Carfentanil citrate is a fast-acting and extremely potent synthetic opiate that produces morphine-like analgesia and rapid immobilization following intramuscular injection. Formulated at 3 mg per ml, Carfentanil citrate is an excellent immobilizing agent that can easily be delivered in small darts, resulting in more accurate dart delivery and reduced trauma to the animal.

Indications: Wildlife Immobilization

Carfentanil citrate is exceptionally useful for rapid immobilization and anesthesia of free-ranging and captive members of Cervidae. With dose volumes as low as 1 ml or less, Carfentanil citrate can be loaded into a small-volume dart and accurately delivered with remote drug delivery equipment.

Within minutes of intramuscular administration, animals treated with Carfentanil citrate will become recumbent and will be amenable to routine manipulations and minor surgical procedures. As with all anesthetic procedures, animals treated with Carfentanil citrate must be very carefully monitored and managed.

This drug is extremely potent and must be used only by individuals experienced in handling these types of compounds in field situations. Caution is advised in handling the product to avoid accidental injection or exposure through broken skin and mucous membranes. When using Carfentanil citrate, the reversing agent, Naltrexone HCL (Naltrexone hydrochloride), must always be immediately available.

Carfentanil citrate anesthesia can be reversed safely and rapidly by administering Naltrexone HCL at a dose rate of 100 mg of naltrexone for each mg of carfentanil.

Chemistry & Pharmacology

Carfentanil Citrate is methyl 4- [1-oxopropyl] phenylaminol-1-[2 phenylethyl]-4-piperidinocarboxylate-2 hydroxy-1,2,3-propanetricarboxylate (1:1).

Each ml contains: Carfentanil citrate 4.46 mg (equivalent to 3 mg Carfentanil), sodium chloride 8 mg, methyl paraben 1.8 mg, propyl paraben 0.2 mg in water for injection.

Carfentanil citrate is a synthetic opiate with a clinical potency 10,000 times that of morphine, (Mather, L.E., Clin. Pharm. 8, 1983, pp 422-446).

Carfentanil citrate is a Schedule II Controlled drug substance.

Carfentanil citrate has a morphine-like analgesic mode of action and produces rapid immobilization following intramuscular injection.

How Supplied

Carfentanil citrate is compounded upon prescription in a 10 ml multiple use vial. Each milliliter contains 3 milligrams of Carfentanil citrate. **Net Contents:** 10 ml vial

Each ml contains: Carfentanil citrate 4.46 mg [equivalent to 3 mg Carfentanil], sodium chloride 8 mg, methyl paraben 1.8 mg, propyl paraben 0.2 mg, in water for injection.

Store at controlled room temperature (59-86°F) in a facility consistent with appropriate Drug Enforcement Agency regulations.

For ordering details contact us at: 866-823-9314 info@wildpharm.com
Carfentanil citrate

**Dosage & Administration**

**RECOMMENDED DOSE RANGE FOR CERVIDAE:**

**SPECIES DOSE (mg/kg)**

- Moose (*Alces americana*) 0.006 - 0.014
- Elk (*Cervus elaphus*) 0.005 - 0.020
- Axis Deer (*Axis axis*) 0.005 - 0.010
- Sitka Deer (*Odocoileus hemionus sitkensis*) 0.005 - 0.011

Inject dose deep into a large muscle mass of the neck, shoulder, back or hindquarter. Intrathoracic, intra-abdominal or subcutaneous injection is to be avoided. To ensure proper dosage for animals weighing less than 50 kg, remove required calculated dose of Carfentanil citrate with a tuberculin syringe. Dilute to appropriate volume with sterile water for injection prior to administration.

For members of the family Cervidae, a dose range of 0.005 - 0.020 mg/kg has been found to be safe and effective. Immobilization is usually achieved 2 to 10 minutes following administration. The lower end of the dose range is suggested for those animals of quiet temperament, under confinement, that have not been pursued prior to administration of the drug, or in poor physical condition.

The upper dose range is suggested for animals of excitable temperament following extensive pursuit or in instances where an extremely short time to effect is desirable.

Some exotic species of deer (Eld’s, Pampas, Muntjac, and Indian hog deer) may require a higher dose for immobilization. The highest dose required for immobilization in clinical trails was 0.064mg/kg in Muntjac deer.

**Contraindications & Precautions**

*Warning: Carfentanil citrate is an extremely potent drug. Distribution is restricted to veterinarians engaged in zoo and exotic animal practice; wildlife management programs; and researchers.*

**Caution:** Do not administer 45 days before or during hunting season.

The most effective dose rate will vary due to condition of use. The upper end of the dose range may also be appropriate for animals being pursued by vehicle or aircraft when an extremely quick knockdown time is desired or when individuals are known to be highly excitable. In all instances, all factors including nutritional, reproductive and health status of an animal as well as environmental conditions (temperature, cover and terrain) must be evaluated by the user and best professional judgment used.

Do not use Carfentanil citrate in animals that display clinical signs of severe cardiovascular or respiratory disease or impairment.

Available data are inadequate to recommend use of Carfentanil citrate in pregnant animals. Avoid use during breeding season.

Never use Carfentanil citrate unless antidote or antagonist is on hand.

*Warning: CARFENTANIL CITRATE MUST NEVER BE USED UNLESS ADEQUATE AMOUNT OF THE REVERSAL AGENT, Naltrexone hydrochloride, IS IMMEDIATELY AVAILABLE.*

Naltrexone hydrochloride is antidotal and rapidly reverses the effects of Carfentanil citrate. Administer 100mg of Naltrexone hydrochloride for each milligram of Carfentanil citrate. The calculated dose of antagonist should be administered one-quarter intravenously and three-quarters subcutaneously. Reversal of effects of Carfentanil citrate are usually observed in 2 to 10 minutes.

In order to obtain Carfentanil citrate, purchasers must have a Drug Enforcement Agency (DEA) registration number and be on the DEA’s carfentanil approved user’s list.*

Veterinarians using Carfentanil citrate should be familiar with clinical procedures such as measurement of pulse and respiration, prevention of aspiration, relief of bloat, obstetrics, control of shock and hemorrhage, recognition of hyperventilation and heat exhaustion, the immobilization of fractures, etc. In cases of severe excitement during induction or delayed recovery, continued observation is necessary to correct any of the above and to insure the animal does not injure itself.

*For ordering details contact us toll free: 866-823-9314 or via email: info@wildpharm.com

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