

## Instruction of blood collection for keeping mice alive

1. An adult mouse has a circulating blood volume of about 1.5~2.5ml (6~8% of the body weight).
2. Up to 10% of the circulating blood volume may be taken on a single occasion from a normal healthy animal on an adequate plane of nutrition with minimal adverse effect.
3. For repeat bleeds at shorter intervals, a maximum of 1 % of an animal's circulating blood volume can be removed every 24 hours.
4. Suggested volume of blood collection and recovery period

Multiple sampling	
Circulatory blood volume removed in 24 hours	Approximate recovery period
7.5%	1 weeks
10~15%	2 weeks
20%	4 weeks

Ex. The circulating blood volume of an adult mouse is about 6~8% of the body weight. Thus, the total blood volume of a 20g mouse is around 1.2ml~1.6ml. Furthermore, the maximum blood volume for withdrawing each time is 10% of total blood volume. As a result, the blood volume of a 20g mouse will be 120 $\mu$ l ~160 $\mu$ l.