

**ANNEX I**  
**SUMMARY OF PRODUCT CHARACTERISTICS**

## 1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Quadrisol 100 mg/ml oral gel for horses

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml of Quadrisol oral gel contains:

### Active substance:

Vedaprofen: 100 mg

### Excipients:

Propylene glycol: 130 mg

For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Oral gel

## 4. CLINICAL PARTICULARS

### 4.1 Target species

Horse.

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

Reduction of inflammation and relief of pain associated with musculo-skeletal disorders and soft tissue lesions (traumatic injuries and surgical trauma). In cases of anticipated surgical trauma, Quadrisol can be given prophylactically at least 3 hours prior to elective surgery.

### 4.3 Contraindications

Do not use in animals suffering from alimentary tract disorders, impaired heart, liver and kidney function. Do not use in foals under the age of 6 months. Do not use in lactating mares. Do not use in the case of hypersensitivity to the active substance or to any of the excipients.

### 4.4 Special warnings for each target species

Horses intended for racing and competition should be treated according to local requirements. Appropriate precautions must be taken for such horses to ensure compliance with competition regulations. In case of doubt, it is advisable to test the urine.

### 4.5 Special precautions for use

#### Special precautions for use in animals

If side effects occur, treatment should be discontinued. Horses with oral lesions should be assessed clinically and the attending veterinarian should take a decision as to whether treatment should be continued. If oral lesions persist, treatment should be discontinued. Horses should be monitored for oral lesions during treatment. Avoid use in any dehydrated, hypovolaemic or hypotensive animals, as there may be potential risk of increased renal toxicity.

### 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 or the label to the physician.

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

Typical undesirable effects associated with NSAID use, such as lesions in the alimentary tract, soft faeces, urticaria and lethargy.

Side effects are reversible.

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

Can be used during pregnancy.

The safety of the veterinary medicinal product has not been established during lactation

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

Other NSAIDs, diuretics and substances with high protein binding may compete for binding and lead to toxic effects. Quadrisol must not be given with other NSAIDs or glucocorticosteroids.

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

For oral use.

Twice daily administration. An initial dose of 2 mg/kg (2.0 ml/100 kg) is followed by a maintenance dose of 1 mg/kg (1.0 ml/100 kg) given every 12 hours. Treatment can be continued for a maximum of 14 consecutive days. In case of prophylactic treatment, a maximum duration of treatment of 7 consecutive days is sufficient.

Bodyweight and dosage must be accurately determined to avoid overdosing.

The gel is administered orally by inserting the nozzle of the syringe through the interdental space and depositing the required amount of gel on the back of the tongue. Before administration, the syringe should be adjusted to the calculated dosage by setting the ring on the plunger.

It is advisable to administer the product before feeding.

In cases of anticipated surgical trauma, Quadrisol can be given prophylactically at least 3 hours prior to elective surgery.

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

Lesions and bleedings in the alimentary tract, diarrhoea, urticaria, lethargy, inappetence. If symptoms occur, treatment should be discontinued. Symptoms are reversible. Overdosing may lead to death of treated animals.

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

Meat and offal: 12 days

Not authorised for use in animals producing milk for human consumption.

## **5. PHARMACOLOGICAL PROPERTIES**

Pharmacotherapeutic group: non-steroidal anti-inflammatory drug

ATCvet code: QM01AE90

## **5.1 Pharmacodynamic properties**

Vedaprofen is a non-steroidal anti-inflammatory drug (NSAID) belonging to the propionic acid derivate group. Vedaprofen inhibits the prostaglandin synthesis enzyme system (cyclo-oxygenase enzyme) and thus possesses anti-inflammatory, antipyretic and analgesic properties. Studies in the horse have demonstrated potent inhibition of prostaglandin E<sub>2</sub> (PG E<sub>2</sub>) synthesis in exudate and thromboxane B<sub>2</sub> synthesis in serum and exudate. Vedaprofen contains an asymmetric carbon atom and, therefore, is a racemic mixture of a (+) enantiomer and a (-) enantiomer. Both enantiomers contribute to therapeutic actions of the compound. The (+) enantiomer is more potent in inhibiting prostaglandin synthesis. Both enantiomers are equipotent PGF<sub>2α</sub> antagonists.

## **5.2 Pharmacokinetic particulars**

Vedaprofen is rapidly absorbed following oral administration. Bioavailability after oral administration is 80-90%, but is reduced significantly if medication is administered with food. The terminal half-life following oral administration is 350-500 minutes and no accumulation occurs following repeated oral dosing. Steady state is reached quickly following onset of treatment. Vedaprofen is highly bound to plasma proteins and extensively metabolised. The most abundant metabolite is a monohydroxylated derivative. All metabolites of vedaprofen were shown to be less active than the parent compound as determined by a thromboxane B<sub>2</sub> formation inhibition assay. Approximately 70% of an orally administered dose is excreted in the urine.

# **6. PHARMACEUTICAL PARTICULARS**

## **6.1 List of excipients**

Water (minimum purified grade),  
Propylene glycol,  
Hydroxyethylcellulose,  
Potassium hydroxide (E525),  
Hydrochloric acid,  
Chocolate flavour.

## **6.2 Major incompatibilities**

None known.

## **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: 2 months.

## **6.4 Special precautions for storage**

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

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

A 30 ml adjustable multidose syringe consisting of high density polyethylene (white) and low density polyethylene (white and natural). The syringe is fitted with variable dose capability, adjustable in steps of 0.5 ml and graduated to 1 ml. The product is presented as a single syringe in a carton box or as a multipack of 3 syringes in a carton box.

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

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

**7. MARKETING AUTHORISATION HOLDER**

VETCOOL B.V.  
Otto Hahnweg 24  
3542 AX Utrecht  
NETHERLANDS

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

EU/2/97/005/001  
EU/2/97/005/005

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

Date of first authorisation: 4 December 1997  
Date of last renewal: 13 November 2007

**10. DATE OF REVISION OF THE TEXT**

Detailed information on this veterinary medicinal product is available on the website of the European Medicines Agency (<http://www.ema.europa.eu>).

**PROHIBITION OF SALE, SUPPLY AND/OR USE**

Not applicable.

**ANNEX II**

- A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE**
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**
- C. STATEMENT OF THE MRLs**

**A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE**

Name and address of the manufacturer responsible for batch release

Purna Pharmaceuticals N.V.  
Rijksweg 17  
B-2870 Puurs  
BELGIUM

**B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**

Veterinary medicinal product subject to prescription.

**C. STATEMENT OF THE MRLs**

The active substance in Quadrisol is an allowed substance as described in table 1 of the annex to Commission Regulation (EU) No 37/2010:

Pharmacologically active substance	Marker residue	Animal species	MRLs	Target tissues	Other provisions
vedaprofen	vedaprofen	Equidae	1000 µg/kg 100 µg/kg 50 µg/kg 20 µg/kg	Kidney Liver Muscle Fat	

The excipients listed in section 6.1 of the SPC are either allowed substances for which table 1 of the annex to Commission Regulation (EU) No 37/2010 indicates that no MRLs are required or considered as not falling within the scope of Regulation (EC) No 470/2009 when used as in this veterinary medicinal product.

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**



## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**100 mg/ml oral gel for horses**

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

Quadrisol 100 mg/ml oral gel for horses

**2. STATEMENT OF ACTIVE SUBSTANCES**

Vedaprofen: 100 mg/ml

**3. PHARMACEUTICAL FORM**

Oral gel.

**4. PACKAGE SIZE**

Adjustable dose syringe, containing 30 ml gel  
3 adjustable dose syringes, each containing 30 ml gel

**5. TARGET SPECIES**

Horse.

**6. INDICATION(S)**

Reduction of inflammation and relief of pain.

**7. METHOD AND ROUTE(S) OF ADMINISTRATION**

For oral use.  
Read the package leaflet before use.

**8. WITHDRAWAL PERIOD(S)**

Withdrawal period(s):  
Meat and offal: 12 days.  
Not authorised for use in lactating animals producing milk for human consumption.

**9. SPECIAL WARNINGS, IF NECESSARY**

If side effects occur, treatment should be discontinued.  
Do not use in lactating mares.  
For full contra-indications, see package leaflet.

**10. EXPIRY DATE**

EXP: {Month/year}

**11. SPECIAL STORAGE CONDITIONS**

No special precautions for storage.  
Shelf-life after first opening the immediate packaging: 2 months.

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

Disposal: read package leaflet.

**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 SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children.

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

VETCOOL B.V.  
Otto Hahnweg 24  
3542 AX Utrecht  
NETHERLANDS

**16. MARKETING AUTHORISATION NUMBER(S)**

EU/2/97/005/001 (1 x 30 ml)  
EU/2/97/005/005 (3 x 30 ml)

**17. MANUFACTURER’S BATCH NUMBER**

Lot: {number}

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

{label on the syringe}

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

Quadrisol 100 mg/ml oral gel for horses

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

Vedaprofen: 100 mg/ml  
Propylene glycol: 130 mg/ml

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

30 ml

**4. ROUTE(S) OF ADMINISTRATION**

For oral use.

**5. WITHDRAWAL PERIOD(S)**

Withdrawal period(s):  
Meat and offal: 12 days

**6. BATCH NUMBER**

Lot: {number}

**7. EXPIRY DATE**

EXP: {Month/year}

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

For animal treatment only.

**B. PACKAGE LEAFLET**

**PACKAGE LEAFLET:  
Quadrisol 100 mg/ml oral gel for horses**

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

Marketing authorisation holder:

VETCOOL B.V.  
Otto Hahnweg 24  
3542 AX Utrecht  
NETHERLANDS

Manufacturers responsible for batch release:

Purna Pharmaceuticals N.V.  
Rijksweg 17  
B-2870 Puurs  
BELGIUM

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

Quadrisol 100 mg/ml oral gel for horses.

**3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER INGREDIENT(S)**

Vedaprofen:	100 mg/ml
Propylene glycol:	130 mg/ml

**4. INDICATION(S)**

Reduction of inflammation and relief of pain associated with musculo-skeletal disorders and soft tissue lesions (traumatic injuries and surgical trauma). In cases of anticipated surgical trauma, Quadrisol can be given prophylactically at least 3 hours prior to elective surgery

**5. CONTRAINDICATIONS**

Do not use in animals suffering from alimentary tract disorders, impaired heart, liver and kidney function. Do not use in foals under the age of 6 months. Do not use in lactating mares. Quadrisol must not be given with other NSAIDs or glucocorticosteroids. Do not use in the case of hypersensitivity to the active substance or to any of the excipients.

**6. ADVERSE REACTIONS**

Typical non-steroidal anti-inflammatory drugs (NSAIDs) side effects such as lesions and bleedings in the alimentary tract, diarrhoea, urticaria, lethargy, inappetence. If symptoms occur, treatment should be discontinued. Symptoms are reversible. Overdosing may lead to death of treated animals.

If you notice any side effects, even those not already listed in this package leaflet or you think that the medicine has not worked, please inform your veterinary surgeon.

## **7. TARGET SPECIES**

Horse.

## **8. DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION**

Quadrisol is intended for twice daily administration. The advised dosage is an initial dose of 2 mg/kg (2.0 ml/100 kg) followed by a maintenance dose of 1 mg/kg (1.0 ml/100 kg) given every 12 hours.

For oral use.

## **9. ADVICE ON CORRECT ADMINISTRATION**

Treatment can be continued for a maximum of 14 consecutive days. Bodyweight and dosage rate must be accurately determined to avoid overdosing. In case of prophylactic treatment, a maximum duration of treatment of 7 consecutive days is sufficient.

The gel is administered orally by inserting the nozzle of the syringe through the interdental space and depositing the required amount of gel on the back of the tongue. Before administration, the syringe should be adjusted to the calculated dosage by setting the ring on the plunger.

It is advisable to administer the product before feeding.

## **10. WITHDRAWAL PERIOD(S)**

Meat and offal: 12 days.

Not authorised for use in lactating animals producing milk for human consumption.

## **11. SPECIAL STORAGE PRECAUTIONS**

Keep out of the sight and reach of children.

No special precautions for storage.

Shelf-life after first opening of the product: 2 months.

Do not use this veterinary medicinal product after the expiry date which is stated on the label after EXP.

## **12. SPECIAL WARNING(S)**

The safety of the veterinary medicinal product has not been established during lactation. Quadrisol 100 mg/ml can be used during pregnancy.

Horses with oral lesions should be assessed clinically and the attending veterinarian should take a decision as to whether treatment should be continued. If oral lesions persist, treatment should be discontinued.

Horses should be monitored for oral lesions during treatment. Avoid the use in any dehydrated, hypovolaemic or hypotensive animals, as there may be potential risk of increased renal toxicity.

Horses intended for racing and competition should be treated according to local requirements. Appropriate precautions must be taken for such horses to ensure compliance with competition regulations. In case of doubt, it is advisable to test the urine.

In case of accidental ingestion by a person, seek medical advice immediately and show the package leaflet or the label to the physician.

**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**

Detailed information on this product is available on the website of the European Medicines Agency (<http://www.ema.europa.eu/>)

**15. OTHER INFORMATION**

For animal treatment only.