

ZEROMETM PREMIX FOR PIGS



ACTIVE CONSTITUENT: 6g/kg IVERMECTIN

The perfect solution to pig parasite control!

For the treatment and control of gastrointestinal roundworms, kidney worms, lungworms, lice and mange mites in pigs.

- **Highly effective**
- **Easy to use – just mix in feed!**
- **No needles**
- **Cost effective**
- **Short WHP and ESI**



ZEROME TM PREMIX	
ACTIVE CONSTITUENT	6g/kg Ivermectin
SPECIES	Pigs
DOSE RATES	Please see label for dose rate tables
ROUTE OF ADMINISTRATION	Oral
WITHHOLDING PERIODS	
Meat	7 days
ESI	7 days

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ACTIVE CONSTITUENT: 6 g/kg IVERMECTIN

For the treatment and control of gastrointestinal roundworms, kidney worms, lungworms, lice and mange mites in pigs

INDICATIONS

ZEROMETM Premix for Pigs is indicated for the treatment and control of gastrointestinal roundworms, kidney worms, lungworms, lice and mange mites in pigs.

Ivermectin in the feed at the recommended dose level, 100 µg/kg liveweight daily for 7 days, provides effective control of the following parasites of pigs:

Gastrointestinal Roundworms

Adult and Immature

Adults and fourth-stage larvae of large roundworm (*Ascaris suum*), small brown stomach worm (*Hyostrogylus rubidus*), nodule worm (*Oesophagostomum* spp) and adults of stomach worm (*Ascarops strongylina*) and intestinal threadworm (*Strongyloides ransomi**).

Kidney worms

Adults and fourth-stage larvae of *Stephanurus dentatus*.

Lungworms

Adult *Metastrongylus* spp.

Mites

Haematopinus suis.

Mange mites

Sarcoptes scabiei var. *suis*.

* ZEROMETM Premix for Pigs, given to pregnant sows for 7 consecutive days starting 2 to 3 weeks before farrowing effectively controls transmission via the milk of *Strongyloides ransomi* to piglets.

DIRECTIONS FOR USE

DOSAGE AND ADMINISTRATION

1 Growing Pigs

The recommended dose level, 100 µg/kg liveweight daily for seven days, is obtained for growing pigs eating feed equal to 5% of their liveweight by including ivermectin in complete ration at 2 g per metric tonne (2 ppm) of feed and fed ad libitum. This is achieved by including 333 g ZEROMETM Premix for Pigs in each tonne (1000 kg) of final feed. ZEROMETM Premix for Pigs should be thoroughly mixed in the finished mash feed and fed continuously as the only ration for seven consecutive days.

For pigs up to 100 kg on restricted feeding programs or high-protein diets such that their average daily feed consumption is less than 5% of their liveweight, the inclusion rate of ivermectin should be increased in order to provide the required dose rate. The appropriate inclusion rate can be calculated as follows:

$$\text{Inclusion rate (ppm)} = \frac{X}{10} \quad \text{Where } X = \frac{\text{Average liveweight (kg)}}{\text{Average daily feed intake (kg)}}$$

Pig Weight Range (kg)	Minimum Daily Feed Intake of Finished Feed	ZEROME TM Premix for Pigs per tonne final feed	In-Feed level of ivermectin (ppm)
Up to 40	50 g/kg liveweight (5.0%)	333 g	2.0
(approx)	42 g/kg liveweight (4.2%)	400 g	2.4
40 to 100	40 g/kg liveweight (4.0%)	420 g	2.5
(approx)	30 g/kg liveweight (3.0%)	555 g	3.3

To achieve good dispersion of ZEROMETM Premix for Pigs, it is recommended that the required ZEROMETM Premix for Pigs be diluted with finely ground feed ingredients. For example, to mix at 2 ppm, add 1 kg of ZEROMETM Premix for Pigs to 14 kg of finely ground feed ingredients. This diluted premix would be added to the complete ration at the rate of 5 kg per tonne (1000 kg) of finished feed.

2 Adult Pigs: Basic Limit Feeding (Sows and Boars)

The limit feeding of sows and boars to control rate of growth and total liveweight requires that ivermectin be mixed in the feed at a concentration to permit adequate treatment within the feed allocation of each animal. The recommended dose of 100 µg/kg liveweight daily for 7 days is obtained for adult animals by thoroughly mixing 1.66 kg of ZEROMETM Premix for Pigs into 1 tonne (1000 kg) of finished feed to supply 10 g ivermectin per tonne (10 ppm). This feed should be fed at the rate of 1 kg/100 kg liveweight daily for 7 consecutive days. Animals should not be given any additional feed on a daily basis until the medicated feed is totally consumed.

To achieve good dispersion in medicated feed for adult pigs, it is recommended that each 1 kg of ZEROMETM Premix for Pigs be diluted with 14 kg of finely ground feed ingredients to provide an intermediate premix. Twenty five kg of this intermediate premix should be added to each tonne (1000 kg) of finished feed to provide 10 g ivermectin per tonne (10 ppm).

3 Adults Pigs: Mixing Calculations for Sows on Varying Feed Intakes

As sow feeding practices vary during the different phases of their reproduction cycle (ie, limited feeding during gestation and *ad libitum* during lactation), the inclusion rate of ivermectin per metric tonne of complete feed must be adjusted accordingly to obtain the 100 µg/kg recommended treatment level. As an example, the following inclusion rates for ZEROMETM Premix for Pigs (6 g/kg ivermectin) are based on liveweight and feed intake.

Average Pig Weight (kg)	Daily Feed Intake (kg)	ZEROME TM Premix for Pigs per tonne final feed	In-Feed level of ivermectin (ppm)
200	2.0	1.67 kg	10.00
	2.5	1.33 kg	8.00
	3.0	1.11 kg	6.67
250	2.5	1.67 kg	
	3.0	1.39 kg	

Alternatively, the amount of ZEROMETM Premix for Pigs (6 g/kg ivermectin) required to medicate X number of sows based on average liveweight can also be easily calculated by using the following formula:

$$\text{Amount of ZEROME}^{\text{TM}} \text{ Premix for Pigs} = \frac{\text{Avg liveweight (kg)} \times \text{No. animals} \times 7 \text{ day regime}}{60}$$

$$\text{For example: } \frac{200 \text{ kg sows} \times 10 \text{ animals} \times 7 \text{ days}}{60} = 233.3 \text{ g of ZEROME}^{\text{TM}} \text{ Premix for Pigs}$$

Thus, 233.3 grams of ZEROMETM Premix for Pigs are required to medicate ten 200 kg sows for seven days.

Notes:

- ZEROMETM Premix for Pigs may be incorporated in a feed concentrate prior to its addition to finished feeds.
- Finished feeds that contain ZEROMETM Premix for Pigs may be pelleted.
- All feed mixing should be conducted in accordance with good manufacturing practices.
- Since the effect of ivermectin on mites is not immediate, care must be taken to prevent transfer of infestation to untreated animals. Generally, treated pigs should not be moved to clean quarters or exposed to infested pigs for at least one week after completion of treatment.
- Louse eggs are unaffected by ivermectin and may require up to three weeks to hatch. Louse infestations developing from hatching eggs may require re-treatment.
- Pigs exposed to contaminated premises, soil or pasture may need re-treatment if re-infection occurs.

RECOMMENDED TREATMENT PROGRAMS

Breeding Animals: At the time of initiating any parasite control program, it is important to treat all animals in the herd. After the initial treatment, use ZEROMETM Premix for Pigs regularly as follows:

Sows: Treat preferably 14-21 days prior to farrowing to minimize infection of piglets.

Treat 14-21 days prior to breeding. Treat 14-21 days prior to farrowing.

Boars: Treat at least 2 times per year. Frequency of and need for treatments are dependent upon parasite exposure.

Feeder Pigs (Finishers): All pigs received for finishing should be treated upon placement in clean quarters.

WITHHOLDING PERIODS

MEAT: 7 days.

TRADE ADVICE

EXPORT SLAUGHTER INTERVAL (ESI): 7 days.

SAFETY DIRECTIONS

Harmful if absorbed by skin contact or swallowed. Will irritate the eyes. Avoid contact with eyes. When preparing product for use wear elbow-length rubber gloves and disposable dust mask if dust is present. Wash hands after use. After each day's use wash gloves.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 1126. For further information, refer to the Safety Data Sheet.

ENVIRONMENTAL PROTECTION

Ivermectin is extremely toxic to aquatic species. Do not contaminate dams, rivers, streams or other waterways with the chemical or used container.

DISPOSAL

Shake and empty contents into medicated feed. Do not dispose of undiluted chemicals on-site.

Shred empty containers and bury in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

STORAGE

Store below 25°C (Air conditioning) in a dry place. Protect from light.

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