# A basic manual as for breeding mice

# **TSOD (Male)**

#### • Birth

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

### • Weaning at the week of 3-week-old

- TSOD is weaned on Thursday at the week of 3-week-old.
- Male TSOD mice whose body weights are more than or equal to 12.0 grams are passed, and male mice whose body weights are less than 12.0 grams are excluded.
- Male mice are sorted into cages according to body weights. The maximum heads per cage is 5 (140.8cm2/head).
- Mice are given diet which we crush on the lids until 6-week-old. The crushed diet is given on the cage lid and in the cage. This makes it easier for mice to eat diet.

#### After weaning

- The cages are refreshed once a week.
- We weigh the mice on Thursday at the week of 4-week-old. The mice whose weights *increase* by more than or equal to 9.0 grams from 3 weeks old are passed. The mice whose weights increase by less than 9.0 grams from weaning are excluded.
- We weigh the mice on Friday at the week of 6-week-old. The mice whose weights are less than or equal to 36.9 grams are excluded.
- After 7-week-old, we give diet not only on the lid but also into the cage depending upon the condition of the mice.

# TSNO (Male)

#### Birth

• We regard 0-week-old as the week when the mouse is born. We do not regard 1-week-old as the week when the mouse is born.

### • Weaning at the week of 3-week-old

- TSNO is weaned on Monday, Tuesday, and Thursday at the week of 3-week-old.
- Male TSNO mice whose body weights are less than or equal to 10.0 grams are passed, and male TSNO mice whose body weights are more than 10.1 grams are excluded.
- After weighing, 7 heads of mice are housed in a cage (100.6cm2/head).
- Mice are given diet which we do not crush on the cage lids.

### • After weaning

• The cages are refreshed once a week.

## Other information

# **Breeding environment**

The patient's conditions of TSOD mouse such as blood sugar level depends upon the environmental factors. It is necessary to determine breeding environment.

Temperature

Preset: between 20 and 26 degrees Celsius

Permissible range: between 18 and 28 degrees Celsius

Humidity

Preset: between 40 and 70 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

12 hours illumination

Turn on at 8 am and turn off at 8 pm

### Diet and water

• Diet

Autoclaved MF(solid feed for mouse, rat breeding), ceaseless feeding (Oriental Yeast Co., Ltd.)

As for nutrient composition of MF, 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.)