**Drug Calculations**

Bull ID no: 163

Estimated weight: 150kg

Formula: VOLUME (mL)= $\frac{Dosage of drug \frac{MG}{KG}xWeight of animal \left(KG\right)}{Cncentration of drug \frac{mg}{mL}}$

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| --- | --- | --- | --- | --- | --- |
| **Drug** | **Concentration** | **Dose Rate and Route**  | **Calculations and amount given**  | **Indications** | **Withdrawal time**  |
| Xylazine 2% | 20mg/ml | 0.05mg/kg IV | (0.05x150) /20 = 0.375ml | Sedative | Meat-48 hours |
| Banamine (Flunixin Meglumine) | 50mg/ml | 1.1mg/kg IV | (1.1x150)/ 50 = 3.3ml | NSAID- analgesia | Meat-4 days |
| Tolazoline | 100mg/ml | 0.1mg/kg IV | (0.1x150)/100= 0.15ml | Emergency drug | Meat-30 days  |
| Lidocaine 2% | 20mg/ml | 0.2mg/kg | A total of 5 ml were given in the spermatic cord. 2 ml per testicle and 1 ml for the surrounding tissues. | Local anaesthetic  | Meat-1 day |
| Penicillin-Streptomycin (PenStrep) | 200,000 IU | 30,000 IU | (30,000x150)/ 200,000= 22.5ml | Antibiotic | Meat-23days |

Lidocaine Toxic dose(10mg/kg): (10x150)/20= 75ml

Bull ID no. 154

Estimated Weight: 250kg

Table sshowing drug calcualtions

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| **Drug** | **Concentration** | **Dose Rate and Route**  | **Calculations and amount given**  | **Indications** | **Withdrawal time**  |
| Xylazine 2% | 20mg/ml | 0.05mg/kg IV | (0.05x250) /20 = 0.625ml | Sedative | Meat-48 hours |
| Banamine (Flunixin Meglumine) | 50mg/ml | 1.1mg/kg IV | (1.1x250)/ 50 = 5.5ml | NSAID- analgesia | Meat-4 days |
| Tolazoline | 100mg/ml | 0.1mg/kg IV | (0.1x250)/100= 0.25ml | Emergency drug | Meat-30 days  |
| Lidocaine 2% | 20mg/ml | 0.2mg/kg | A total of 5 ml were given in the spermatic cord. 2 ml per testicle and 1 ml for the surrounding tissues. | Local anaesthetic  | Meat-1 day |
| Penicillin-Streptomycin (PenStrep) | 200,000 IU | 30,000 IU | (30,000x250)/200,000= 37.5ml | Antibiotic | Meat-23 days |

Lidocaine Toxic dose (10mg/kg): (10x250)/ 20 = 125ml