

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Flukanide 30 mg/ml oral suspension for sheep

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml contains:

Active substance:

Rafoxanide	30.00 mg
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Excipients:

Tartrazine yellow (E102)	0.07 mg
Propyl parahydroxybenzoate (E216)	0.20 mg
Methyl parahydroxybenzoate (E218)	2.00 mg

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Oral suspension.

Yellow suspension.

4. CLINICAL PARTICULARS

4.1 Target species

Sheep.

4.2 Indications for use, specifying the target species

For the treatment of liver fluke (*Fasciola hepatica*) infections (6-8 week immature and adult).

4.3 Contraindications

Do not use in cases of hypersensitivity to the active substance or to any of the excipients.

4.4 Special warnings for each target species

Unnecessary use of antiparasitics or use deviating from the instructions given in the SPC may increase the resistance selection pressure and lead to reduced efficacy. The decision to use the product should be based on confirmation of the parasitic species and burden, or of the risk of infection based on its epidemiological features, for each individual flock.

Care should be taken to avoid the following practices because they increase the risk of development of resistance and could ultimately result in ineffective therapy:

- Too frequent and repeated use of anthelmintics from the same class, over an extended period of time.
- Underdosing, which may be due to underestimation of bodyweight, mis-administration of the product or lack of calibration of the dosing device.

Resistance to rafoxanide has been reported in immature 6-week-old *Fasciola hepatica* in artificially infected sheep in Australia (1989). In the study, two isolates of *Fasciola hepatica* that were resistant to rafoxanide were also resistant to closantel (another salicylanilide), indicating possible side resistance. However, the fluke isolates resistant to rafoxanide and closantel did not demonstrate side resistance to the salicylanilide oxclozanide.

Suspected clinical cases of resistance to anthelmintics should be further investigated using appropriate tests (e.g. Faecal Egg Count Reduction Test). Where the results of the tests strongly suggest resistance to a particular anthelmintic, an anthelmintic belonging to another pharmacological class and having a different mode of action should be used.

4.5 Special precautions for use

Special precautions for use in animals

When a dosing gun is used to administer the product, care must be taken to avoid damage to the pharyngeal region.

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

This product may be irritating to skin and eyes or cause hypersensitivity. People with known hypersensitivity to rafoxanide or any of the listed excipients should avoid contact with the product. Wear nitrile rubber gloves when applying the product. Do not eat, drink, or smoke while handling the product. If accidental contact with the skin or eyes occurs, wash off any skin contamination with soap and water immediately. Rinse the affected eyes thoroughly with clean, fresh water. Remove and wash any contaminated clothing immediately. Wash hands after use.

Environmental precautions

Rafoxanide is very toxic to dung insects. Long term effects on dung insects caused by continuous or repeated use cannot be excluded. Therefore, the product must only be administered once per year to affected animals only.

4.6 Adverse reactions (frequency and seriousness)

None.

4.7 Use during pregnancy, lactation or lay

Can be used during pregnancy.

(see section 4.11).

4.8 Interaction with other medicinal products and other forms of interaction

None known.

4.9 Amounts to be administered and administration route

For oral administration.

To be given orally at a dose of 11.25 mg rafoxanide per kg bodyweight equivalent to 3 ml of product per 8 kg bodyweight.

Accuracy of the dosing device should be checked.

Underdosing could result in ineffective use and may favour resistance development.

To ensure a correct dosage, body weight should be determined as accurately as possible. If animals are to be treated collectively, reasonably homogeneous groups should be set up, and all animals of a group should be dosed at the rate corresponding to the heaviest one.

The timing for treatment should be based on epidemiological factors and should be customised for each individual farm. As with other anthelmintics, veterinary advice should be sought on appropriate dosing programmes and stock management to achieve adequate parasite control and reduce the likelihood of resistance developing.

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

No specific signs.

4.11 Withdrawal period(s)

Meat: 78 days

Milk: Not authorised for use in ewes producing milk for human consumption including during the dry period. Do not use within 1 year prior to the first lambing in ewes intended to produce milk for human consumption.

5. PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Anthelmintics, rafoxanide.
ATC vet code: QP52AG05.

5.1 Pharmacodynamic properties

The product contains the active ingredient rafoxanide, a halogenated salicylanilide. Its principal use is as a flukicide against 6-8 week immature and mature *F. hepatica*. The product acts by uncoupling oxidative phosphorylation. Liver flukes treated *in vivo* or *in vitro* with rafoxanide show indirect evidence of uncoupling, including reduced ATP levels, decreased glycogen content and accumulation of succinate. This results in paralysis and death of the fluke. The product also binds strongly to plasma

proteins and is inactive until ingested by the parasite and separated from the plasma albumin by digestion. For this reason, rafoxanide does not affect the host's mitochondria *in vivo*.

5.2 Pharmacokinetic particulars

Halogenated salicylanilides are strongly bound to plasma proteins. After oral administration of the product rafoxanide is slowly absorbed reaching peak plasma concentrations approximately 2 days post treatment and its elimination half-life is approximately 22 days.

5.3 Environmental properties

Rafoxanide is very persistent in soils.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Methyl parahydroxybenzoate (E218)
Propyl parahydroxybenzoate (E216)
Xanthan gum
Tartrazine yellow (E102)
Simethicone emulsion
Polysorbate 20
Propylene glycol
Colloidal anhydrous silica
Citric acid monohydrate
Purified water

6.2 Major incompatibilities

None known.

6.3 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 36 months. Following withdrawal of the first dose, use the product within 3 months.

6.4 Special precautions for storage

Do not freeze.

6.5 Nature and composition of immediate packaging

1, 2.5 and 5 litre high density polyethylene (HDPE) white containers with 38 mm white wadded polypropylene caps.

This product may be marketed with or without an outer carton.

Not all pack sizes may be marketed.

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

Medicines should not be disposed of via wastewater. Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

Rafoxanide should not enter water courses as this may be dangerous for fish and other aquatic organisms.

7. MARKETING AUTHORISATION HOLDER

Univet Limited
Tullyvin
Cootehill
County Cavan
H16 T183
Ireland

8. MARKETING AUTHORISATION NUMBER

Vm 05150/4009

9. DATE OF FIRST AUTHORISATION

19 April 2023

10. DATE OF REVISION OF THE TEXT

December 2024

Gavin Hall

Approved 22 December 2024