

IRISH MEDICINES BOARD ACT 1995

ANIMAL REMEDIES REGULATIONS, 2005

(S.I. No. 734 of 2005)

VPA: **10983/028/001**

Case No: 7003107

The Irish Medicines Board in exercise of the powers conferred on it by Animal Remedies Regulations (S.I. No. 734 of 2005) hereby grants to:

Vetoquinol Ireland Limited

Wilton Place, Dublin 2, Ireland

an authorisation, subject to the provisions of the said Regulations and the general conditions of the attached authorisation, in respect of the Veterinary Medicinal Product:

Marbocyl 5mg Tablets

The particulars of which are set out in Part 1 and Part 2 of the said Schedule. The authorisation is also subject to any special conditions as may be specified in the said Schedule.

Signed on behalf of the Irish Medicines Board

A person authorised in that behalf by the said Board.

(NOTE: This authorisation replaces any previous authorisation in respect of this product which is now null and void.)

Part II

Summary of Product Characteristics

1 NAME OF THE VETERINARY MEDICINAL PRODUCT

Marbocyl 5 mg Tablets

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains:

Active substance

Marbofloxacin 5mg

For a full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

White, circular divisible tablets.

4 CLINICAL PARTICULARS

4.1 Target Species

Dogs and cats.

4.2 Indications for use, specifying the target species

In dogs

Marbofloxacin tablet is indicated in the treatment of:

- skin and soft tissue infections (intertrigo, folliculitis, impetigo, furunculosis, cellulitis) caused by susceptible strains.
- lower and upper urinary tract infections (UTI) associated or not with prostatitis or epididymitis caused by susceptible strains.
- respiratory tract infections caused by susceptible strains.

In cats

Marbofloxacin tablet is indicated in the treatment of skin and soft tissue infections (wounds, abscesses, phlegmons) and upper respiratory tract infections caused by susceptible strains.

4.3 Contraindications

Do not use in animals with known hypersensitivity to the active ingredient.

Although studies have demonstrated the safety of marbofloxacin in medium-size juvenile dogs at doses up to 6 mg/kg/d for 13 weeks, marbofloxacin should not be used in giant breeds of dogs aged less than 1 year.

4.4 Special warnings for each target species

None.

4.5 Special precautions for use

Special precautions for use in animals

None.

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

None.

4.6 Adverse reactions (frequency and seriousness)

Hypersensitivity (allergic) reactions may occur in treated animals.

At the recommended therapeutic dosage, no severe side-effects are to be expected in dogs and cats.

Fluoroquinolones have been shown to induce erosion of articular cartilage in juvenile dogs and care should be taken to dose accurately, especially in young animals.

Mild side effects may occasionally occur such as vomiting, softening of faeces, modification of thirst or transient increase in activity. These signs cease spontaneously after treatment and do not necessitate cessation of treatment.

4.7 Use during pregnancy, lactation or lay

Marbofloxacin may be used in pregnant and lactating queens and bitches.

4.8 Interaction with other medicinal products and other forms of interaction

Fluoroquinolones are known to interact with orally administered cations (Aluminium, Calcium, Magnesium, Iron). In such cases, the bioavailability may be reduced.

The dosage of theophylline must be reduced when used concurrently.

4.9 Amounts to be administered and administration route

The recommended dose rate is 2 mg/kg/d (1 tablet per 2.5 kg per day) in a single daily administration.

DOGS

- in skin and soft tissue infections, treatment duration is at least 5 days. Depending on clinical evolution, it may be extended up to 40 days.

- in lower urinary tract infections, treatment duration is at least 10 days. In case of associated prostatitis or epididymitis or in case of upper urinary tract infections, treatment may be extended up to 28 days.

- in respiratory infections, treatment duration is at least 7 days and depending on the course of the disease, it may be extended up to 21 days.

CATS

- for skin and soft tissue infections (wounds, abscesses, phlegmons) treatment duration is 3 to 5 days.

- for upper respiratory infections, treatment duration is 5 days.

4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary

Overdose may cause acute signs in the form of neurological disorders which would have to be treated symptomatically.

4.11 Withdrawal Period(s)

Not applicable.

5 PHARMACOLOGICAL or IMMUNOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Marbofloxacin is a synthetic, bactericidal antimicrobial, belonging to the fluoroquinolone group which acts by inhibition of DNA gyrase. It is effective against a wide range of Gram positive bacteria (in particular *Staphylococci*, *Streptococci*) and Gram negative bacteria (*Escherichia coli*, *Salmonella typhimurium*, *Citrobacter freundii*, *Enterbacter cloacae*, *Serratia marcescens*, *Morganella morganii*, *Proteus spp*, *Klebsiella spp*, *Shigella spp*, *Pasteurella spp*, *Haemophilus spp*, *Moraxella spp*, *Pseudomonas spp*, *Brucella canis*) as well as *Mycoplasma spp*.

5.2 Pharmacokinetic properties

After oral administration in dogs and cats at the recommended dose of 2 mg/kg, marbofloxacin is readily absorbed and reaches maximal plasma concentrations of 1.5 µg/ml within 2 hours.

Its bioavailability is close to 100%.

It is weakly bound to plasma proteins (less than 10%), extensively distributed and in most tissues (liver, kidney, skin, lung, bladder, digestive tract) it achieves higher concentrations than in plasma. Marbofloxacin is eliminated slowly ($t_{1/2\beta} = 14$ h in dogs and 10 h in cats) predominantly in the active form in urine (2/3) and faeces (1/3).

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Lactose
Povidone
Microcrystalline Cellulose
Anhydrous Colloidal Silica
Crospovidone
Hydrogenated Castor Oil
Magnesium Stearate

6.2 Incompatibilities

None known.

6.3 Shelf-life

Shelf life of the veterinary medicinal product as packaged for sale: 36 months.

6.4 Special precautions for storage

This veterinary medicinal product does not require and special storage conditions.

6.5 Nature and composition of immediate packaging

Marbofloxacin tablets are packaged in PVC/aluminium thermoshaped blister packs.

Boxes of:

- 10 tablets (1 blister of 10 tablets)
- 20 tablets (2 blisters of 10 tablets)
- 30 tablets (3 blisters of 10 tablets)
- 40 tablets (4 blisters of 10 tablets)
- 50 tablets (5 blisters of 10 tablets)
- 100 tablets (10 blisters of 10 tablets)

Not all pack sizes may be marketed.

6.6 Special precautions for the disposal of unused veterinary medicinal products or waste materials

Unused product or waste material should be disposed of in accordance with current guidelines for pharmaceutical waste under national waste disposal regulations.

7 MARKETING AUTHORISATION HOLDER

Vetoquinol Ireland Limited
Wilton Place
Dublin 2

8 MARKETING AUTHORISATION NUMBER(S)

VPA 10983/28/1

9 DATE OF THE FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

19th December 2005