**Administration of Carprofen in the water for mice**

Carprofen may be administered in the water or by subcutaneous injection. Giving in the water is more refined and the dosage charts for this are below. **If this method is used please always ensure the water bottle is labelled, the cage card is updated and the CBS staff are aware that treatment is ongoing.**

***Refresh* water bottles once daily**

**Carprofen: Non-Steroidal Anti-inflammatory drug**

These calculations are based on the following values/rates:

Carprofen Dose rate: 5mg/kg/24 hours

Average bodyweight of an adult mouse = 30g

Formulation of Carprofen: Rimadyl 50mg/ml

|  |  |
| --- | --- |
| Volume of water in water bottle | Amount of Carprofen 50mg/ml to be added |
| 100ml | 0.066ml |
| 150ml | 0.099ml |
| 200ml | 0.13ml |
| 250ml | 0.19ml |

Average daily water consumption of mice per day = 150ml/kg/day

**Calculation:**

Amount of drug needed per mouse in 24 hours => 5mg/kg x 0.03kg = 0.15mg

Average daily water consumption per mice per day => 150 x 0.03 = 4.5ml/day

Carprofen concentration required in the water => 0.15/4.5 = 0.033mg of Carprofen needed per ml of water or 3.33mg/100ml

Amount of Carprofen (Rimadyl) 50mg/ml solution needed in 100ml => 3.33/50 = 0.066ml in 100ml of water