

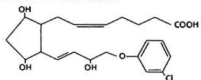
# Estrumate® (cloprostenol sodium)

## Prostaglandin Analogue for Cattle

Equivalent to 250 mcg cloprostenol/mL

### BRIEF SUMMARY (For full Prescribing Information, see package insert.)

Estrumate® (cloprostenol sodium) is a synthetic prostaglandin analogue structurally related to prostaglandin F<sub>2</sub> α (PGF<sub>2</sub> α). Each mL of the colorless aqueous solution contains 263 mcg of cloprostenol sodium (equivalent to 250 mcg of cloprostenol) in a sodium citrate, anhydrous citric acid and sodium chloride buffer containing 0.1% w/v chlorocresol BP as a bactericide. pH is adjusted, as necessary, with sodium hydroxide or citric acid.



### ACTION:

Estrumate causes functional and morphological regression of the *corpus luteum* (luteolysis) in cattle. In normal, nonpregnant cycling animals, this effect on the life span of the *corpus luteum* usually results in estrus 2 to 5 days after treatment. In animals with prolonged luteal function (pyometra, mummified fetus, and luteal cysts), the induced luteolysis usually results in resolution of the condition and return to cyclicity. Pregnant animals may abort depending on the stage of gestation.

### INDICATIONS:

For intramuscular use to induce luteolysis in beef and dairy cattle. The luteolytic action of Estrumate can be utilized to manipulate the estrous cycle to better fit certain management practices, to terminate pregnancies resulting from mismatings, and to treat certain conditions associated with prolonged luteal function.

### REQUIREMENTS FOR CONTROLLED BREEDING PROGRAMS:

A variety of programs can be designed to best meet the needs of individual management systems. A controlled breeding program should be selected which is appropriate for the existing circumstances and management practices.

Before a controlled breeding program is planned, the producer's objectives must be examined and he must be made aware of the projected results and limitations. The producer and his consulting veterinarian should review the operation's breeding history, herd health, and nutritional status and agree that a controlled breeding program is practical in the producer's specific situation. For any successful controlled breeding program:

- cows and heifers must be normal, nonpregnant, and cycling (rectal palpation should be performed);
- cattle must be in a fit and thrifty breeding condition and on an adequate or increasing plane of nutrition;
- proper program planning and record keeping are essential;
- if artificial insemination is used, it must be performed by competent inseminators using high-quality semen.

It is important to understand that Estrumate is effective only in animals with a mature *corpus luteum* (ovulation must have occurred at least 5 days prior to treatment). This must be considered when breeding is intended following a single Estrumate injection.

### SAFETY AND TOXICITY:

At 50 and 100 times the recommended dose, mild side effects may be detected in some cattle. These include increased uneasiness, slight frothing, and milk let-down.

### CONTRAINDICATIONS:

Estrumate should not be administered to a pregnant animal whose calf is not to be aborted.

### PRECAUTIONS:

There is no effect on fertility following the single or double dosage regimen when breeding occurs at induced estrus or at 72 and 96 hours posttreatment. Conception rates may be lower than expected in those fixed time breeding programs which omit the second insemination (ie, the insemination at or near 96 hours). This is especially true if a fixed time insemination is used following a single Estrumate injection. As with all parenteral products, careful aseptic techniques should be employed to decrease the possibility of postinjection bacterial infection. Antibiotic therapy should be employed at the first sign of infection.

### DOSAGE AND ADMINISTRATION:

Two mL of Estrumate (500 mcg of cloprostenol) should be administered by *INTRAMUSCULAR INJECTION* for all indications in both beef and dairy cattle.

Do not puncture stopper more than 10 times.

### WARNINGS

For veterinary use only.

Women of childbearing age, asthmatics, and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. In the early stages, women may be unaware of their pregnancies. Estrumate is readily absorbed through the skin and may cause abortion and/or bronchospasms; direct contact with the skin should therefore be avoided. Accidental spillage on the skin should be washed off immediately with soap and water.

### STORAGE CONDITIONS:

1. Protect from light.
2. Store in container.
3. Store at controlled room temperature 59°-86° F. (15°-30° C).

### HOW SUPPLIED:

20mL and 100mL multidose vials

### CAUTION:

Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.



Schering-Plough Animal Health

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# FERTAGYL®

## (GONADORELIN)

FOR INJECTION FOR THE TREATMENT OF  
CYSTIC OVARIES IN CATTLE

ANADA NO. 200-134, Approved by FDA

### FOR ANIMAL USE ONLY

### CAUTION

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

**Brief Summary** (for full Prescribing Information, see package insert).

### DESCRIPTION

FERTAGYL® is a sterile solution containing 43µg/mL gonadorelin (GnRH: equivalent to µg/mL gonadorelin diacetate tetrahydrate) suitable for intramuscular or intravenous administration.

### ADVERSE REACTIONS

Intramuscular administration of 1000µg gonadorelin diacetate tetrahydrate to normally cycling dairy cattle had no effect on hematology or blood chemistry. No known side effects when used as directed.

Keep refrigerated: 2° - 8°C (36° - 46°F).

Marketed by: Intervet /Schering-Plough Animal Health, Roseland, New Jersey 07068

# CHORULON®

NADA NO. 140-927;  
APPROVED BY FDA

### FOR ANIMAL USE ONLY

### CAUTION

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

**Brief Summary:** (For full Prescribing Information, see package insert).

### DESCRIPTION

CHORULON® is a freeze-dried preparation of chorionic gonadotropin (human Chorionic Gonadotropin or hCG) for intramuscular administration after reconstitution.

### ADVERSE REACTIONS

Chorionic gonadotropin is a protein. In the unlikely event of an anaphylactic reaction, epinephrine should be administered. The administration of an antihistamine may also be indicated.

### RESIDUE WARNINGS

No withdrawal period is required for cows or brood finfish treated according to label directions. The total dose administered (all injections combined) should not exceed 25,000 I.U. (25mL) per fish in fish intended for human consumption.

Intervet /Schering-Plough Animal Health  
Roseland, New Jersey 07068