A trusted name in analgesia...
now available with the value you expect from LLOYD, Inc.

Butorphic®
Butorphanol tartrate, opiate agonist-antagonist, has long been a staple in veterinary medicine for fast acting relief of moderate to severe pain.

The Butorphic (injection) brand now provides you the quality clinical performance you demand along with the unprecedented economic advantage you have come to expect from LLOYD, Inc.

- 10 mg/mL
- 20 mL, multi-dose vial
- 3-4 hour duration*

*Treatment should not exceed 48 consecutive hours
ANADA #200-332, Approved by FDA.
Caution: Federal law restricts this drug to use by or on the order of a licensed veterinarian.
A definite dosage-response relationship was detected in that butorphanol dosage of 0.1 mg/kg was more effective than 0.05 mg/kg but not different from 0.2 mg/kg in alleviating deep abdominal pain.

**Acute Equine Studies**

Rapid intravenous administration of butorphanol at a dosage of 2.0 mg/kg (20 times the recommended dosage) to a previously unmedicated horse resulted in a brief episode of inability to stand, muscle fasciculation, a convulsive seizure of 6 seconds duration, and recovery within three minutes. The same dosage administered after 10 successive daily 1.0 mg/kg dosages of butorphanol resulted only in transient sedative effects. During the 10 day course of administration at 1.0 mg/kg (10 times the recommended use level) in two horses, the only detectable drug effects were transient behavioral changes typical of narcotic agonist activity. These included muscle fasciculation about the head and neck, dysphoria, lateral nystagmus, ataxia, and salivation. Repeated administration of butorphanol at 1.0 mg/kg (10 times the recommended dose) every four hours for 48 hours caused constipation in one of two horses.

**Subacute Equine Studies**

Horses were found to tolerate butorphanol given intravenously at dosages of 0.1, 0.3, and 0.5 mg/kg every 4 hours for 48 hours followed by once daily injections for a total of 21 days. The only detectable drug effects were slight transient ataxia observed occasionally in the high dosage group. No clinical, laboratory, or gross or histopathologic evidence of any butorphanol-related toxicity was encountered in the horses.

**INDICATIONS**

Butorphanol Injection is indicated for the relief of pain associated with colic in adult horses and yearlings. Clinical studies in the horse have shown that Butorphanol Injection alleviates abdominal pain associated with tension, impaction, intussusception, spasmodic and tympanic colic, and postpartum pain.

**WARNINGS**

**NOT FOR USE IN HORSES INTENDED FOR FOOD. NOT FOR HUMAN USE.**

**CAUTION**

Butorphanol Injection, a potent analgesic, should be used with caution with other sedative or analgesic drugs as these are likely to produce additive effects.

There are no well-controlled studies using butorphanol in breeding horses, weanlings, and foals. Therefore, the drug should not be used in these groups.

**ADVERSE REACTIONS**

In clinical trials in horses, the most commonly observed side effect was slight ataxia which lasted 3 to 10 minutes. Marked ataxia was reported in 1.5% of the 327 horses treated. Mild sedation was reported in 9% of the horses.

**DOSEAGE**

The recommended dosage in the horse is 0.1 mg of butorphanol per kilogram of body weight (0.05 mg/lb) by intravenous injection. This is equivalent to 5 mL of Butorphanol Injection for each 1000 lbs body weight. The dose may be repeated within 3 to 4 hours but treatment should not exceed 48 hours. Pre-clinical model studies and clinical field trials in horses demonstrate that the analgesic effects of Butorphanol Injection are seen within 15 minutes following injection and persist for about 4 hours.

**SUPPLY**

20 mL vials Butorphanol Injection (butorphanol tartrate) veterinary injection, 10 mg base activity per mL. List No. 4881.

**STORAGE**

Store at controlled room temperature 15° to 30° C (59° to 86° F).