

## A basic manual as for breeding mice

### db (C57BLKS/J Iar -+Lepr<sup>db</sup>/+Lepr<sup>db</sup>)

- 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 4-week-old
  - db is weaned on Wednesday at the week of 4-week-old.
  - Male and female db mice are respectively classified into homo, hetero, and misty.
  - As for male homo, mice whose body weights are more than or equal to 6.1 grams are passed, and male homo mice whose body weights are less than 6.1 grams are excluded.
  - As for female homo, mice whose body weights are more than or equal to 5.1 grams are passed, and female homo mice whose body weights are less than 5.1 grams are excluded.
  - Homo mice are sorted into cages according to body weights. The maximum heads per cage is 11 (103cm<sup>2</sup>/head).
  - Mice are given diet on the cage lid. Until 5-week-old, mice are given diet in the cage. This makes it easier for mice to eat diet.
  
- After weaning
  - The cages are refreshed once a week.

## Other information

### Breeding environment

The patient's conditions of db 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.)