

PACKAGE LEAFLET

DALMAZIN  
75 micrograms/ml  
solution for injection for cows and sows

**1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT**

Marketing authorisation holder and manufacturer:

FATRO S.p.A. - Via Emilia, 285 - Ozzano Emilia (Bologna), Italy.

**2. NAME OF THE VETERINARY MEDICINAL PRODUCT**

*DALMAZIN, 75 micrograms/ml, solution for injection for cows and sows  
(Name in France: Reprosténol)  
d-cloprostenol*

**3. STATEMENT OF THE ACTIVE SUBSTANCE AND OTHER INGREDIENTS**

1 ml contains:

**Active substance:** d-cloprostenol 75 µg - **Excipient:** chlorocresol 1.000 mg

**4. INDICATIONS**

**Cows**

Indications for reproduction: synchronization or induction of oestrus. Induction of parturition after day 270 of gestation.

Therapeutic indications: ovarian dysfunction (persistent corpus luteum, luteal cyst), endometritis/pyometra, delayed uterine involution, induction of abortion in the first half of pregnancy and expulsion of mummified foetuses.

**Sows**

Indications for reproduction: induction of parturition.

**5. CONTRAINDICATIONS**

Do not use in pregnant females, unless it is desirable to induce parturition or induction of abortion.

Do not use in sows which are expected to have a distocic parturition due to abnormal position of the foetus, mechanical obstruction, etc.

Do not use in animals suffering cardiovascular or respiratory diseases.

Do not use in animals with spastic diseases of the respiratory or gastrointestinal tract.

## 6. ADVERSE REACTIONS

Occurrence of anaerobic infection is likely if anaerobic bacteria penetrate the tissue of the injection site. This applies especially to intramuscular injection and in particular to cows. Typical local reactions due to anaerobic infection are swelling and crepitus at the injection site.

When used in cows for induction of parturition and dependent on the time of treatment relative to the date of conception, the incidence of retained placenta may be increased. Behavioural changes seen after treatment for induction of farrowing are similar to those changes associated with natural farrowing and usually cease within one hour.

If you notice any serious effects or other effects not mentioned in this leaflet, please inform your veterinary surgeon.

## 7. TARGET SPECIES

Cattle (cows) and Pigs (sows and gilts).

## 8. DOSAGE FOR EACH SPECIES, ROUTE AND METHOD OF ADMINISTRATION

### Cows

Administer 2 ml of DALMAZIN, equivalent to 150 micrograms of d-cloprostenol/animal by intramuscular route. Repeat after 11 days for the synchronisation of oestrus.

The dose of 2 ml equivalent to 150 micrograms of d-cloprostenol/animal by intramuscular route can be repeated for the induction of oestrus and for the treatment of ovarian dysfunction, endometritis/pyometra and delayed uterine involution.

In particular:

- Induction of oestrus (also in cows showing weak or silent heat): administer DALMAZIN after having established the presence of a corpus luteum (6-18<sup>th</sup> day of the cycle); heat usually appears within 48-60 hours. Proceed, therefore, with insemination 72-96 hours after injection. If oestrus is not evident, administration of the product needs to be repeated 11 days after the first injection.
- Synchronisation of oestrus: administer DALMAZIN twice, with an interval of 11 days between each dose. Proceed therefore with two artificial inseminations at intervals of 72 and 96 hours from the second injection.
- Induction of parturition: administer DALMAZIN after 270 days of pregnancy. Birth usually results within 30-60 hours of treatment.
- Mummified foetus: expulsion of the foetus is observed within 3-4 days after administration of DALMAZIN.
- Induction of abortion: administer DALMAZIN in the first half of pregnancy.
- Ovarian dysfunction (persistent corpus luteum, luteal cysts): administer DALMAZIN, then proceed to inseminate at the first oestrus after injection. If oestrus is not evident, conduct a further gynaecological examination, and repeat the injection 11 days after the first administration. Insemination must always be carried out 72-96 hours after injection.
- Endometritis, pyometra: administer DALMAZIN. If necessary repeat the treatment after 10-11 days.
- Delayed uterine involution: administer DALMAZIN and, if considered necessary, carry out one or two successive treatments at 24 hour intervals.

### Sows

Administer 1 ml of DALMAZIN, equivalent to 75 micrograms of d-cloprostenol/animal, by

intramuscular route, not earlier than 112 days of pregnancy. Repeat after 6 hours. Alternatively, 20 hours after the initial dose of DALMAZIN, a myometrial stimulant (oxytocin or carazolol) may be administered.

Following the protocol of the double administration, approximately 70-80% of the animals will give birth during the interval between 20 and 30 hours after the first administration.

## 9. ADVICE ON CORRECT ADMINISTRATION

As with every prostaglandin-based product, injection in contaminated skin areas is to be avoided in order to reduce the risk of infection with anaerobic bacteria.

The injection site must be thoroughly cleaned and disinfected before administration.

## 10. WITHDRAWAL PERIODS

*Meat and offal:*

cattle	Zero days
swine	1 day

*Milk:* Zero hours

## 11. SPECIAL STORAGE PRECAUTIONS

Keep out of the reach and sight of children.

Do not store above 25°C.

Shelf-life after first opening the container: 28 days.

Do not use after the expiry date which is stated on the label.

## 12. SPECIAL WARNINGS

### Special warnings for each target species

None.

### Special precautions for use in animals

As with parenteral administration of any substance, basic antiseptic rules should be observed.

The injection site must be thoroughly cleaned and disinfected in order to reduce the risk of infection with anaerobic bacteria.

Induction of labour before the 111th day of gestation may cause mortality in piglets and an increase in the number of sows that require manual assistance.

Do not administer by intravenous route.

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

Prostaglandins of the F<sub>2α</sub> type can be absorbed through the skin and may cause bronchospasm or miscarriage.

Care should be taken when handling the product to avoid self-injection or skin contact.

Women of child-bearing age, asthmatics and people with bronchial or other respiratory problems, should avoid contact with, or wear disposable plastic gloves when administering the product.

Accidental spillage on the skin should be washed off immediately with soap and water.

In case of accidental self injection seek medical advice and show the label to the

physician.

Should shortness of breath result from accidental inhalation or injection, seek urgent medical advice and show the doctor this warning.

Do not eat, drink or smoke while handling the product.

#### **Use during pregnancy, lactation or lay**

Do not use in gestating animals unless it is desirable to induce parturition or therapeutic induction of abortion.

#### **Interactions with other medicinal products and other forms of interaction**

Do not administer the treatment together with non-steroidal anti-inflammatory drugs since they inhibit endogenous prostaglandin synthesis.

The activity of other oxytocic agents can be increased after the administration of cloprostenol.

#### **Overdose (symptoms, emergency procedures, antidotes), if necessary**

At 10 times the therapeutic dose, no adverse reactions were reported. In general, a large overdose could result in the following symptoms: increased pulse and breathing rate, bronchoconstriction, increased body temperature, increased amounts of loose faeces and urine, salivation and vomiting. As no specific antidote has been identified, in the case of overdose, symptomatic therapy is advisable. An overdose will not accelerate corpus luteum regression.

#### **Incompatibilities**

None known.

### **13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

### **14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED**

.....

### **15. OTHER INFORMATION**

DALMAZIN is a sterile aqueous solution containing 75 micrograms/ml of dextrorotatory cloprostenol, a synthetic analogue of the prostaglandin  $F_{2\alpha}$ .

d-cloprostenol, the dextrorotatory enantiomer, constitutes the biologically active component of the racemic cloprostenol molecule and results in an approximate 3.5-fold increase in activity.

Administered in the luteal phase of the oestrus cycle, d-cloprostenol induces functional and morphological regression of the corpus luteum (luteolysis) resulting in a sharp fall in progesterone levels. The increased release of the follicle stimulating hormone (FSH), induces the follicular maturation followed by signs of oestrus and by ovulation.

Pharmacokinetic studies demonstrate a rapid absorption of d-cloprostenol. The peak blood level is reached a few minutes following intramuscular administration, as well as a rapid diffusion to the ovaries and uterus, the organs in which the maximum concentration is reached 10-20 minutes after administration.

Following intramuscular administration of 150 micrograms of d-cloprostenol in the cow, the peak plasma level ( $C_{max}$ ) of 1.4 micrograms/l is reached after approximately 90 minutes, while the elimination half life ( $t_{1/2\beta}$ ) is in the order of 1 hour 37 minutes. In sows, a  $C_{max}$  of approximately 2 micrograms/l is observed between 30 and 80 minutes following administration of 75 micrograms d-cloprostenol, with an elimination half life in the order of 3 hours 10 minutes.

**Pack sizes:**

2-ml vial + syringe

Fifteen 2-ml vials

Sixty 2-ml vials

10-ml vial

Ten 10-ml vials

20-ml vial

Five 20-ml vials

Not all pack sizes may be marketed.

**IE Only** VPA 10836/001/001 **POM** Prescription Only Medicine

**UK Only** Vm 11557/4000 **POM-V** To be supplied only on veterinary prescription

UK and IE authorised veterinary medicinal product

For animal treatment only

Distributed in the UK and Ireland by:

Duggan Veterinary Supplies Ltd.

Holycross, Thurles,

Co. Tipperary, E41A093, Ireland

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

2 ml vial + syringe – Fifteen 2 ml vials – Sixty 2 ml vials – 10 ml vial –  
Ten 10 ml vials – 20 ml vial – five 20 ml vials

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

*DALMAZIN, 75 micrograms/ml, solution for injection for cows and sows*  
(Name in France: *Reprosténo*)  
d-cloprostenol

**2. STATEMENT OF ACTIVE AND OTHER SUBSTANCES**

1 ml contains:

**Active substance:** d-cloprostenol 75 µg - **Excipient:** chlorocresol

**3. PHARMACEUTICAL FORM**

Solution for injection.

**4. PACKAGE SIZES**

2-ml vial + syringe  
Fifteen 2-ml vials  
Sixty 2-ml vials  
10-ml vial  
Ten 10-ml vials  
20-ml vial  
Five 20-ml vials

**5. TARGET SPECIES**

Cattle (cows) and Pigs (sows and gilts).

**6. INDICATION(S)**

--- --- ---

**7. METHOD AND ROUTE OF ADMINISTRATION**

For intramuscular administration.  
Read the package leaflet before use.

**8. WITHDRAWAL PERIODS**

Meat and offal:  
*cattle* Zero days  
*swine* 1 day

*Milk:* Zero hours

**9. SPECIAL WARNING(S), IF NECESSARY**

Read the package leaflet before use.

**10. EXPIRY DATE**

EXP {month/year}

Once broached, use by 28 days.

**11. SPECIAL STORAGE CONDITIONS**

Do not store above 25 °C.

**12. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

**13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, if applicable**

For animal treatment only.  
To be supplied only on veterinary prescription.

**14. THE WORDS “KEEP OUT OF THE REACH AND SIGHT OF CHILDREN”**

Keep out of the reach and sight of children.

**15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

FATRO S.p.A. - Via Emilia, 285 - Ozzano Emilia (Bologna), Italy.

Distributed in the UK and Ireland by:  
Duggan Veterinary Supplies Ltd.  
Holycross, Thurles,  
Co. Tipperary, E41A093, Ireland

**16. MARKETING AUTHORISATION NUMBER**

Vm 11557/4000

**17. MANUFACTURER'S BATCH NUMBER**

Batch {number}

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS  
2 ml vial

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

*DALMAZIN, 75 micrograms/ml, solution for injection for cows and sows*  
(Name in France: ReprosténoI)  
d-cloprostenol

**2. QUANTITY OF THE ACTIVE SUBSTANCE(S)**

--- --- ---

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

2-ml vial

**4. ROUTE OF ADMINISTRATION**

For i.m. administration.

**5. WITHDRAWAL PERIODS**

--- --- ---

**6. BATCH NUMBER**

Batch {number}

**7. EXPIRY DATE**

EXP {month/year}  
Once broached, use by 28 days.

**8. THE WORDS "FOR ANIMAL TREATMENT ONLY"**

For animal treatment only.



MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS  
10 ml vial – 20 ml vial

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

*DALMAZIN, 75 micrograms/ml, solution for injection for cows and sows*  
(Name in France: *Reprosténo*)  
d-cloprostenol

**2. QUANTITY OF THE ACTIVE SUBSTANCE(S)**

d-cloprostenol 75 µg

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

10-ml vial  
20-ml vial

**4. ROUTE OF ADMINISTRATION**

For i.m. administration.

**5. WITHDRAWAL PERIODS**

Meat and offal:  
*cattle* Zero days  
*swine* 1 day

*Milk:* Zero hours

**6. BATCH NUMBER**

Batch {number}

**7. EXPIRY DATE**

EXP {month/year}

Once broached, use by 28 days.

**8. THE WORDS “FOR ANIMAL TREATMENT ONLY”**

For animal treatment only.

Approved: 24 April 2018

