

# SUMMARY OF PRODUCT CHARACTERISTICS

## **1. Name of the veterinary medicinal product**

MARBOCYL 2% SOLUTION FOR INJECTION VETERINARY

## **2. Qualitative and quantitative composition**

One ml contains:

Active substance(s):

Marbofloxacin.....	20.0 mg
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Excipient(s):

Disodium edetate.....	0.1 mg
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Thioglycerol.....	0.5 mg
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m-cresol .....	2.0 mg
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For a full list of excipients, see section 'List of excipients'.

## **3. Pharmaceutical form**

Solution for injection.

Yellow green to yellow brown aqueous solution.

## **4. Clinical particulars**

### **4.1. Target species**

Bovines and porcines during fattening.

### **4.2. Indications for use, specifying the target species**

In pre-ruminant and ruminant calves:

- Treatment of respiratory infections caused by susceptible strains of *Pasteurella multocida*, *Mannheimia (Pasteurella) haemolytica* and *Mycoplasma bovis*.

In pigs:

- Treatment of respiratory infections caused by susceptible strains of *Actinobacillus pleuropneumoniae*, *Mycoplasma hyopneumoniae* and *Pasteurella multocida*.

The product should only be used when strain susceptibility has been tested.

### **4.3. Contraindications**

Do not administer in the event of bacteria resistant to other fluoroquinolones (cross-resistance).

Do not administer to an animal with known hypersensitivity to marbofloxacin or to another quinolone.

#### **4.4. Special warnings for each target species**

None.

#### **4.5. Special precautions for use**

##### **i) Special precautions for use in animals**

Fluoroquinolones should only be used to treat clinical disorders not responding sufficiently to other antibiotic classes, or when it is expected they will not respond sufficiently to other antibiotic classes. Bacterial sensitivity tests to antibiotics should be carried out before using fluoroquinolones whenever possible, and should take account of official and local antibiotic use policies. Off-label use of the product may increase the prevalence of fluoroquinolone-resistant bacteria and may reduce the efficacy of the treatment with other quinolones, given the risk of cross-resistance.

##### **ii) Special precautions to be taken by the person administering the medicinal product to animals**

None.

##### **iii) Other precautions**

None.

#### **4.6. Side effects (frequency and severity)**

Administration by subcutaneous and intramuscular route may cause temporary swelling. Administration by intramuscular route may cause pain and inflammatory lesions at the injection site. Inflammatory lesions can last for 6 days in pigs and 12 days in calves.

##### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form

<https://sideeffects.health.gov.il/>

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

Studies on laboratory animals (rats, rabbits) have shown no evidence of teratogenic, embryotoxic or maternotoxic effects from marbofloxacin.

Use of the product should be determined on the basis of the risk-benefit analysis as evaluated by the veterinarian.

See section 'Withdrawal period'.

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

None known.

#### **4.9. Posology and route of administration**

In preruminant and ruminant calves:

2 mg marbofloxacin per kg live weight, i.e. 1 ml of solution per 10 kg live weight in a daily subcutaneous or intramuscular injection for 3 to 5 days. The first injection can also be administered intravenously.

In pigs:

2 mg marbofloxacin per kg live weight and per day, i.e. 1 ml of solution per 10 kg live weight in a daily intramuscular injection for 3 to 5 days.

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

No sign of overdose has been observed after administration of 3 times the recommended dose of marbofloxacin.

Marbofloxacin overdose may cause signs such as acute neurological disorders which should be treated symptomatically.

#### **4.11. Withdrawal period**

Meat and offal: In preruminant and ruminant calves: 6 days.

Pigs: 4 days.

Milk: the product should not be administered to animals producing milk for human consumption.

### **5. Pharmacological properties**

Pharmacotherapeutic group: anti-infective for systemic use (fluoroquinolone).

ATC-vet code: QJ01MA93.

#### **5.1. Pharmacodynamic properties**

Marbofloxacin is a synthetic, bactericidal antimicrobial, belonging to the fluoroquinolone group. It acts by inhibition of DNA gyrase. Its spectrum of action is broad, targeted against Gram positive bacteria (especially *Staphylococcus*), Gram negative bacteria (*Escherichia coli*, *Pasteurella multocida*, *Mannheimia (Pasteurella) haemolytica* and *Actinobacillus pleuropneumoniae*) and mycoplasma (*Mycoplasma bovis* and *Mycoplasma hyopneumoniae*).

Resistance to *Streptococcus* may be encountered.

#### **5.2. Pharmacokinetic characteristics**

After subcutaneous or intramuscular administration in cattle and pigs at the recommended dose of 2mg/kg, marbofloxacin is readily absorbed and reaches peak plasma concentrations of around 1.5µg/ml within less than one hour.

Its bioavailability is close to 100%.

Marbofloxacin is weakly bound to plasma proteins (less than 10% in pigs and 30% in cattle), and is extensively distributed in the body. In most tissue (liver, kidney, skin, lung, uterus) it achieves a higher concentration than in plasma.

Marbofloxacin is eliminated slowly in preruminant calves ( $t_{1/2}$  = 5-9 hours) and pigs ( $t_{1/2}$  = 8-10 hours), more rapidly in ruminant cattle ( $t_{1/2}$  = 4-7 hours) and mainly in active form in the urine and faeces.

### **6. Pharmaceutical information**

#### **6.1. List of excipients**

Disodium edetate

Thioglycerol

m-cresol

Gluconolactone

Mannitol

Water for injection

## **6.2. Major incompatibilities**

Do not mix this product with other medicinal products.

## **6.3. Shelf life**

The expiry date of the product is indicated on the packaging materials.

Shelf life after first opening the primary packaging: 28 days.

## **6.4. Special precautions for storage**

Store below 25°C.

## **6.5. Nature and composition of immediate packaging**

Type II amber glass vial  
rubber stopper

## **6.6. Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products**

The empty packaging and any remaining product should be disposed of in accordance with current practices governed by regulations on waste materials.

## **7. Manufacturer**

VETOQUINOL  
70204 LURE CEDEX  
FRANCE

## **8. Registration holder**

LINEVITZ ELIEZER LTD.  
KANOT INDUSTRIAL AERA, ADOM 6 ST., P.O.B 7006.

## **9. Registration number(s)**

083-94-92387-00

Box of one 100 ml vial.

Approved in July 2020.