**Lutalyse®**

**Preparation**

Lutalyse® is a progesterone antagonist, available as a sterile solution containing 5 mg dinoprost per mL. It is specifically indicated for use in cattle, including dairy cattle, for both the induction of estrus and the termination of pregnancy.

**INDICATIONS AND USAGE**

1. **Termination of Pregnancy:**
   - Dose: 5 mL intramuscularly for cattle weighing up to 1000 kg, or 2.5 mL for cattle weighing more than 1000 kg.
   - Administration: Usually administered within 10 days of the expected calving date.
   - **NOT** recommended for use in bovine pregnancy testing.

2. **Induction of Estrus:**
   - Dose: 5 mL intramuscularly for cattle weighing up to 1000 kg, or 2.5 mL for cattle weighing more than 1000 kg.
   - Administration: Usually administered when the animal is expected to be ready to breed.

**PRECAUTIONS**

- **Hypersensitivity:** Precautions should be taken in animals with a history of idiosyncratic reactions to dinoprost.
- **Vaccination:** Vaccination should be performed at least 21 days before administration of Lutalyse®.
- **Termination of Pregnancy:** Termination of pregnancy can result in the death of the fetus or abortion with subsequent uterine infection.

**ADVERSE REACTIONS**

- The most common adverse reactions observed in cattle are: incoordination, nesting behavior, itching, urination, defecation, abdominal muscle tremor, decrease in rectal temperature, and abnormal tail movements.
- These effects are usually seen within 15 minutes of injection and disappear within 1-2 hours.

**HOW SUPPLIED**

Lutalyse® Sterile Solution is supplied at a concentration of 5 mg dinoprost per mL, in 30, 10, or 5 mL vials, or as a 100 mL ampoule.

**DOSAGE AND ADMINISTRATION**

1. **Termination of Pregnancy:**
   - Dose: 5 mL intramuscularly for cattle weighing up to 1000 kg, or 2.5 mL for cattle weighing more than 1000 kg.
   - Administration: Usually administered within 10 days of the expected calving date.

2. **Induction of Estrus:**
   - Dose: 5 mL intramuscularly for cattle weighing up to 1000 kg, or 2.5 mL for cattle weighing more than 1000 kg.
   - Administration: Usually administered when the animal is expected to be ready to breed.

**USAGE IN PREGNANT ANIMALS**

- **Termination of Pregnancy:**
  - Dose: 5 mL intramuscularly for cattle weighing up to 1000 kg, or 2.5 mL for cattle weighing more than 1000 kg.
  - Administration: Usually administered within 10 days of the expected calving date.

**SAFETY AND TOXICITY**

The safety of Lutalyse® in pregnant and lactating cows has been evaluated under controlled conditions and has been reported to result in release of pituitary tropic hormones. Data suggest prostaglandins, particularly dinoprost, have been reported to result in release of pituitary tropic hormones. Data suggest prostaglandins, particularly dinoprost, have been reported to result in release of pituitary tropic hormones. Data suggest prostaglandins, particularly dinoprost, have been reported to result in release of pituitary tropic hormones. Data suggest prostaglandins, particularly dinoprost, have been reported to result in release of pituitary tropic hormones.