

## **SUMMARY OF PRODUCT CHARACTERISTICS**

### **1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

HIPNOTON 10 mg/ml solution for injection for horses and cattle

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each ml of solution contains:

**Active substance:**

Detomidine .....8.36 mg  
(as detomidine hydrochloride 10.00 mg)

**Excipients:**

<b>Qualitative composition of excipients and other constituents</b>	<b>Quantitative composition if that information is essential for proper administration of the veterinary medicinal product</b>
Methyl parahydroxybenzoate (E 218)	1.0 mg
Sodium chloride	
Water for injections	

Clear and colourless solution, free from visible particles.

### **3. CLINICAL INFORMATION**

#### **3.1 Target species**

Horses and cattle

#### **3.2 Indications for use for each target species**

Sedation and analgesia in horses and cattle during various examinations and treatments, and in situations where handling of animals will be facilitated by administration of the veterinary medicinal product.

For premedication before administration of injectable or inhalational anaesthetics.

#### **3.3 Contraindications**

Do not use in animals with severe cardiac insufficiency, cardiac abnormalities, pre-existing AV/SA block, severe respiratory disease, or severely impaired liver or kidney function.

Do not use in combination with butorphanol in horses with colic without further monitoring of the horse for signs of clinical deterioration.

Do not use in conjunction with sympathomimetic amines or with intravenous potentiated sulfonamides. Concurrent use with intravenous potentiated sulfonamides may cause cardiac arrhythmia with a fatal outcome. Do not use in cases of hypersensitivity to the active substance or to any of the excipients.

### **3.4 Special warnings**

None

### **3.5 Special precautions for use**

#### Special precautions for safe use in the target species:

A benefit-risk assessment should be performed by the responsible veterinarian prior to administration of the veterinary medicinal product to the following categories of animals: those approaching or in endotoxic or traumatic shock, animals with dehydration or respiratory disease, horses with pre-existing bradycardia, fever, or under extreme stress. During prolonged sedation, monitor body temperature and, if necessary, take measures to maintain normal body temperature.

When the veterinary medicinal product is administered, the animal should be allowed to rest in a maximally quiet place. Before any procedure is initiated, the sedation should be allowed to reach its peak effect (approximately 10–15 minutes following IV administration.). At the onset of the effect, it is to be noted that the animal may stagger and lower its head. Cattle and especially young animals may become recumbent when high detomidine doses are used. In order to minimize the risk of injuries, tympany or aspiration, measures such as selecting a suitable environment for treatment, and lowering the head and neck should be taken.

For horses, fasting for 12 hours before planned anaesthesia is recommended. Food and water should be withheld until the sedative effect of the veterinary medicinal product has worn off.

For painful procedures, the veterinary medicinal product should be combined with (an) other analgesic agent(s).

#### Special precautions to be taken by the person administering the veterinary medicinal product to animals:

Some horses, although apparently deeply sedated, may still respond to external stimuli. Routine safety measures should be employed to protect practitioners and handlers.

Detomidine is an alpha-2 adrenoceptor agonist, which may cause sedation, somnolence, decreased blood pressure and decreased heart rate in humans.

In the case of accidental ingestion or self-injection, seek medical advice immediately and show the package leaflet or the label to the physician, but DO NOT DRIVE as sedation and changes in blood pressure may occur.

Avoid skin, eye, or mucosal contact.

Immediately after exposure, wash the exposed skin with large amounts of fresh water.

Remove contaminated clothes that are in direct contact with skin.

In the case of accidental contact of the veterinary medicinal product with eyes, rinse with large amounts of fresh water. If symptoms occur, seek the advice of a doctor.

If pregnant women handle the veterinary medicinal product, special caution should be observed not to self-inject as uterine contractions and decreased foetal blood pressure may occur after accidental systemic exposure.

To the physician:

Detomidine hydrochloride is an alpha-2 adrenoreceptor agonist. Symptoms after absorption may involve clinical effects including dose dependent sedation, respiratory depression, bradycardia, hypotension, a dry mouth and hyperglycaemia. Ventricular arrhythmias have also been reported. Respiratory and haemodynamic symptoms should be treated symptomatically.

Special precautions for the protection of the environment:

Not applicable

### 3.6 Adverse events

#### Cattle

Very common (>1 animal / 10 animals treated):	Bradycardia, Hypertension (transient), Hypotension (transient) Hyperglycaemia Urination <sup>1</sup> Penile prolapse (transient) <sup>2</sup>
Common (1 to 10 animals / 100 animals treated):	Ruminal tympany <sup>3</sup> , Hypersalivation (transient) Ataxia, Muscle tremor Uterine contraction Nasal discharge <sup>4</sup> , Respiratory depression (slight) <sup>5</sup> Hyperthermia, Hypothermia
Rare (1 to 10 animals / 10 000 animals treated):	Arrhythmia <sup>6</sup> Increased sweating (transient)
Very rare (<1 animal / 10 000 animals treated, including isolated reports):	Excitation Heart block <sup>6</sup> Hyperventilation (slight) <sup>5</sup>

<sup>1</sup> A diuretic effect may be observed 45 to 60 minutes after treatment.

<sup>2</sup> A partial, penis prolapse can occur.

<sup>3</sup> Substances of this class inhibit ruminal and intestinal motility. Can cause a mild bloat in cattle.

<sup>4</sup> Mucus discharge from the nose may be seen because of continued lowering of the head during sedation.

<sup>5</sup> Causes changes in the respiratory rate.

<sup>6</sup> Causes changes in the conductivity of cardiac muscle as evidenced by partial atrioventricular and sinoatrial blocks

## Horses

Very common (>1 animal / 10 animals treated):	Arrhythmia <sup>1</sup> , Bradycardia, Heart block <sup>1</sup> , Hypertension (transient), Hypotension (transient) Hyperglycaemia Ataxia, Muscle tremor Urination <sup>2</sup> Penile prolapse (transient) <sup>3</sup> , Uterine contraction Increased sweating (transient), Piloerection Hyperthermia, Hypothermia
Common (1 to 10 animals / 100 animals treated):	Hypersalivation (transient) Nasal discharge <sup>4</sup> Skin swelling <sup>4</sup>
Rare (1 to 10 animals / 10 000 animals treated):	Colic <sup>5</sup> Urticaria Hyperventilation, Respiratory depression
Very rare (<1 animal / 10 000 animals treated, including isolated reports):	Excitation Hypersensitivity reaction

<sup>1</sup> Causes changes in the conductivity of cardiac muscle as evidenced by partial atrioventricular and sinoatrial blocks.

<sup>2</sup> A diuretic effect may be observed 45 to 60 minutes after treatment.

<sup>3</sup> A partial penis prolapse can occur in stallions and geldings.

<sup>4</sup> Mucus discharges from the nose and oedema of the head and face may be seen because of continued lowering of the head during sedation.

<sup>5</sup> Substances of this class inhibit intestinal motility.

Mild adverse reactions have reportedly resolved uneventfully without treatment. Adverse reactions should be treated symptomatically.

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or its local representative or the national competent authority via the national reporting system. See the package leaflet for respective contact details.

### 3.7 Use during pregnancy, lactation or lay

#### Pregnancy:

Do not use during the last trimester of the pregnancy, as detomidine may cause uterine contractions and a decrease in foetal blood pressure.

Use only according to the benefit-risk assessment by the responsible veterinarian at other stages of gestation.

Laboratory studies in rats and rabbits have not produced any evidence of teratogenic, foetotoxic or maternotoxic effects.

Lactation:

Detomidine is excreted in trace amounts into the milk.

Use only according to the benefit-risk assessment by the responsible veterinarian.

Fertility:

The safety of the veterinary medicinal product has not been investigated in breeding horses.

Use only according to the benefit-risk assessment by the responsible veterinarian.

### **3.8 Interaction with other medicinal products and other forms of interaction**

Detomidine has an additive-synergistic effect with other sedatives, anaesthetics, hypnotics and analgesics and therefore, an appropriate dose adjustment may be needed.

When the veterinary medicinal product is used as a premedication prior to general anaesthesia, the veterinary medicinal product may delay onset of induction.

Detomidine should not be used in conjunction with sympathomimetic amines such as adrenaline, dobutamine and ephedrine, as these agents counteract the sedative effect of detomidine, except in the case of anaesthetic incidents.

For intravenous potentiated sulfonamides, see section 3.3. 'Contraindications'.

### **3.9 Administration routes and dosage**

Intramuscular or intravenous use.

To be administered intramuscularly or by slow intravenous injection of detomidine hydrochloride at a dose of 10–80 µg/kg depending on the degree and duration of sedation and analgesia required. The effect is more rapid after intravenous administration. To ensure a correct dosage, body weight should be determined as accurately as possible.

### Single use (horses and cattle)

Dose		Effect	Duration of effect (hours)	Other effects
ml/100 kg	µg/kg			
0.1–0.2	10–20	Sedation	0.5-1	
0.2–0.4	20–40	Sedation and analgesia	0.5–1	Slight staggering
0.4–0.8	40–80	Deeper sedation and better analgesia	0.5–2	Staggering, sweating, piloerection, muscular tremors

The onset of action occurs 2–5 min after i.v. injection. The full effect is seen 10–15 min after i.v. injection. If necessary, detomidine hydrochloride can be administered up to a total dose of 80 µg/kg.

The following dosing instructions show different possibilities for the combination of detomidine hydrochloride. However, the simultaneous administration with other drugs should always be based on a benefit-risk assessment by the responsible veterinarian and it must be done taking into account the SPC of the relevant veterinary medicinal products.

#### Combinations with detomidine to increase sedation or analgesia in a standing horse

Detomidine hydrochloride 10–30 µg/kg i.v. in combination with either

- butorphanol 0.025–0.05 mg/kg i.v. or
- levomethadone 0.05–0.1 mg/kg i.v. or
- acepromazine 0.02–0.05 mg/kg i.v.

#### Combinations with detomidine to increase sedation or analgesia in cattle

Detomidine hydrochloride 10-30 µg/kg i.v. in combination with

- butorphanol 0.05 mg/kg i.v.

#### Combinations with detomidine for preanaesthetic sedation in the horse

The following anaesthetics can be used after detomidine hydrochloride premedication (10–20 µg/kg) to achieve lateral recumbency and general anaesthesia:

- ketamine 2.2 mg/kg i.v. or
- thiopental 3–6 mg/kg i.v. or
- guaifenesin i.v. (to effect) followed by ketamine 2.2 mg/kg i.v.

Administer the veterinary medicinal product prior to ketamine and allow sufficient time for sedation to develop (5 minutes). Ketamine and the veterinary medicinal product must therefore never be administered simultaneously in the same syringe.

### **Combinations with detomidine and inhalation anaesthetics in the horse**

Detomidine hydrochloride can be used as sedative premedicant (10–30 µg/kg) before induction and maintenance of inhalation anaesthesia. Inhalation anaesthetic is given to effect. The amount of inhalation anaesthetics required is significantly reduced by premedication with detomidine.

### **Combination with detomidine to maintain injection anaesthesia (total intravenous anaesthesia TIVA) in the horse**

Detomidine can be used in combination with ketamine and guaifenesin for maintaining total intravenous anaesthesia (TIVA).

The best-documented solution contains guaifenesin 50–100 mg/ml, detomidine hydrochloride 20 µg/ml and ketamine 2 mg/ml. 1 g ketamine and 10 mg detomidine hydrochloride are added to 500 ml of 5–10% guaifenesin; anaesthesia is maintained by an infusion of 1 ml/kg/h.

### **Combinations with detomidine for induction and maintenance of general anaesthesia in cattle**

Detomidine hydrochloride 20 µg/kg (0.2 ml/100 kg) with

- ketamine 0.5–1 mg/kg i.v., i.m. or
- thiopental 6–10 mg/kg i.v.

The effect of detomidine-ketamine lasts for 20–30 minutes, and the effect of detomidine- thiopental for 10–20 minutes.

## **3.10 Symptoms of overdose (and where applicable, emergency procedures and antidotes)**

Overdosage is mainly manifested by delayed recovery from sedation or anaesthesia. Circulatory and respiratory depression may occur.

If recovery is delayed, it should be ensured that the animal can recover in a quiet and warm place.

Oxygen supplementation and/or symptomatic treatment may be indicated in cases of circulatory and respiratory depression.

The effects of the veterinary medicinal product can be reversed using an antidote containing the active substance, atipamezole, which is an alpha-2 adrenoceptor antagonist. Atipamezole is administered at a dosage 2–10 fold that of this veterinary medicinal product, calculated in µg/kg. For example, if a horse has been given this veterinary medicinal product at a dosage of 20 µg/kg

(0.2 ml/100 kg), the atipamezole dosage should be 40–200 µg/kg (0.8–4 ml/100 kg).

### **3.11. Special restrictions for use and special conditions for use, including restrictions on the use of antimicrobial and antiparasitic veterinary medicinal products in order to limit the risk of development of resistance**

Not applicable

### **3.12 Withdrawal periods**

Horses and cattle  
Meat and offal: 2 days  
Milk: 12 hours

## **4. PHARMACOLOGICAL INFORMATION**

### **4.1 ATCvet code:**

QN05CM90

### **4.2 Pharmacodynamics**

The active substance of this veterinary medicinal product is detomidine. Its chemical structure is 4-(2,3-dimethylbenzyl) imidazole hydrochloride. Detomidine is an alpha-2 adrenoceptor agonist with a central effect inhibiting the transmission of noradrenalin-mediated nervous impulses. In the animal, the level of consciousness is lowered and the pain threshold is increased. The duration and level of sedation and analgesia are dose-dependent.

With detomidine administration, heart rate is 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 sinoatrial (SA) blocks.

Respiratory responses include an initial slowing of respiration within a few seconds to 1–2 minutes after administration, increasing to normal within 5 minutes. Especially at high doses, sweating, piloerection salivation and slight muscle tremors are frequently seen. Partial, transient penis prolapse may occur in stallions and geldings. In cattle, reversible, mild tympany and increased saliva secretion have been observed. Blood sugar concentration is increased in both animal species.

### **4.3 Pharmacokinetics**

Detomidine is rapidly absorbed after intramuscular injection and  $t_{max}$  varies from 15 min to 30 min. Detomidine is also rapidly distributed.  $V_d$  varies between 0.75 L/kg and 1.89 L/kg. Protein binding is 75% to 85%. Detomidine is oxidated mainly in the liver; a small proportion is methylated in the kidneys. Most metabolites are excreted in the urine.  $T_{1/2}$  is 1 - 2 hours. Excretion of detomidine in milk in cattle is low. No detectable amounts are present 23 h after administration.

## **5. PHARMACEUTICAL PARTICULARS**

### **5.1 Major incompatibilities**

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

### **5.2 Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 2 years.  
Shelf life after first opening the immediate packaging: 28 days.

### **5.3 Special precautions for storage**

Keep the vial in the outer carton in order to protect from light.  
Do not refrigerate or freeze.

### **5.4 Nature and composition of immediate packaging**

MA number [to be completed nationally]

Type I clear glass vials of containing 10 ml, closed with a bromobutyl rubber stopper sealed with an aluminium cap with plastic flip-off, in a cardboard box.

Pack sizes:

Cardboard box with 1 vial of 10 ml solution for injection.

### **5.5 Special precautions for the disposal of unused veterinary medicinal products or waste materials derived from the use of such products**

Medicines should not be disposed of via wastewater or household waste.

Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any national collection systems applicable to the veterinary medicinal product concerned.

## **6. NAME OF THE MARKETING AUTHORISATION HOLDER**

VETPHARMA ANIMAL HEALTH, S.L.

## **7. MARKETING AUTHORISATION NUMBER(S)**

Vm 32509/4007

## **8. DATE OF FIRST AUTHORISATION**

01 November 2011

**9. DATE OF THE LAST REVISION OF THE SUMMARY OF THE PRODUCT CHARACTERISTICS**

December 2025

**10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS**

Veterinary medicinal product subject to prescription.

Find more product information by searching for the 'Product Information Database' on [www.gov.uk](http://www.gov.uk).

*Gavin Hall*

Approved 22 February 2026