



## An Information Guide for the Care and Handling of DIO Mice

Taconic offers a continuous inventory of Murine Pathogen Free (MPF™) male C57BL/6NTac mice maintained on a high fat diet for our Diet Induced Obesity (DIO) inventory. DIO mice will exhibit increased body fat gain, glucose intolerance, insulin resistance, hyperinsulinemia, and hyperlipidemia as a result of their phenotype. Control mice at the same age on a NIH-31M diet are also available.

Please use the given information to facilitate a smooth transfer and adjustment of DIO mice to your site.

### Taconic's Care Procedures

Six-week old (+/- 3 days) male C57BL/6NTac mice weighing between 17 and 21 grams are sourced from Taconic MPF™ production barriers and moved to the conditioning location. At each location, the MPF™ status of the mice is strictly maintained. Upon arrival, C57BL/6NTac mice are placed on an irradiated, sterility tested, high fat diet (RDI #12492). RDI #12492 is a high fat diet. The feed is 35% fat by weight and 60% fat by kcal percent. Mice are maintained on the diet up to 26 weeks of age and are housed 10 per cage in the US and 5 per cage in Europe.

### Shipping: In-Transit and Upon Arrival

C57BL/6NTac mice are shipped in sterilized Taconic Transit Cages™ (TTC™) with enough food for their duration in transit and moisture packs. The mice are packed in their Barrier Unit of origin or laminar flow hoods. Shipping stress may cause the mice to lose weight and seem almost wet on arrival. Do not worry - this is normal. Animals that are in transit 48 hours or less will acclimate after 48 hours at your facility; they should be back to their normal weights, settled, and ready for testing. Shipment by air or prolonged shipping times may cause greater weight loss; in that case, additional acclimation time may be required for the mice to regain weight. Generally, we recommend two weeks acclimation for animals that have a prolonged transit time. We recommend that you house your DIO mice in the same cagemate cohorts in which they are shipped to minimize variables in your study. Typically, US orders are packed 8-10 per cage as cagemates and EU orders are packed with 2 cohorts of 5 cagemates in a divided TTC™.

### Diet

We strongly encourage you to continue the C57BL/6NTac mice on the diet they were raised on. Additional RDI #12492 feed may be purchased from



Research Diets. To maintain consistency in control animals, please continue to feed NIH-31M.

#### Other Hints

As with any mouse strain, C57BL/6NTac mice may become stressed when adjusting to a new environment. Because of this, always work carefully and calmly with C57BL/6NTac mice and do not check on them too often. In addition, keep their cages away from any noisy areas (sinks, windows, doorways, etc.) or machinery (sinks, air conditioners, other lab equipment). Weekly bedding changes are sufficient, though the mice may enjoy some nesting material.

Further Questions? Contact Taconic: 1-888-TACONIC.