

# ZEROMEC™ 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
- Short WHP & ESI




| | ZEROMEC™ PREMIX |
|---|---|
| Active Constituent | 6g/kg IVERMECTIN |
| Species | Pigs |
| Route of Administration | Oral |
| Dose rate | Please see overleaf for dose rate tables |
| WHP: Meat | 7 Days |
| ESI | 7 Days |

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

### INDICATIONS

Ivermectin in the feed at the recommended dose level, 100µg/kg liveweight daily for 7 days, provides effective control of the following parasites of pigs:
**Gastrointestinal roundworms**: Adults and fourth-stage larvae of large roundworm *(Ascaris suum)*, small brown stomach worm *(Hyostrongylus 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.
**Lice:** *Haematopinus suis.*
**Mange mites:** *Sarcoptes scabiei* var. *suis*.
*ZEROMEC™ 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, 100µg/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 2g per metric tonne (2ppm) of feed and fed *ad libitum*.
This is achieved by including 333g ZEROMEC™ Premix for Pigs in each tonne (1000kg) of final feed.
ZEROMEC™ 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 100kg 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:

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

The following guidelines are provided for calculating the correct dosage in growing pigs:

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

To achieve good dispersion of ZEROMEC™ Premix for Pigs, it is recommended that the required ZEROMEC™ Premix for Pigs be diluted with finely ground feed ingredients. For example, to mix at 2ppm, add 1kg of ZEROMEC™ Premix for Pigs to 14kg of finely ground feed ingredients. This diluted premix would be added to the complete ration at the rate of 5kg per tonne (1000kg) 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 100µg/kg liveweight daily for 7 days is obtained for adult animals by thoroughly mixing 1.66kg of ZEROMEC™ Premix for Pigs into 1 tonne (1000kg) of finished feed to supply 10g ivermectin per tonne (10ppm). This feed should be fed at the rate of 1kg/100kg 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 1kg of ZEROMEC™ Premix for Pigs be diluted with 14kg of finely ground feed ingredients to provide an intermediate premix. Twenty five kg of this intermediate premix should be added to each tonne (1000kg) of finished feed to provide 10g ivermectin per tonne (10ppm).

**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 100µg/kg recommended treatment level. As an example, the following inclusion rates for ZEROMEC™ Premix for Pigs (6g/kg ivermectin) are based on liveweight and feed intake.

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

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

$$\text{Amount of ZEROMEC™ Premix for Pigs} = \frac{\text{Average live weight (kg) x No. animals x 7 day regime}}{60}$$

For example:

$$\frac{\text{200kg sows x 10 animals x 7 day regime}}{60} = \text{233.3g ZEROMEC™ Premix for Pigs}$$

Thus, 233.3 grams of ZEROMEC™ Premix for Pigs is required to medicate ten 200kg sows for seven days.

### NOTES

1. ZEROMEC™ Premix for Pigs may be incorporated in a feed concentrate prior to its addition to finished feeds.
2. Finished feeds that contain ZEROMEC™ Premix for Pigs may be pelleted.
3. All feed mixing should be conducted in accordance with good manufacturing practices.
4. 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.
5. 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.
6. 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 ZEROMEC™ Premix for Pigs regularly as follows:
**Sows:** Treat preferably 14-21 days prior to farrowing to minimise infection of piglets.
**Gilts:** 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: REMOVE ALL MEDICATED FEED 7 days before slaughter for human consumption.**

### TRADE ADVICE

**EXPORT SLAUGHTER INTERVAL (ESI): DO NOT SLAUGHTER for export for 7 days after removal of the medicated feed. Before using this product, confirm the current ESI from Abbey Animal Health Pty Ltd on 02 8088 0720 or the APVMA website (www. apvma.gov.au/residues).**

### 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 covering mouth and nose 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 Australia 131 126.

### ADDITIONAL USER SAFETY

Additional information is listed in the safety data sheet (SDS).

### 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 500mm 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.

**APVMA Approval Number: 87145/139833**

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