.3	7.3

飼料:ラボR-A2 (日本農産工業)

## ■血液学的検査

Items	Unit	Male		Female	
		10 weeks n=8	20 weeks n=10	10 weeks n=10	20 weeks n=9
WBC	$\times 10^2/\mu\text{L}$	52.0 $\pm$ 14.2	38.1 $\pm$ 3.7	29.2 $\pm$ 5.4	30.9 $\pm$ 5.9
RBC	$\times 10^4/\mu\text{L}$	868.0 $\pm$ 35.3	955.6 $\pm$ 19.3	802.4 $\pm$ 17.1	839.4 $\pm$ 20.6
HGB	g/dL	15.0 $\pm$ 0.5	15.1 $\pm$ 0.2	14.3 $\pm$ 0.3	14.6 $\pm$ 0.4
HCT	%	44.3 $\pm$ 1.5	45.4 $\pm$ 0.8	41.6 $\pm$ 0.8	42.7 $\pm$ 1.0
MCV	fL	51.0 $\pm$ 0.9	47.4 $\pm$ 0.5	51.9 $\pm$ 0.5	50.9 $\pm$ 0.8
MCH	pg	17.2 $\pm$ 0.2	15.8 $\pm$ 0.3	17.8 $\pm$ 0.2	17.4 $\pm$ 0.2
MCHC	g/dL	33.8 $\pm$ 0.5	33.3 $\pm$ 0.4	34.3 $\pm$ 0.5	34.1 $\pm$ 0.5
PLT	$\times 10^4/\mu\text{L}$	81.3 $\pm$ 9.5	69.9 $\pm$ 6.4	77.2 $\pm$ 13.6	75.6 $\pm$ 5.1

Values are mean  $\pm$  S.D.  
飼料: ラボR-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=9
AST	U/L	91.8 $\pm$ 9.5	101.1 $\pm$ 21.6	85.4 $\pm$ 8.3	175.8 $\pm$ 84.9
ALT	U/L	46.0 $\pm$ 6.8	54.5 $\pm$ 8.6	39.6 $\pm$ 7.0	86.6 $\pm$ 41.0
ALP	U/L	873.5 $\pm$ 48.5	443.3 $\pm$ 58.5	533.8 $\pm$ 45.3	252.0 $\pm$ 51.8
ALB	g/dL	4.4 $\pm$ 0.2	4.2 $\pm$ 0.1	4.4 $\pm$ 0.2	5.0 $\pm$ 0.3
TP	g/dL	5.9 $\pm$ 0.3	5.9 $\pm$ 0.2	5.7 $\pm$ 0.3	6.7 $\pm$ 0.4
A/G		3.0 $\pm$ 0.2	2.6 $\pm$ 0.2	3.4 $\pm$ 0.2	3.0 $\pm$ 0.2
GLU	mg/dL	149.2 $\pm$ 23.0	154.2 $\pm$ 22.8	103.0 $\pm$ 10.3	127.8 $\pm$ 14.1
T-BIL	mg/dL	0.04 $\pm$ 0.01	0.05 $\pm$ 0.01	0.05 $\pm$ 0.01	0.08 $\pm$ 0.01
T-CHO	mg/dL	50.7 $\pm$ 4.2	54.6 $\pm$ 4.9	72.7 $\pm$ 7.1	104.0 $\pm$ 8.5
TG	mg/dL	41.7 $\pm$ 7.8	63.0 $\pm$ 13.8	22.5 $\pm$ 5.5	54.7 $\pm$ 28.7
PL	mg/dL	91.9 $\pm$ 5.9	94.6 $\pm$ 6.3	123.3 $\pm$ 11.7	182.4 $\pm$ 16.1
Ca	mg/dL	9.9 $\pm$ 0.3	9.8 $\pm$ 0.4	9.8 $\pm$ 0.3	10.4 $\pm$ 0.3
IP	mg/dL	6.8 $\pm$ 0.4	6.2 $\pm$ 0.4	7.1 $\pm$ 0.7	5.7 $\pm$ 0.7
BUN	mg/dL	17.7 $\pm$ 2.1	15.6 $\pm$ 1.2	17.0 $\pm$ 1.3	16.4 $\pm$ 1.5
CRE	mg/dL	0.27 $\pm$ 0.02	0.26 $\pm$ 0.01	0.25 $\pm$ 0.02	0.30 $\pm$ 0.02
Na	mEq/L	142.8 $\pm$ 1.4	143.1 $\pm$ 1.1	143.4 $\pm$ 0.6	142.4 $\pm$ 1.1
K	mEq/L	4.3 $\pm$ 0.2	4.2 $\pm$ 0.2	3.8 $\pm$ 0.4	3.9 $\pm$ 0.3
Cl	mEq/L	101.2 $\pm$ 1.4	101.8 $\pm$ 0.4	103.7 $\pm$ 1.3	102.0 $\pm$ 1.0

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

## ■器官重量

Items	Unit	Male		Female	
		10 weeks n=10	20 weeks n=10	10 weeks n=9	20 weeks n=10
Body weight	g	257.0 ± 12.7	335.2 ± 7.7	157.9 ± 9.9	207.2 ± 6.7
Absolute organ weight					
Brain	g	1.848 ± 0.101	1.915 ± 0.039	1.627 ± 0.083	1.810 ± 0.084
Heart	g	0.768 ± 0.051	0.896 ± 0.054	0.513 ± 0.038	0.615 ± 0.042
Lung	g	0.939 ± 0.077	1.064 ± 0.038	0.685 ± 0.051	0.824 ± 0.032
Kidney(L)	g	0.887 ± 0.061	1.072 ± 0.068	0.552 ± 0.031	0.649 ± 0.039
(R)	g	0.867 ± 0.085	1.024 ± 0.044	0.538 ± 0.047	0.639 ± 0.034
Spleen	g	0.576 ± 0.052	0.668 ± 0.032	0.421 ± 0.029	0.466 ± 0.038
Liver	g	7.293 ± 0.300	7.979 ± 0.312	4.411 ± 0.344	5.417 ± 0.285
Testis(L)	g	1.457 ± 0.081	1.607 ± 0.035		
(R)	g	1.407 ± 0.063	1.565 ± 0.056		
Ovary(L)	mg			34.1 ± 5.6	37.4 ± 9.4
(R)	mg			35.1 ± 4.1	37.6 ± 7.1
Uterus	g			0.345 ± 0.084	0.430 ± 0.054
Adrenal(L)	mg	24.1 ± 3.5	25.1 ± 2.8	25.3 ± 2.4	26.7 ± 3.0
(R)	mg	19.1 ± 6.4	22.2 ± 2.4	22.6 ± 2.6	25.4 ± 3.1
Thymus	g	0.339 ± 0.041	0.214 ± 0.023	0.312 ± 0.033	0.228 ± 0.032
Pituitary	mg	7.9 ± 1.0	8.1 ± 1.1	8.8 ± 1.7	9.9 ± 2.0
Thyroid gland	mg	14.1 ± 2.9	15.3 ± 4.1	11.4 ± 3.3	12.0 ± 2.0
Salivary gland(L)	g	0.231 ± 0.021	0.268 ± 0.025	0.160 ± 0.014	0.180 ± 0.019
(R)	g	0.230 ± 0.017	0.275 ± 0.021	0.160 ± 0.008	0.175 ± 0.031
Relative organ weight					
Brain	g%	0.72 ± 0.03	0.57 ± 0.01	1.03 ± 0.08	0.87 ± 0.04
Heart	g%	0.30 ± 0.01	0.27 ± 0.01	0.32 ± 0.02	0.30 ± 0.02
Lung	g%	0.37 ± 0.02	0.32 ± 0.01	0.43 ± 0.02	0.40 ± 0.02
Kidney(L)	g%	0.35 ± 0.01	0.32 ± 0.02	0.35 ± 0.02	0.31 ± 0.02
(R)	g%	0.34 ± 0.02	0.31 ± 0.01	0.34 ± 0.02	0.31 ± 0.02
Spleen	g%	0.22 ± 0.02	0.20 ± 0.01	0.27 ± 0.01	0.22 ± 0.01
Liver	g%	2.84 ± 0.12	2.38 ± 0.07	2.79 ± 0.09	2.62 ± 0.20
Testis(L)	g%	0.57 ± 0.02	0.48 ± 0.01		
(R)	g%	0.55 ± 0.02	0.47 ± 0.02		
Ovary(L)	mg%			21.63 ± 3.56	17.97 ± 4.24
(R)	mg%			22.20 ± 2.00	18.11 ± 3.27
Uterus	g%			0.22 ± 0.05	0.21 ± 0.03
Adrenal(L)	mg%	9.39 ± 1.25	7.49 ± 0.82	16.00 ± 1.13	12.90 ± 1.35
(R)	mg%	7.40 ± 2.28	6.62 ± 0.72	14.28 ± 1.27	12.25 ± 1.40
Thymus	g%	0.13 ± 0.01	0.06 ± 0.01	0.20 ± 0.01	0.11 ± 0.01
Pituitary	mg%	3.08 ± 0.42	2.42 ± 0.34	5.60 ± 1.02	4.79 ± 0.98
Thyroid gland	mg%	5.49 ± 1.10	4.56 ± 1.19	7.16 ± 1.93	5.81 ± 0.87
Salivary gland(L)	g%	0.09 ± 0.01	0.08 ± 0.01	0.10 ± 0.01	0.09 ± 0.01
(R)	g%	0.09 ± 0.01	0.08 ± 0.01	0.10 ± 0.00	0.08 ± 0.01

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