

Indirect Calorimetry

Respiratory metabolic function was assessed in male mice at 12 weeks using the LabMaster system (TSE-systems). Mice were housed individually in calorimetry cages for a period of approximately 21 hours including a 5 hour light phase acclimatisation period. This was followed consecutively by a 12 hour dark (19:30 - 07:30) and minimum 3 hour light phase. Cumulative food intake, activity (beam breaks), volume of oxygen consumed and volume of carbon dioxide produced were all measured. From this data the respiratory exchange ratio and energy expenditure were derived. Water bottles were weighed before and after the experiment to assess water consumption.

The diet the mice were fed was pipeline dependent.