

A basic manual as for breeding rats

Iar: Long Evans

- Birth
 - We regard 0-week-old as the week when a rat is born. We do not regard 1-week-old as the week when a rat is born.

- Weaning at the week of 3-week-old
 - Long Evans rat is weaned at the day of 21-day-old. (We consider the date of birth 0-day-old.)
 - Both male and female rats whose body weights are more than or equal to 30.0 grams and less than 50.0 grams are passed. Rats whose body weights do not fit with those weight range are excluded.
 - The rats are sorted into cages according to body weights. The maximum heads per cage is 20 (106cm²/head).

- After weaning
 - Depending on the age of rats, the number of animals accommodated will be changed as follows:
 - Between 3 and 5 weeks old: 20 heads per cage,
 - Between 6 and 8 weeks old: 15 heads per cage,
 - Between 9 and 10 weeks old: 10 heads per cage.

Other information

Breeding environment

The rats' characteristics depend upon the environmental factors. It is necessary to determine breeding environment.

- Temperature
Preset: between 20 and 24 degrees Celsius
Permissible range: between 18 and 28 degrees Celsius
- Humidity
Preset: between 40 and 60 percentages
Permissible range: between 30 and 80 percentages
- Ventilation
Fresh air all the time (HEPA filter)
Ventilation number of times
Preset: 15 times per hour
Permissible range: between 10 and 20 times per hour
- Illumination
14 hours illumination
Turn on at 4 am and turn off at 6 pm

Diet and water

- Diet
Autoclaved MR-A1 (solid feed for rat, rat breeding), ceaseless feeding (Nosan Corporation)
As for nutrient composition of MR-A1, please refer to the document on the Oriental Yeast website.
- Drinking water
For drinking water, adjust the residual chlorine concentration more than 1 ppm just before changing water.
- Animal bedding
Wood chip (Japan SLC, Inc.)