**Recommended Dilution and Dosing of Buprenorphine: 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: 0.01-0.05mg/kg SC every 3-4 hours
* This calculation will be for the low end of the dose range at 0.01mg/kg
* The Buprenorphine is to be diluted at 1.0 ml Buprenorphine in 9.0 ml Saline or Sterile Water.

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| Weight of the Rat  (grams) | Buprenorphine diluted 0.03mg/ml  (0.01mg/kg dose) |
| 150 | 0.05 ml |
| 175 | 0.06ml |
| 200 | 0.07 ml |
| 250 | 0.08 ml |
| 300 | 0.10 ml |
| 350 | 0.12 ml |
| 400 | 0.14 ml |
| 450 | 0.15 ml |
| 550 | 0.18 ml |

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Mice:

* Dose: 0.05-0.1mg/kg SC every 3-4 hours
* This calculation will be for the low end dose of the dose range at 0.05mg/kg
* The Buprenorphine (0.3mg/ml) is to be diluted at 1.0 ml Buprenorphine in 19.0 ml Saline or Sterile Water.

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| Weight of the Mouse  (grams) | Buprenorphine diluted 0.015mg/ml  (0.05mg/kg dose) |
| 20 | 0.06 ml |
| 25 | 0.08 ml |
| 30 | 0.09 ml |
| 35 | 0.12 ml |
| 40 | 0.13 ml |
| 45 | 0.15 ml |
| 50 | 0.17 ml |
| 55 | 0.18 ml |