

# ENDOSPEC

## SC 10% w/v Oral Suspension

Albendazole 100mg/ml Selenium 1.08mg/ml Cobalt 2.5mg/ml

# DATA SHEET



### INDICATIONS

A broad spectrum multi-purpose anthelmintic for the control of mature and developing immature forms of gastrointestinal roundworms, lungworms, tapeworms and adult liver fluke in cattle and sheep.

The product is also ovicidal against fluke and roundworm eggs.

### BENEFITS

- Broad spectrum wormer for cattle and sheep
- Low volume dose designed for accurate dosing of adult stock
- Ovicidal, helping to control pasture infection
- Chronic fluke control-dose
- Added selenium and cobalt
- Short withdrawals for meat and milk

LIST No	UNIT PACKAGE	CASE SIZE
1END005	2.5L	6
1END007	5L	4
1END001	10L	1

See reverse for Administration & Dosage



# Endospec 10% SC



## SC 10% w/v Oral Suspension

Albendazole 100mg/ml Selenium 1.08mg/ml Cobalt 2.5mg/ml

### PRESENTATION

A pale blue suspension for oral use containing (w/v) 10% albendazole, 1.2% Cobalt Sulphate Heptahydrate (equivalent to 0.25% Cobalt) and 0.237% Sodium Selenite (equivalent to 0.108% Selenium).

### TARGET SPECIES

Cattle and sheep.

### INDICATIONS FOR USE

A broad spectrum multi-purpose anthelmintic for the control of mature and developing immature forms of gastrointestinal roundworms, lungworms, tapeworms and adult liver fluke in cattle and sheep. The product is also ovicidal against fluke and roundworm eggs.

In sheep it is active against benzimidazole-susceptible strains of the following species:

**Roundworms:** *Ostertagia*, *Haemonchus*, *Trichostrongylus*, *Nematodirus* (including *N. battus*), *Chabertia* and *Oesophagostomum*. It is usually effective against inhibited larvae of *Ostertagia*.

**Lungworms:** *Dictyocaulus filaria*.

**Tapeworms:** *Moniezia* spp.

**Adult liver fluke:** *Fasciola hepatica*.

In cattle it is active against the following species:

**Roundworms:** *Ostertagia*, *Haemonchus*, *Trichostrongylus*, *Nematodirus*, *Oesophagostomum*, *Bunostomum*, *Cooperia* and *Strongyloides* spp. It is usually effective against inhibited larvae of *Cooperia* and *Ostertagia*.

**Lungworms:** *Dictyocaulus viviparus*.

**Tapeworms:** *Moniezia* spp.

**Adult liver fluke:** *Fasciola hepatica*.

The product is ovicidal and will kill fluke and roundworm eggs, thus reducing pasture contamination.

### CONTRAINDICATIONS

Known hypersensitivity to the active ingredient.

### SPECIAL WARNINGS FOR EACH TARGET SPECIES

Cattle suffering from severe lung damage due to heavy lungworm infestation may continue to cough for some weeks after treatment.

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 body weight, misadministration of the product, or lack of calibration of the dosing device.

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 test(s) strongly suggest resistance to a particular anthelmintic, an anthelmintic belonging to another pharmacological class and having a different mode of action should be used.

Resistance to benzimidazoles (which includes albendazole) has been reported in *Cooperia*, *Haemonchus*, *Trichostrongylus*, and *Teladorsagia* species in small ruminants in a number of countries, including the EU. Resistance to albendazole has been reported in *Cooperia* and *Teladorsagia* species in cattle in developed countries such as New Zealand. Therefore

the use of this product should be based on local (regional, farm) epidemiological information about susceptibility of nematodes and recommendations on how to limit further selection for resistance to anthelmintics.

### SPECIAL PRECAUTIONS FOR USE IN ANIMALS

Not to be diluted or mixed with other products.

Do not administer other cobalt and selenium supplements concurrently unless specifically advised by your veterinary surgeon.

Avoid the introduction of contamination during use.

The product should only be used in areas where deficiencies of cobalt and selenium are likely to occur. If in any doubt seek the advice of a veterinary surgeon.

Care must be taken not to damage the pharyngeal region when dosing, particularly in sheep.

### SPECIAL PRECAUTIONS TO BE TAKEN BY THE PERSON ADMINISTERING THE PRODUCT

Avoid direct contact with the product. Wear suitable protective clothing including impermeable rubber gloves.

In the event of accidental eye exposure, flush eye thoroughly with running water. If irritation persists, seek medical attention. Wash hands after use.

### ADVERSE REACTIONS

None known

### USE DURING PREGNANCY AND LACTATION

The use of the product in breeding bulls or pregnant cattle is not expected to interfere with their reproductive performance.

Do not dose ewes at the 'fluke and worm' dose rate (7.5 mg/kg), during tugging or for 1 month after removing the rams. Can be safely used during lactation.

### INTERACTION WITH OTHER MEDICINAL PRODUCTS

Administration of ionophores to lambs has been shown to enhance selenium bioavailability. Concurrent administration of ionophores and the product may therefore lead to an increased risk of selenium toxicity. In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

### AMOUNTS TO BE ADMINISTERED AND ADMINISTRATION ROUTES

For oral administration only using properly calibrated dosing equipment. To ensure administration of a correct dose, bodyweight should be determined as accurately as possible; accuracy of the dosing device should be checked.

Shake the container before use.

**Cattle: Worm Dose:** (For the control of roundworms, lungworms, tapeworms and fluke and roundworm eggs) 7.5 mg albendazole per kg bodyweight.

**Fluke and worm dose:** (For the additional treatment of adult liver fluke i.e. chronic fascioliasis) 10 mg albendazole per kg bodyweight.

**Sheep: Worm dose:** (For the control of roundworms, lungworms, tapeworms, fluke and roundworm eggs) 5 mg albendazole per kg bodyweight.

**Fluke and worm dose:** (For the additional treatment of adult liver fluke i.e. chronic fascioliasis) 7.5 mg albendazole per kg bodyweight.

### OVERDOSE

Not applicable.

### WITHDRAWAL PERIODS

Animals intended for human consumption must not be slaughtered during treatment.

**Cattle (meat):** 14 days after the last treatment.

**(milk):** 60 hours from the last treatment.

**Sheep (meat):** 4 days after the last treatment.

Not for use in sheep producing milk for human consumption.

### PHARMACOLOGICAL PROPERTIES

Albendazole belongs to the benzimidazole class of anthelmintics. Benzimidazoles bind to nematode tubulin, a protein necessary for the formation and viability of microtubules. This occurs primarily in absorptive intestinal cells resulting in the absence of microtubules in the intestinal cells of the nematode, with the result that these cells cannot absorb nutrients, thus causing a consequent reduction in glycogen and effective starvation of the parasites. Structural differences have been shown to exist between tubulin from mammalian and helminth sources, resulting in the preferential toxicity of albendazole to the helminth and not to the host. Benzimidazoles have also been shown to inhibit the fumarate reductase system of helminths and impair energy production.

The selenium and cobalt are trace elements of use as nutritional supplements and are not intended to be used therapeutically.

### EXCIPIENTS

Methyl Parahydroxybenzoate, Propyl Parahydroxybenzoate, Brilliant Green BS (E142), Cobalt Sulphate Heptahydrate, Sodium selenite, Citric Acid Monohydrate, Sodium Citrate Dihydrate, Xanthan Gum, Povidone, Polysorbate 20, Propylene Glycol, Simethicone Emulsion, Water Purified.

### SHELF LIFE

Shelf life of the veterinary medicinal product as packaged for sale: 18 months.

### STORAGE

Do not store above 25°C.

### DISPOSAL

DANGEROUS to aquatic life. Do not contaminate ponds, waterways or ditches with the product or used containers. Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

### LEGAL CATEGORY

POM-VPS

### MARKETING AUTHORISATION NUMBER

Vm 50146/4025

### MARKETED IN THE UK BY

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TAKE TIME



OBSERVE LABEL DIRECTIONS

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