**Recommended Dilution and Dosing of Meloxicam: Rats and Mice**

* It is recommended that 0.5cc tuberculin syringes with permanently attached needles be used for more accurate dosing and to reduce dead-space loss of drug.
* Multi-dose sterile vials with a septum should be used for diluting and withdrawing doses. The vial must be label with the drug name, concentration and the expiration date. Vials can be purchase through the DLAM Office.

Rats:

* Dose: 1.0-2.0 mg/kg SC once daily (Injectable Meloxicam 5mg/ml)
* This calculation will be for the low end of the dose range at 1.0mg/kg
* The Meloxicam is undiluted for rats > 250 gr and diluted 1:1 for rats 200 gr or less..

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| Weight of the Rat  (grams) | Meloxicam Injectable Solution  Undiluted 5mg/ml (1.0mg/kg dose) |
| 250 | 0.05 ml |
| 300 | 0.06 ml |
| 350 | 0.07 ml |
| 400 | 0.08 ml |
| 450 | 0.09 ml |
| 550 | 0.11 ml |

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| --- | --- |
| Weight of the Rat  (grams) | Meloxicam Injectable Solution  Diluted 2.5mg/ml (1.0mg/kg dose) |
| 150 | 0.06 ml |
| 175 | 0.07 ml |
| 200 | 0.08 ml |

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Mice:

* Dose: 2-5 mg/kg SC once daily (Injectable Meloxicam 5mg/ml)
* This calculation will be for the high end of the dose range at 5mg/kg, for the low dose, half the high dose
* The Meloxicam (5mg/ml) is to be diluted at 0.2 ml Meloxicam in 1.8 ml Saline or Sterile Water.

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| Weight of the Mouse  (grams) | Meloxicam  Diluted to 0.5mg/ml (5mg/kg dose) |
| 20 | 0.20 ml |
| 25 | 0.25 ml |
| 30 | 0.30 ml |
| 35 | 0.35 ml |
| 40 | 0.40 ml |
| 45 | 0.45 ml |
| 50 | 0.50 ml |
| 55 | 0.55 ml |