

Acepromazine Injection



(acepromazine maleate, USP) Rapid acting, 10mg/mL concentration. IM, Sub-Q or IV preanesthetic and tranquilizer for dogs, cats and horses with a low order of toxicity. Can be used as an aid in controlling intractable animals during examination, treatment, grooming, x-ray and minor surgical procedures.

ITEM#	DESCRIPTION	SIZE
501075	Acepromazine Injection	50 mL



Acepromazine Injection



VET one[®] (acepromazine maleate, USP)

Injection

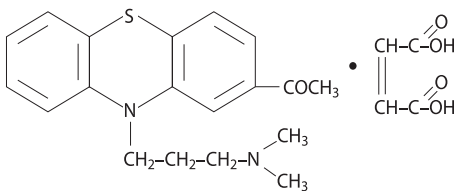
Caution: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

NADA 015-030, Approved by FDA

Description: Acepromazine Injection (acepromazine maleate, USP), a potent neuroleptic agent with a low order of toxicity, is of particular value in the tranquilization of dogs, cats and horses. Its rapid action and lack of hypnotic effect are added advantages. According to Baker,¹ the scope of possible applications for this compound in veterinary practice is only limited by the imagination of the practitioner.

Each mL contains: acepromazine maleate 10 mg, sodium citrate 0.36%, citric acid 0.075%, benzyl alcohol 1% and water for injection.

Acepromazine [10-[3-(dimethyl-amino) propyl] phenothiazin-2-yl-methyl ketone] Maleate, USP has the following chemical structure.



Indications:

DOGS AND CATS: Acepromazine Injection can be used as an aid in controlling intractable animals during examination, treatment, grooming, x-ray and minor surgical procedures; to alleviate itching as a result of skin irritation; as an antiemetic to control vomiting associated with motion sickness.

Acepromazine Injection is particularly useful as a preanesthetic agent (1) to enhance and prolong the effects of barbiturates, thus reducing the requirements for general anesthesia; (2) as an adjunct to surgery under local anesthesia.

HORSES: Acepromazine Injection can be used as an aid in controlling fractious animals during examination, treatment, loading and transportation. Particularly useful when used in conjunction with local anesthesia for firing, castration, neurectomy, removal of skin tumors, ocular surgery and applying casts.

Dosage and Administration: The dosage should be individualized, depending upon the degree of tranquilization required. As a general rule, the dosage requirement in mg/lb of body weight decreases as the weight of the animal increases.

Acepromazine Injection may be given intravenously, intramuscularly or subcutaneously. The following schedule may be used as a guide to IV, IM or SC injections:

DOGS: 0.25–0.5 mg/lb of body weight

CATS: 0.5–1 mg/lb of body weight

HORSES: 2–4 mg/100 lb of body weight

IV doses should be administered slowly, and a period of at least 15 minutes should be allowed for the drug to take full effect.

Contraindications: Phenothiazines may potentiate the toxicity of organophosphates and the activity of procaine hydrochloride. Therefore, do not use Acepromazine Injection (acepromazine maleate, USP) to control tremors associated with organic phosphate poisoning. Do not use in conjunction with organophosphorus vermifuges or ectoparasiticides, including flea collars. Do not use with procaine hydrochloride.

Warning: Do not use in horses intended for human consumption.

Precautions: Tranquilizers are potent central nervous system depressants and they can cause marked sedation with suppression of the sympathetic nervous system.

Tranquilizers can produce prolonged depression or motor restlessness when given in excessive amounts or when given to sensitive animals.

Tranquilizers are additive in action to the actions of other depressants and will potentiate general anesthesia. Tranquilizers should be administered in smaller doses and with greater care during general anesthesia and also to animals exhibiting symptoms of stress, debilitation, cardiac disease, sympathetic blockade, hypovolemia or shock. Acepromazine Injection, like other phenothiazine derivatives, is detoxified in the liver; therefore, it should be used with caution in animals with a

previous history of liver dysfunction or leukopenia.

Hypotension can occur after rapid intravenous injection causing cardiovascular collapse.

Epinephrine is contraindicated for treatment of acute hypotension produced by phenothiazine-derivative tranquilizers since further depression of blood pressure can occur. Other pressor amines, such as norepinephrine or phenylephrine, are the drugs of choice.

In horses, paralysis of the retractor penis muscle has been associated with the use of phenothiazine- derivative tranquilizers. Such cases have occurred following the use of Acepromazine Injection. This risk should be duly considered prior to the administration of Acepromazine Injection to male horses (castrated and uncastrated). When given, the dosage should be carefully limited to the minimum necessary for the desired effect. At the time of tranquilization, it is not possible to differentiate between reversible protrusion of the penis (a normal clinical sign of narcosis) and the irreversible paralysis of the retractor muscle. The cause of this side reaction has not been determined. It has been postulated that such paralysis may occur when a tranquilizer is used in conjunction with testosterone (or in stallions).

Accidental intracarotid injection in horses can produce clinical signs ranging from disorientation to convulsive seizures and death.

Adverse Reactions: A few rare but serious occurrences of idiosyncratic reactions to acepromazine may occur in dogs following oral or parenteral administration. These potentially serious adverse reactions include behavioral disorders in dogs such as aggression, biting/chewing, and nervousness.

To report suspected adverse reactions, to obtain a Material Safety Data Sheet or for technical assistance, call 1-866-638-2226.

Animal Safety: Acute and chronic toxicity studies have shown a very low order of toxicity.

Acute toxicity: The LD₅₀ dose of Acepromazine Injection in mice was determined by means of a probit transformation with the following results:²

Intravenous route — 61.37 mg/kg

Subcutaneous route — 130.5 mg/kg

Oral route — 256.8 mg/kg

Chronic toxicity: Tests³ in rats revealed no deleterious effects on renal or hepatic function

Acepromazine Injection



or on hemopoietic activity. In several groups of two male and two female beagle hounds treated for six months with daily oral doses of 20 to 40 mg/kg, no untoward effects were encountered. Hematologic studies and urinalysis gave values within normal limits. Another group of four dogs, given gradually increasing oral doses up to a level of 220 mg/kg daily and reaching a total daily dose of 2.2 g per dog, showed some signs of pulmonary edema and hyperemia of the internal organs, but no animal died.

When administered intramuscularly, Acepromazine Injection (acepromazine maleate, USP) causes a brief sensation of stinging comparable with that observed with other phenothiazine tranquilizers.

Effectiveness: Controlled clinical studies in the United States and Canada have demonstrated the effectiveness and safety of Acepromazine Injection as a tranquilizer.

Good to excellent results were reported^{1,4,5} in dogs, cats and horses given Acepromazine Injection for restraint during examination, treatment and minor surgery and for preanesthetic sedation. In dogs, the drug reportedly⁴ helps control convulsions associated with distemper.

In both dogs and cats, good to excellent results were obtained⁴ when Acepromazine Tablets were used to control nervousness, excessive vocalization, neurotic and excitable behavior, vomiting associated with motion sickness, coughing and itching caused by dermatitis.

In horses, Bauman⁶ had good results using the drug as an aid in the control of painful spasms due to colic.

Other practitioners^{7,8} found the drug useful as a preanesthetic sedative for nervous or aggressive horses, but it had to be administered while the animals were quiet and not in an excited state. In a trial⁹ on more than 200 horses with a wide variety of disorders, Acepromazine Injection proved to be both effective and safe.

Storage: Store at 20° to 25°C (68° to 77°F), excursions permitted between 15° and 30°C (between 59° and 86°F).

How Supplied: Acepromazine Injection is supplied in 50 mL multiple dose vials that contain 10 mg acepromazine maleate, USP per mL.

NDC 13985-587-50 — 10 mg/mL— 50 mL vial

References:

- ¹ Baker, J.M.: Paper presented at the Ontario Veterinary Association meeting, held in Toronto, Canada, 1958.
- ² Pharmacology Reports, ClinByla Laboratories, Paris, France.
- ³ Stegen, M.G.: Pharmacology Report, Ayerst Laboratories, 1958.
- ⁴ Veterinary Medical Records, Ayerst Laboratories.
- ⁵ Foley, J.T.: Clinical Reports to Ayerst Laboratories, 1963.
- ⁶ Bauman, W.G.: Clinical Reports to Ayerst Laboratories, 1963.
- ⁷ Ford, R.W.: in Equine Panel Report, Mod. Vet. Pract. 40:45 (Nov. 1) 1959.
- ⁸ Baldwin, R.: in Equine Panel Report, Mod. Vet. Pract. 40:46 (Nov. 1) 1959.
- ⁹ Dunkin, T.E.: Clinical Reports to Ayerst Laboratories, 1963.

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