**Drugs List**

Drug volume (ml) =

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| --- | --- | --- | --- | --- | --- |
| **Name** | **Class** | **Dose** | **Concentration** | **Withdrawal Period** | **Indication** |
| **Flunixin meglumine** | NSAID | 2.2 mg/kg (IV) | 50 mg/mL | Meat - 5 to 14 days  Milk - 12 to 48 hours | Inflammation and pain |
| **Ketoprofen** | NSAID and analgesic | 3 mg/kg (IM) | 0.4–6 μg/mL | Meat:  IM - 4 days  IV - 1 day  Milk:  0 hours | Inflammation, pain and pyrexia |
| **Xylazine 2%** | Alpha-2 agonist | Light sedation: 0.05 - 0.1 mg/kg (IM)  Deep sedation: 0.2 - 0.3 mg/kg (IM) or 0.1 mg/kg (IV) | 20 mg/mL | Meat: 1 day  Milk: 0 days | Mild to moderate sedation |
| **Ketamine 10%** | Dissociative general anaesthetic | 0.5 mg/kg | 100 mg/mL | Meat: 3 days  Milk: 2 days | Anaesthetic and analgesic agent |
| **Lidocaine** | Local anaesthetic | 5-6 mg/kg  Toxic dose - 8 mg/kg | 20 mg/mL | Meat: 28 days  Milk: 15 days | Epidural  Field block (with epinephrine).  Perineural anesthesia (with epinephrine).  Arrhythmias.  Intravenous regional anesthesia (IVRA) IVRA.  Surface anesthesia. |
| **Penstrep-400 LA** | Antibiotic agent | 20,000 IU/kg or  500 mg/kg | 200,000 IU/ml | Meat: 21 days  Milk: 3 days | To treat infections caused by penicillin and dihydrostreptomycin sensitive microorganisms |
| **Ivermectin 1%** | Endectocides- macrolytic lactones | 0.2 mg/kg | 10 mg/ml | Meat: 21 days | Effective treatment and control of harmful species of gastrointestinal roundworms, lungworms, grubs, sucking lice and mange mites in cattle |
| **Tetanus antitoxin (for Sheep and Goats)** | Vaccine | 5 ml/animal | 3,000 - 15,000 IU/ml | 0 days | Prophylactic use to reduce the risk of tetanus infection as  a result of accidental injury or as a preoperative precaution |
| **Emergency Drugs** | | | | | |
| **Tolazoline** | Sedative antagonist and alpha-adrenoreceptor blocking agent | 0.2 mg/kg (IV) | 100 mg/mL | Meat: 8 days  Milk: 48 hours | Reversal of xylazine sedation and analgesia. |
| **Atropine** | Parasympatholytic agent | 0.04 mg/kg (IV) | 15 mg/mL | Meat: 3-6 days  Milk: 14-28 days | Prevention or correction of bradycardia and bradyarrhythmia |
| **Epinephrine** | Adrenoceptor stimulant (sympathomimetic). | 0.02 mg/kg (IV) | 1 mg/mL | N/A | Anaphylaxis and cardiac arrest |
| **Lactated ringers solution** | Isotonic crystalloid | 600 - 2000 mL depending on size and condition | Sodium chloride: 8.60 g/l  Potassium chloride: 0.30 g/l  Calcium chloride dihydrate: 0.33 g/l | N/A | To replenish fluids and electrolytes in the treatment of dehydration and electrolyte depletion |
| **Saline solution** | Isotonic crystalloid | Depending on size and condition | 0.9% | N/A | Replacement therapy of sodium, chloride and water which may become depleted in many diseases |
| **Dextrose solution** | Isotonic crystalloid | Mature cattle- 100 - 500 mL | 50% | N/A | Treatment of acetonemia (ketosis) in cattle |