

**Pr****CEPESEDAN™****(Detomidine hydrochloride injection - 10mg/mL)**

Injectable sedative and analgesic for use in horses only - Sterile Solution.

For veterinary use only.

**Active ingredient - Each mL contains:**

Detomidine hydrochloride.....10mg

**Non-medicinal ingredients - Each mL contains:**

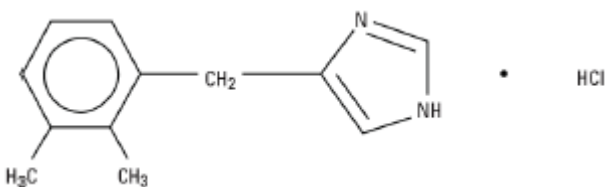
Methylparahydroxybenzoate (preservative).....1mg

Sodium chloride.....5.9mg

Water for injection.....q.s

**Description:** CEPESEDAN™ is a synthetic alpha-2 adrenoceptor agonist with sedative and analgesic properties. The chemical name is 1H-imidazole, 4-[(2,3-dimethylphenyl)methyl]-, hydrochloride and the active ingredient's name is detomidine hydrochloride. It is a white, crystalline, water soluble substance having a molecular weight of 222.7. The molecular formula is C<sub>12</sub>H<sub>14</sub>N<sub>2</sub> · HCl.

Chemical Structure:



**Clinical pharmacology:** CEPESEDAN™, a non-narcotic sedative and analgesic, is a potent  $\alpha$ -2 adrenoceptor agonist which produces sedation and superficial and visceral analgesia which is dose dependent in its depth and duration. Profound lethargy and a characteristic lowering of the head with reduced sensitivity to environmental stimuli (sounds, etc.) are seen with detomidine. A short period of incoordination is characteristically followed by immobility and a firm stance with front legs well spread. The analgesic effect is most readily seen as an increase in the pain threshold at the body surface. With intravenous administration, both superficial and visceral analgesia are seen to depths which allow for such procedures as flank incision after local anesthesia, penetration of the peritoneum, and rectal examinations for diagnosis of colic. Sensitivity to touch is little affected and in some cases may actually be enhanced.

Chemical restraint and pain relief provided by  $\alpha$ -2 adrenoceptor agonists facilitates the handling of fractious animals, and aids in the conduct of uncomfortable diagnostic or therapeutic procedures such as endoscopy, nasogastric tubing and rectal examinations. It also facilitates surgical procedures (with or without local anesthesia) such as suturing of skin lacerations, flank incisions for ovarioectomy, vaginal suturing and castration. With detomidine administration, heart rate is markedly decreased, blood pressure is initially elevated and then a steady decline to normal is seen. A transient change in the conductivity of the cardiac muscle may occur, as evidenced by partial atrioventricular (AV) and sinoauricular (SA) blocks. This change in the conductivity of the cardiac muscle may be prevented by I.V. administration of atropine at a dosage of 0.012 mg/kg of body weight. A diuretic effect is usually observed within 45 to 60 minutes after treatment. Effects on blood clotting time or other hematological parameters was not encountered at dosages of 20 or 40  $\mu$ g per kg of body weight. Respiratory responses include an initial slowing of respiration within a few seconds to 1 to 2 minutes after administration, increasing to normal within 5 minutes. An initial decrease in tidal volume is followed by an increase.

**Indications:** CEPESEDAN™ is indicated for use as a sedative and analgesic to facilitate minor surgical and diagnostic procedures in mature horses and yearlings.

**Dosage and Administration:** Administer CEPESEDAN™ intravenously or intramuscularly at the rates of 20 or 40  $\mu$ g detomidine hydrochloride per kg of body weight (0.2 to 0.4 mL of CEPESEDAN™ per 100 kg or 220 lbs.), depending upon the depth and duration of sedation and analgesia required. Analgesia is more pronounced when the drug is given intravenously. Sedative and analgesic effects will usually occur in 2 to 5 minutes and will persist for 30 minutes to 2 hours, depending upon the dosage and route of administration. **Prior to and following injection, the animal should be allowed to rest quietly. The full effect should be reached within 2 to 4 minutes after I.V. injection and 3 to 5 minutes after intramuscular injection.**

**Contra-indications:** Not to be used in horses with pre-existing AV or SA block, with severe coronary insufficiency, cerebrovascular disease, respiratory disease, liver insufficiency, or chronic renal failure, or horses with general health problems (e.g., dehydrated animals). Detomidine hydrochloride should not be used in breeding horses since the potential risk has not been assessed in either stallions or mares.

**Caution:** The drug is a potent  $\alpha$ -2 agonist which should be used with extreme caution with other sedatives, analgesics, or anesthetics as these are likely to produce additive effects. Careful consideration should be given prior to the administration of CEPESEDAN™ to horses in endotoxic or traumatic shock or approaching shock, to horses with advanced liver or kidney disease or other pre-existing conditions of stress such as extreme heat or cold, high altitude, or fatigue. Intravenous potentiated sulphonamides should not be used in anesthetized or sedated horses as potentially fatal dysrhythmias may occur. Protect treated horses from temperature extremes. Food and water should be withheld until the sedative effect of CEPESEDAN™ has worn off.

**NOTE TO USERS:** Some horses, although apparently deeply sedated, may still respond to external stimuli. Routine safety measures should be employed to protect practitioners and handlers. Allowing the horse to stand quietly for 5 minutes prior to and after injection may improve the response to CEPESEDAN™.

**Warning:** This drug is not to be administered to horses that are to be slaughtered for use in food. Keep out of reach of children.

**Safety studies:** Detomidine hydrochloride is tolerated in horses at up to 200  $\mu$ g per kg of body weight (10 times the low dosage and five times the high dosage). In safety studies in horses, detomidine hydrochloride at 400  $\mu$ g per kg of body weight, administered once a day for 3 consecutive days produced microscopic foci of myocardial necrosis in 1 of 8 horses.

**Adverse reactions:** As with all  $\alpha$ -2-agonists, the potential for isolated cases of hypersensitivity, including paradoxical response (excitation) exists. There has been an occasional appearance of arrhythmia, hypertension, and bradycardia in horses treated with detomidine hydrochloride. Piloerection, sweating and salivation, and occasionally, slight muscle tremors are frequently seen after administration. Partial transient penis prolapse may be seen. Partial atrioventricular and sino-auricular blocks may occur with decreased heart and respiratory rates. Urination typically occurs during recovery at about 45 to 60 minutes post-treatment, depending on dosage. Incoordination or staggering is usually seen only during the first 3 to 5 minutes after injection, until animals have secured a firm footing. Because of continued lowering of the head during sedation, passive congestion may occur occasionally in the lips, the facial area, and the upper airways. Tying the head in a slightly elevated position generally prevents these effects.

**Post-approval experience:** Although all adverse reactions are not reported, the following adverse reaction information is based on voluntary post-approval drug experience reporting. It is generally recognized that this method of reporting results in a significant under-reporting of adverse drug reactions. It should also be noted that suspected adverse drug reactions listed here reflect reporting and not causality. The categories of adverse reactions are listed in decreasing order of frequency by body system:

Immunologic or hypersensitivity: *Urticaria, peripheral hypersensitivity*

Cardiac: *arrhythmia*

Neurological: *ataxia, prolonged sedation*

Musculoskeletal: *muscle tremors*

Respiratory: *hyperventilation (horse with fever, COPD)*

**Storage:** 15-30°C (59-86°F) - Protect from light.

**Presentation:** Supplied in 5 mL and 20 mL multidose vials.

Manufactured for:

**Modern Veterinary Therapeutics, LLC**

Coral Gables, Florida 33146 - USA

www.modernveterinarytherapeutics.com



Made in Germany

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