

# PROMETABOL ADE®

Promethabolin injection

**REG. SAGARPA: Q-2083-052**

## FORMULA

Each mL of solution contains:

Nandrolone Decanoate Vitamin 25 mg

A Propionate 100 000 U.I.

Vitamin D3 25,000 U.I.

Vitamin E acetate 25 mg Vehicle c.b.p. 1mL

## PRESENTATIONS

Bottles with 100 and 250 mL.

## INDICATIONS

Reconstituent of long action, indicated in postpartum, weaning and acclimatization. It favors the muscular development of growing animals and exercise. Indicated after deworming, in cases of decreased fertility and under stress, transport, exhaustion, convalescence, delayed animals.

Prometabol ADE is an injectable anabolic preparation, whose active substance is nandrolone decanoate, added to the fat-soluble vitamins A, D, E. The decanoate ester in oily vehicle provides the preparation with an anabolic and restorative action for a period of 3 to 4 weeks post injection.

## PHARMACOKINETICS

After a deep intramuscular application a prolonged absorption is followed, since nandrolone decanoate is added to an oily vehicle which requires up to 4 weeks for complete absorption from the injection site.

Once in blood, nandrolone decanoate has a half-life of 6 hours. It is widely distributed to the tissues, being metabolized in the liver. It is broken down into several metabolites that are excreted in the urine. The elimination period lasts between 3 and 4 hours.

Nandrolone is a compound structurally related to testosterone, which is the male hormone, produced by Leydig cells in the testicle and the adrenal medulla; however, it exerts an anabolic protein effect up to 6 times more powerful than this one, but with the advantage that the effect of masculinization (androgenic effect) is minimal.

By replacing the methyl group of the C10 atom with a hydrogen radical, 19-Nortestosterone (nandrolone) is formed. To this has been added a side chain of 10 carbons, which results in the decanoate.

These molecular changes increase anabolic effects and minimize androgenic effects. In the female, nortestosterone can be formed physiologically by a modification of testosterone. It has been identified in the follicular fluid and in the urine of mares and sows (Kroker, 1991).



As an anabolic, nandrolone influences protein metabolism, resulting in a positive nitrogen balance. This is because the action of nandrolone metabolizes a smaller amount of endogenous protein and a lower amount of nitrogen is secreted.

This extra nitrogen is used in an increased synthesis of protein, which results in an increase in the formation of muscle tissue. The metabolism of fats is also influenced by the action of nandrolone, since they lower blood levels of: cholesterol, phospholipids, fatty acids and triglycerides.

In relation to the metabolism of the minerals necessary for the reconstitution of the body, nandrolone causes the retention of sodium, potassium, calcium, sulfate and phosphate, as well as water. Likewise, the closing of the epiphyseal space is promoted.

In addition to the anabolic properties and its effect on the reconstitution of muscles, and bone metabolism, nandrolone has a slight androgenic effect. In large doses there is an inhibition of gonadotropin secretion in the male, which can lead to oligo or azoospermia. When the drug is removed, a rebound effect will occur, which will increase spermatogenesis transiently. In the female, the inhibition of gonadotropin secretion can cause irregularities in estrus. Water retention, associated with sodium retention, can lead to the appearance of edema that is undesirable when a renal dysfunction is present. Other contraindications are prostate cancer and its use during pregnancy.

Nandrolone is used in cases of convalescence, in recoveries from surgical operations, in chronic liver and kidney diseases and in muscular dystrophies.

## **USE**

Cattle, pigs, sheep, horses, dogs and cats.

## **DOSAGE AND ROUTE OF ADMINISTRATION**

Bovine and Equine: 4 - 8 mL

Calves, Swine and Sheep 2 - 5 mL

Canines and Felines: 0.3 - 1 mL

## **WARNINGS**

Withdrawal period: Do not use this product 30 days before the slaughter of animals destined for human consumption.

Do not use in pregnant females, or in animals with hepatic, cardiac insufficiency or animals with prostatic carcinoma.

Store in a cool, dry place.

Keep out of reach of children.

## **VETERINARY USE**

CONSULT THE VETERINARY PHYSICIAN

YOU'RE SOLD REQUIRES A QUANTIFY MEDICAL RECIPT