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| --- | --- | --- | --- | --- | --- |
| DRUG | CONCENTRATION mg/ml | DOSE RATE mg/kg | CALCULATION\* | WITHDRAWAL PERIOD | ADDITIONAL COMMENTS |
| 2% Xylazine | 20 | 0.025 | Vol= (0.025x 400)/ 20= 0.5ml | 14 days meat  48 hours milk | Sedation |
| 10% Ketamine | 100 | 0.05 | Vol= (0.05x 400)/ 100= 0.2ml | 3 days meat  48 hrs milk | Sedation |
| Atropine | 0.54 | 0.04 | Vol= (0.04x 400)/ 0.54= 29.6ml | 14 days meat  3 days milk | In case of bradycardia < 30bpm |
| Epinephrine | 1 | 0.02 | Vol= (0.02x 400)/ 1= 8ml | None specified | Anaphylactic reactions may occur |
| Tolazonine | 100 | 0.025 x 2= 0.05 | Vol= (0.05x 400)/ 100= 0.2 ml | None for food animals | Xylazine reversal |
| Lidocaine | 20 | 10 (toxic dose) | Vol= (10x 400)/ 20= 200ml  DO NOT EXCEED 100ml | 1 day meat  24 hrs milk | It is advised to stay below half of the toxic dose to avoid toxicity |

**DRUGS USED IN THE LABORATORY SESSION FOR ANAESTHESIA NERVE BLOCKS**

\*Calculation based on the following formula:

Volume= (dose rate x weight)/ concentration

Where weight= 400kg