

## **DICO**

### Introduction:

*DICO* is an intravaginal device which contains progesterone and is used to synchronize estrus in sheep and goats.

### Action:

The progesterone released by the device has a marked effect on ovarian follicular dynamics. The supraluteal levels of serum progesterone (>1 ng/ml) seen a few minutes after the introduction of the device cause the regression of the dominant follicle and accelerate the appearance of new follicular waves. The discontinuation of secretion of follicular products (estrogen and inhibin) increase the secretion of FSH which will causes a fall in progesterone to sub-luteal levels (<1 ng/ml) which induces an increase in the frequency of LH pulses and the growth and persistence of the dominant follicle with very high concentrations of estradiol which induce estrus and a peak of LH followed by ovulation.

### Formula:

Progesterone.....0.3 g  
Silicone .....e.q.

### Species which the veterinary medicinal product is intended for:

Ovine and Caprine.

### Therapeutic indications:

- Oestrus synchronization in sheep and goats in breeding season.
- Oestrus induction and synchronization in sheep and goats in anoestrous season.
- Complement in treatment of several origin anoestrus in sheep and goats.
- Complement in superovulation and embryo transfer treatments in sheep and goats.

### Dosage:

Use one device containing progesterone 0.3 g for each animal according the following programs:

Ovine:

Breeding season:

Day 0: insert device

Day 12 or 14: remove device + eCG 300 IU

48 hours at remove device: FTAI

Anoestrous season:

Day 0: insert device

Day 6: remove device + eCG 300 IU

48 hours at remove device: FTAI

Caprine:

Breeding season:

Day 0: insert device + Cloprostenol 125 µg

Day 5 or 6: remove device + eCG 300 IU

52 hours at remove device: FTAI

Anoestrous season:

Day 0: insert device

Day 5 or 6: remove device + eCG 300 IU

52 hours at remove device: FTAI

Superovulation and Embryo Transfer:

Day 0: insert device

Day 12: FSH (AM-PM) (Caprine: + Cloprostenol 125 µg)

Day 13: FSH (AM-PM)

Day 14: FSH (AM-PM) + remove device

Day 15: FSH (AM-PM)

Day 16: FTAI (40 hours at remove device)

Day 22-23: embryo recovery

The programs for the use of this product may be modified according to veterinary advice.

Route of administration:

Intravaginal

Toxicity data:

The product has a wide safety margin.

From tolerance studies with target animals it appears that progesterone containing formulations are generally well tolerated.

Data on teratogenicity / embryotoxicity reveal that no congenital disorders are found after treatment with natural progesterone.

According to the International Agency for the research on Cancer (IARC), progesterone does not exhibit mutagenic activity in most in vitro and in vivo test performed.

DL50 (rabbits) IV = 26.5 mg/kg

DL50 (rats) IP = 327 mg/kg

DL50 (mouse) IV = 100 mg/kg

DL50 (neonate) SC = 70 mg/kg

Pharmaceutical form:

Intravaginal devices

Commercial presentation:

-Bag containing 50 intravaginal devices with Progesterone 0.3 g each one.

Withdrawal period:

NIL

Precautions:

- Keep between 10 to 30°C, protected from light.
- In transport, should be kept in a cool, dry place and protected from light.
- Used devices and packaging should be burnt in an appropriate incinerator, buried in an approved landfill, or disposed of by approved methods.

**PRODUCT USE FOR REPRODUCTION MANAGEMENT****VETERINARY USE ONLY****KEEP OUT OF REACH OF CHILDREN**



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