

# Summary of Product Characteristics

## 1 NAME OF THE VETERINARY MEDICINAL PRODUCT

Carprodyl Quadri 120 mg chewable tablets for dogs

## 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

**Active substance:** One tablet contains:

Carprofen..... 120 mg

For the full list of excipients, see section 6.1.

## 3 PHARMACEUTICAL FORM

Chewable tablet.

Clover-shaped scored beige tablet

The tablet can be divided into four equal parts

## 4 CLINICAL PARTICULARS

### 4.1 Target Species

Dogs.

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

In the dog:

Reduction of inflammation and pain caused by musculo-skeletal disorders and degenerative joint disease.

As a follow-up to parenteral analgesia in the management of post-operative pain.

### 4.3 Contraindications

Do not use in pregnant and lactating bitches.

Do not use in dogs aged less than 4 months in the absence of specific data.

Do not use in cats.

Do not use in dogs, suffering from cardiac, hepatic or renal disease, when there is a possibility of gastrointestinal ulceration or bleeding or where there is evidence of blood dyscrasia.

Do not use in case of hypersensitivity to the active substance, to other NSAID and to any of the excipients.

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

See sections 4.3 and 4.5.

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

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

Use in dogs less than 6 weeks of age, or in aged dogs, may involve additional risk. If such a use cannot be avoided, dogs may require a reduced dosage and careful clinical management.

Avoid use in any dehydrated, hypovolaemic or hypotensive dog, as there is a potential risk of increased renal toxicity.

Concurrent administration of potential nephrotoxic drugs should be avoided.

NSAID can cause inhibition of phagocytosis and hence in the treatment of inflammatory conditions associated with bacterial infection, appropriate concurrent antimicrobial therapy should be instigated.

As with other NSAID, photodermatitis during treatment with carprofen has been observed in laboratory animals and in humans. These skin reactions have never been observed in dogs. Do not administer other NSAID concurrently or within 24 hours of each other. Some NSAID may be highly bound to plasma proteins and compete with other highly bound drugs, which can lead to toxic effects.

Due to the good palatability of the tablet, they should be stored in a safe place out of the reach of animals. Intake of dose exceeding the recommended number of tablets may lead to severe adverse effects. If this is the case, seek veterinary assistance immediately.

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

In case of accidental ingestion, seek medical advice immediately and show the package leaflet to the physician.

Wash hands after handling the product.

#### **4.6 Adverse reactions (frequency and seriousness)**

Typical undesirable effects associated with NSAID, such as vomiting, soft faeces/diarrhea, faecal occult blood, loss of appetite and lethargy have been reported. These adverse reactions generally occur within the first treatment week and are in most cases transient and disappear following termination of the treatment but in very rare cases may be serious or fatal.

If adverse reactions occur, use of the product should be stopped and the advice of a veterinarian should be sought.

As with other NSAID there is a risk of rare renal or idiosyncratic hepatic adverse events.

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

Studies in laboratory species (rat and rabbit) have shown evidence of foetotoxic effects of carprofen at doses close to the therapeutic dose. The safety of the veterinary medicinal product has not been established during pregnancy and lactation. Do not use in pregnant or lactating bitches.

For breeding animals, do not use during reproduction period.

#### **4.8 Interaction with other medicinal products and other forms of interactions**

Carprofen is highly bound to plasma proteins and compete with other highly bound drugs, which can increase their respective toxic effects.

Do not use this veterinary medicinal drug concurrently with other NSAID or with glucocorticoids.

Concurrent administration of potentially nephrotoxic drugs (e.g. aminoglycoside antibiotics) should be avoided.

Refers also to section 4.5

#### **4.9 Amounts to be administered and administration route**

For oral administration.

4 mg carprofen per kg bodyweight per day.

An initial dose of 4 mg carprofen per kg bodyweight per day given as a single daily dose. The analgesic effect from each dose persists for at least 12 hours.

The daily dose may be reduced, subject to clinical response.

Duration of treatment will be dependent upon the response seen. Long term treatment should be under regular veterinary supervision.

To extend analgesic and anti-inflammatory cover post-operatively parenteral pre-operative treatment with an injectable carprofen may be followed with carprofen tablets at 4 mg/kg/day for 5 days.

Do not exceed the stated dose.

Tablets can be broken as follows: Put the tablet on a flat surface, with its scored side facing the surface (convex face up).

With the tip of forefinger, exert a slight vertical pressure on the middle of the tablet to break it into halves. In order to obtain quarters, then exert a slight pressure on the middle of one half with forefinger.

Each chewable tablet can be quartered for accurate dosing according to the individual body weight of the animal.

Number of tablets per day	Dog weight (kg)
1/4	> 7.5 - < 14.4
1/2	≥ 14.5 - < 20.9
3/4	≥ 21 - < 29.9
1	≥ 30 - < 37.4
1 1/4	≥ 37.5 - < 44.9
1 1/2	≥ 45 - < 52.4
1 3/4	≥ 52.5 - < 59.9
2	≥ 60 - < 70

The chewable tablets are flavoured and are accepted by dogs. The chewable tablets can be administered with or without food.

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

Bibliographic data report that carprofen is well tolerated in dogs at twice the recommended dosage for 42 days.

There is no specific antidote to carprofen but general supportive therapy as applied to clinical overdose with NSAIDs should be applied.

#### **4.11 Withdrawal period(s)**

Not applicable.

### **5 PHARMACOLOGICAL or IMMUNOLOGICAL PROPERTIES**

ATCvet code: QM01AE91

Pharmacotherapeutic group: anti-inflammatory, NSAID, aryl propionic acids

#### **5.1 Pharmacodynamic properties**

Carprofen is a non-steroidal anti-inflammatory drug (NSAID), of the 2-aryl propionic acid class and possesses anti-inflammatory, analgesic and antipyretic activities.

The mechanism of action of carprofen, is not well known. However, it was shown that the inhibition of the cyclo-oxygenase enzyme by carprofen is relatively weak at the recommended dosage. Moreover, it was shown that carprofen doesn't inhibit the generation of thromboxane (TX) B<sub>2</sub> in dog clotting blood and neither prostaglandin (PG) E<sub>2</sub> nor 12-hydroxyeicosatetraenoic acid (HETE) in inflammatory exudate are inhibited. This suggests the mechanism of action of carprofen is not the inhibition of

the eicosanoids. Some authors suggested an activity of carprofen on one or numerous inflammatory mediators not yet identified but no clinical evidence could be shown.

Carprofen exists in two enantiomeric forms, R(-)-carprofen and S(+)-carprofen and the racemic form is the one marketed. Laboratory animal studies suggest that the S(+) enantiomer possesses greater anti-inflammatory potency.

Ulcerogenic potential of carprofen has been shown in the rodents but not in the dogs.

## **5.2 Pharmacokinetic particulars**

After a single oral administration of 4 mg of carprofen per kg of bodyweight in dog, the time to obtain a maximum plasmatic concentration of 23µg/ml is about 2 hours. The oral bioavailability is more than 90% of the total dose. Carprofen is more than 98% bound to plasma proteins and its volume of distribution is low.

Carprofen is excreted in the bile with 70 % of an intra-venous dose of carprofen being eliminated in the faeces, mainly as the glucuronide conjugate. Carprofen undergoes an enantioselective enterohepatic cycle in dog, with only the S(+) enantiomer being significantly recycled. The plasmatic clearance of the S(+) carprofen is about twice that of the R(-) carprofen. The biliary clearance of S(+) carprofen seems to be subject to stereoselectivity too as it is about three times higher than that of R(-) carprofen.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Pig liver flavour

Yeast,

Croscarmellose sodium, Copovidone,

Magnesium stearate, Anhydrous colloidal silica, Microcrystalline cellulose, Lactose monohydrate.

### **6.2 Major incompatibilities**

Not applicable.

### **6.3 Shelf-life**

Shelf-life of the veterinary medicinal product as packaged for sale: 3 years

Shelf-life after first opening the immediate packaging: 72 hours

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

Do not store above 30°C

Protect from light.

Divided tablets should be stored in the blister pack. Any divided tablet portions remaining after 72 hours should be discarded.

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

Blister complex: PVDC-PVC/Aluminium heat sealed blisters with 6 tablets / blister.

Cardboard box with 2 blisters of 6 tablets.

Cardboard box with 20 blisters of 6 tablets.

Cardboard box with 40 blisters of 6 tablets.

Cardboard box with 80 blisters of 6 tablets.

Not all pack sizes may be marketed.

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

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

### **7 MARKETING AUTHORISATION HOLDER**

Ceva Santé Animale  
10, avenue de La Ballastière  
33500 Libourne  
France

### **8 MARKETING AUTHORISATION NUMBER(S)**

VPA10815/045/002

### **9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first authorisation: 24<sup>th</sup> March 2017