

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Tolracol 50 mg/ml oral suspension for pigs, cattle and sheep

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

1 ml of oral suspension contains:

Active substance:

Toltrazuril 50 mg

Excipients:

Sodium benzoate (E211) 2.1 mg

Sodium propionate (E281) 2.1 mg

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Oral suspension.

Thick white suspension.

4. CLINICAL PARTICULARS

4.1 Target species

Pigs (Piglet 3 - 5 days old).

Cattle (calves on dairy farms).

Sheep (lambs).

4.2 Indications for use, specifying the target species

Pigs:

For the prevention of clinical signs of coccidiosis in neonatal piglets (3 – 5 days) on farms with a confirmed history of coccidiosis caused by *Cystoisospora suis*.

Cattle:

For the prevention of clinical signs of coccidiosis and reduction of oocyst shedding in housed calves replacing cows producing milk for human consumption (dairy cows) on farms with a confirmed history of coccidiosis caused by *Eimeria bovis* or *Eimeria zuernii*.

Sheep:

For the prevention of clinical signs of coccidiosis and reduction of oocyst shedding in lambs on farms with a confirmed history of coccidiosis caused by *Eimeria crandallis* and *Eimeria ovinoidalis*.

4.3 Contraindications

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

Cattle (for environmental reasons):

Do not use in calves weighing more than 80 kg bodyweight.

Do not use in veal or beef calves.

For more details see sections 4.5, other precautions and section 5, environmental properties.

4.4 Special warnings for each target species

As with any antiparasiticide, frequent and repeated use of antiprotozoals from the same class may lead to the development of resistance.

It is recommended to treat all animals in a pen. Hygienic measures may reduce the risk of coccidiosis. It is therefore, recommended to improve concomitantly the hygienic conditions in the concerned facility, particularly with regard to dryness and cleanliness. To obtain maximum benefit, animals should be treated before the expected onset of clinical signs, i.e. in the prepatent period. Treatment during an outbreak will be of limited value for the individual animal, because of damage to the small intestine having already occurred. To alter the course of an established clinical coccidial infection, in individual animals already showing signs of diarrhoea, additional supportive therapy may be required.

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

People with known sensitivity to toltrazuril or any of the excipients should avoid contact with this veterinary medicinal product.

Do not eat, drink or smoke while using the product.

Avoid skin and eye contact with the product.

Wash any splashes from skin or eyes immediately with water.

Other precautions

In order to prevent any adverse effects on plants and possible contamination of groundwater, manure from treated calves must not be spread onto land without dilution with manure from untreated cattle. Manure from treated calves must be diluted with at least 3 times the weight of manure from untreated cattle before it can be spread onto land.

Lambs kept throughout the whole life span indoors under an intensive rearing system must not be treated beyond the age of 6 weeks or body weight of more than 20 kg at treatment. Manure from treated animals should only be applied to the same piece of land every third year.

4.6 Adverse reactions (frequency and seriousness)

None known.

4.7 Use during pregnancy, lactation or lay

Not applicable.

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 use.

The oral suspension must be shaken before use.

To ensure administration of a correct dose, body weight should be determined as accurately as possible.

To obtain maximum benefit, animals should be treated before the expected onset of clinical signs, i.e. in the prepatent period.

Pigs:

Individual animal treatment.

Each piglet should be treated on day 3 to 5 of life with a single oral dose of 20 mg toltrazuril per kg body weight corresponding to 0.4 ml oral suspension per kg body weight.

Due to the small volumes required to treat individual piglets, use of dosing equipment with a dose accuracy of 0.1 ml is recommended.

Cattle:

Each animal should be treated with a single oral dose of 15 mg toltrazuril/kg body weight corresponding to 3.0 ml oral suspension per 10 kg body weight.

If animals are to be treated collectively rather than individually, they should be grouped according to their body weight and dosed accordingly, in order to avoid under- or over-dosing.

Sheep:

Each animal should be treated with a single oral dose of 20 mg toltrazuril/kg body weight corresponding to 0.4 ml oral suspension per kg body weight.

If animals are to be treated collectively rather than individually, they should be grouped according to their body weight and dosed accordingly, in order to avoid under- or over-dosing.

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

No signs of intolerance were reported in healthy piglets and calves after oral administration of threefold overdose. In lambs, no signs of overdose have been observed with threefold overdose at a single treatment and twofold overdose at treatment on two consecutive days.

4.11 Withdrawal period(s)

Pigs:

Meat and offal: 77 days.

Cattle:

Meat and offal: 63 days.

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

Sheep:

Meat and offal: 42 days.

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

5. PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Antiprotozoals; triazines; toltrazuril.
ATCvet code: QP51AJ01

5.1 Pharmacodynamic properties

Toltrazuril is a triazinon derivative. It acts against coccidia of the genera *Eimeria* and *Cystoisospora*. It is active against all intracellular development stages of coccidia of the merogony (asexual multiplication) and gamogony (sexual phase). All stages are destroyed, and hence the mode of action is coccidiocidal.

5.2 Pharmacokinetic particulars

Pigs:

After oral administration of the product in pigs, toltrazuril is slowly absorbed with a bioavailability of $\geq 70\%$. The maximum concentration (C_{max}) of toltrazuril is 14 $\mu\text{g/mL}$ and is obtained after around 30 h after a single oral dose of 20 mg/kg bw. The main metabolite is characterized as toltrazuril sulfone. The elimination of toltrazuril is slow with a half-life elimination time around 3 days. The major route of excretion is via the faeces.

Cattle:

After oral administration of the product in cattle toltrazuril is slowly absorbed. The maximal plasma concentration ($C_{max} = 41.4 \text{ mg/l}$) was observed between 6.00 and 48 hours (mean 19 hours) following a single oral dose of 15 mg/bw. The elimination of toltrazuril is slow with a terminal half-life time of approximately 2.7 days (64.15 hours). The main metabolite is characterised as toltrazuril sulfone. The major route of excretion is via the faeces.

Sheep:

After oral administration of the product in lambs, toltrazuril is slowly absorbed. The main metabolite is characterised as toltrazuril sulfone. The maximal plasma concentration ($C_{max} = 64.6 \text{ mg/L}$) was observed between 12 and 120 hours (mean 27 hours) following a single oral dose of 20 mg/bw. The elimination of toltrazuril is slow with an elimination half-life time of up to 9 days (mean 5 days). The major route of excretion is via the faeces.

5.3 Environmental properties

The metabolite of toltrazuril, toltrazuril sulfone (ponazuril) is a very persistent (half-life >1 year) and mobile compound and has adverse effects on both the growth and emergence of plants. Given the persistent properties of ponazuril, repeated spreading of manure from treated animals may lead to an accumulation in the soil and consequently a risk to plants. The accumulation of ponazuril in soil together with its mobility also leads to a risk of leaching to groundwater. See sections 4.3 and 4.5.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Sodium benzoate (E211)
Sodium propionate (E281)
Propylene glycol
Docusate sodium
Simeticone emulsion
Aluminium magnesium silicate
Citric acid monohydrate
Xanthan gum
Water, purified

6.2 Major incompatibilities

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

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: 1 year.

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

Bottle (HDPE), closure (HDPE), sealing liner (LDPE): 250 ml of oral suspension, in a box.

Bottle (HDPE), closure (HDPE), sealing liner (LDPE): 1000 ml of oral suspension.

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

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

KRKA, d.d., Novo mesto
Šmarješka cesta 6
8501 Novo mesto
Slovenia

8. MARKETING AUTHORISATION NUMBER

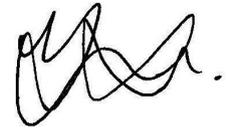
Vm 01656/4068

9. DATE OF FIRST AUTHORISATION

20 November 2014

10. DATE OF REVISION OF THE TEXT

September 2019

A handwritten signature in black ink, consisting of several loops and a final flourish.

Approved :03 September 2019