100 years | EXPERIENCE IN VACCINE R&D

PIG
Product guide

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MSD Animal Health

Introduction

As a global healthcare leader, MSD Animal Health is committed to helping the swine market prosper. We offer one of the industry's most innovative swine portfolios to prevent, treat and control diseases across the swine production system. Our mission – The Science of Healthier Animals – guides all of our work.

Healthier animals mean a sustainable food supply and protection for humans against diseases transmitted from animals. Our products help to fight diseases that can devastate swine herds, threaten human health, and disrupt the supply of food. We continue to introduce new technologies to help our veterinarians and farmers maximise their efficiency while preventing diseases and improving animal wellbeing.

The IDAL system of needle-free vaccination is a proud example of a history of innovation, for which we now celebrate 20 years of success. With the launch of 3 generations of devices and a portfolio of various vaccines covering all the major swine diseases, MSD continues to invest in R&D to expand our portfolio for this innovative solution of vaccine administration.

In addition to our needle free technology, MSD provides value add support across the sow and reproduction portfolios with our SowCare, ResPig and PigCare programmes.

We've come a long way in the last two decades, and are looking forward to sharing more innovations in the years to come.

Contents


Sow care
SowCare
The essential range of vaccines for gilts and sows
www.msd-animal-health.co.za

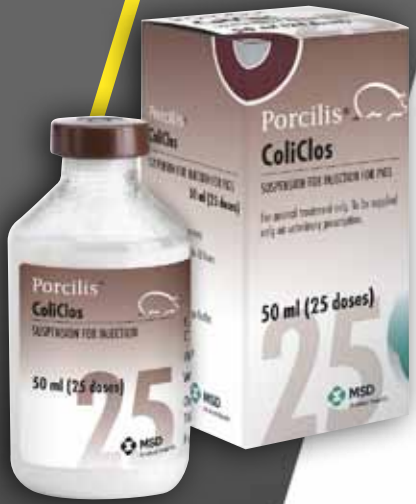
SowCare

Immunisation

Sows and gilts

Reduce mortality during first days of life

E. coli and *C. perfringens*



PORCILIS® COLICLOS

Reg. No. G4374 (Act 36/1947)

INDICATIONS

Porcilis® ColiClos is used for the passive immunisation of progeny by active immunisation of sows and gilts to reduce mortality and clinical signs during the first days of life, caused by those *Escherichia coli* strains, which express the adhesins F4ab (K88ab), F4ac (K88ac), F5 (K99), F6 (987P) and/or produce LT and caused by *Clostridium perfringens* type C.

COMPOSITION

Active ingredient	Quantity per 2 mℓ dose
E. coli components:	
F4ab fimbrial adhesin	≥ 9,7 $\log_2$ Ab titre[1]
F4ac fimbrial adhesin	≥ 7,8 $\log_2$ Ab titre[1]
F5 fimbrial adhesin	≥ 7,4 $\log_2$ Ab titre[1]
F6 fimbrial adhesin	≥ 7,6 $\log_2$ Ab titre[1]
LT toxoid	≥ 12,0 $\log_2$ Ab titre[1]
C. perfringens component:	
Type C (strain 578) β-toxoid	≥ 20 IU[2]

[1] Mean Antibody titre (Ab) obtained after vaccination of mice with a 1/20 or 1/40 sow dose.
[2] International units of beta antitoxin according to Ph. Eur.
Adjuvant per 2 mℓ dose: 150 mg dl-α-tocopheryl acetate.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Allow the vaccine to gradually reach room temperature (20 °C to 25 °C) prior to use.
- Porcilis® ColiClos is administered intramuscularly.
- Once broached, use within 10 hours.

DOSAGE AND ADMINISTRATION

Administer a single dose of 2 mℓ per animal via intramuscular injection, in the neck region behind the ear.

VACCINATION SCHEME

Primary vaccination
Sows/gilts which have not yet been vaccinated with Porcilis® ColiClos are given a primary injection 6 to 8 weeks before the expected date of farrowing and a booster injection 4 weeks later.

Revaccination
A single revaccination is carried out 2 to 4 weeks before the expected date of farrowing.

STORAGE

- Store in the dark between 2 °C and 8 °C.
- Shelf-life after first opening the container: 10 hours.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

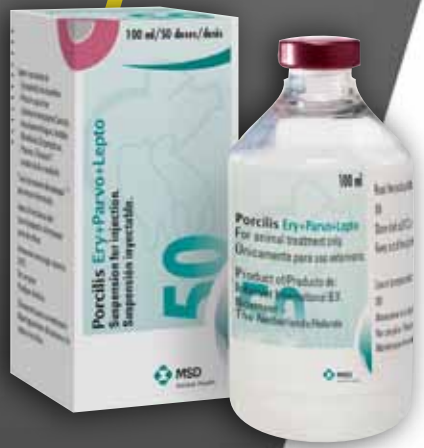
50 mℓ.

SowCare

Immunisation

Sows and gilts

Ery, Parvo and Lepto associated reproductive problems



PORCILIS® EPL

Reg. No. G4372 (Act 36/1947)

INDICATIONS

For the active immunisation of pigs against reproductive problems associated with parvovirus, erysipelas and *Leptospira* serovars:
To reduce clinical signs (skin lesions and fever) of swine erysipelas caused by *Erysipelothrix rhusiopathiae*, serotypes 1 and 2. To reduce transplacental infection, viral load and foetal mortality caused by porcine parvovirus. To reduce clinical signs (increase of body temperature and reduction in feed intake or activity), infection and bacterial excretion caused by *Leptospira interrogans* serogroup Canicola serovar Canicola. To reduce clinical signs (increase of body temperature and reduction in feed intake or activity), severity of infection and foetal mortality caused by *L. interrogans* serogroup Pomona serovar Pomona. To reduce infection caused by *L. interrogans* serogroup Icterohaemorrhagiae serovars Copenhageni and Icterohaemorrhagiae, *L. interrogans* serogroup Australis serovar Bratislava, *L. kirschneri* serogroup Grippotyphosa serovars Grippotyphosa and Bananal/ Liangguang, *L. weilii* serogroup Tarassovi serovar Vughia and *L. borgpetersenii* serogroup Tarassovi serovar Tarassovi.

COMPOSITION

Active ingredient	Quantity per 2 mℓ dose
E. rhusiopathiae, serotype 2 (strain M2)	≥ 1 ppd[1]
Porcine parvovirus (strain 014)	≥ 130 U[2]
L. interrogans serogroup Canicola serovar Portland-Vere (strain Ca-12-000)	≥ 2 816 U[2]
L. interrogans serogroup Icterohaemorrhagiae serovar Copenhageni (strain Ic-02-001)	≥ 210 U[2]
L. interrogans serogroup Australis serovar Bratislava (strain As-05-073)	≥ 1 310 U[2]
L. kirschneri serogroup Grippotyphosa serovar Dadas (strain Gr-01-005)	≥ 648 U[2]
L. interrogans serogroup Pomona serovar Pomona (strain Po-01-000)	≥ 166 U[2]
L. santarosai serogroup Tarassovi serovar Gatuni (strain S1148/02)	≥ 276 U[2]

[1] Pig protective dose as compared to a reference preparation known to be protective in pigs.
[2] As determined in the *in vitro* antigenic mass ELISA potency test.
The vaccine contains 150 mg dl-α-tocopheryl acetate as an adjuvant and formaldehyde as a preservative.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Before use allow the vaccine to reach room temperature.
- Porcilis® EPL is administered intramuscularly.

DOSAGE AND ADMINISTRATION

Administer a single dose of 2 mℓ per pig via intramuscular injection.

VACCINATION SCHEME

Basic vaccination scheme
Pigs which have not yet been vaccinated should be given a primary injection 6 to 8 weeks before the expected date of insemination and a booster injection 4 weeks later.

Revaccination
A single revaccination with Porcilis® EPL should be given once a year. Six months post each vaccination with Porcilis® EPL, a single revaccination with an *Erysipelothrix rhusiopathiae* containing product should be given to maintain immunity against *Erysipelothrix rhusiopathiae*. In case of known infection pressure with *L. interrogans* serogroup Australis, a single revaccination with Porcilis® EPL should be given every 6 months, as it is unknown if or for how long the duration of immunity for this serogroup persists beyond 6 months.

STORAGE

- Store in the dark between 2 °C and 8 °C.
- Shelf-life after first opening the container: 10 hours.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

100 mℓ.

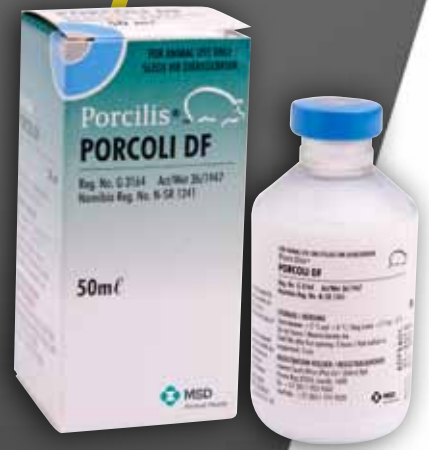
SowCare

Immunisation

Sows and gilts

Reduce mortality during first days of life

E. coli



PORCILIS® PORCOLI DF

Reg. No. G3164 (Act 36/1947)

Namibia Reg. No. V05/24.5/458 NS0

INDICATIONS

Porcilis® Porcoli DF is an inactivated vaccine recommended for the passive immunisation of piglets by active immunisation of sows/gilts to reduce mortality and clinical signs, such as diarrhoea due to neonatal enterotoxicosis during the first days of life, caused by those *Escherichia coli* strains, which express the fimbrial adhesins F4ab (K88ab), F4ac (K88ac), F5 (K99) or F6 (987P).

COMPOSITION

Each dose of 2 mℓ contains the F4ab (K88ab) fimbrial adhesin, the F4ac (K88ac) fimbrial adhesin, the F5 (K99) fimbrial adhesin, the F6 (987P) fimbrial adhesin and LT toxoid, which induce a mean antibody titre of respectively ≥ 9,0 $\log_2$ Ab titre, ≥ 5,4 $\log_2$ Ab titre, ≥ 6,8 $\log_2$ Ab titre, ≥ 7,1 $\log_2$ Ab titre and ≥ 6,8 $\log_2$ Ab titre after vaccination of mice 1/20 dose. The antigens are adjuvanted with 150 mg dl-α-tocopheryl acetate per dose.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Before using the vaccine allow it to reach room temperature 15 °C to 25 °C.

DOSAGE AND ADMINISTRATION

Intramuscular injection of 2mℓ of vaccine per animal in the neck in the area behind the ear.

VACCINATION SCHEME

Basic vaccination scheme

Sows/gilts which have not yet been vaccinated with Porcilis® Porcoli DF should receive a vaccination preferably 6 to 8 weeks before the expected date of farrowing and a booster injection 4 weeks later.

Revaccination

A single revaccination shall be carried out during the second half of next pregnancies, preferably 2 to 4 weeks before the expected date of farrowing.

STORAGE

- Store between 2 °C and 8 °C.
- Shelf-life after first opening: 3 hours.

WITHDRAWAL PERIOD

Zero days.

PRESENTATION

50 mℓ.


Pig Care
PigCare®
Solutions for respiratory and enteric diseases
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PigCare

Immunisation

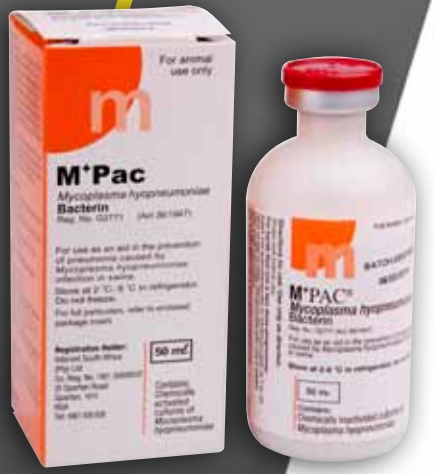
Prevention of pneumonia

Mycoplasma hyopneumoniae

M+PAC®

Reg. No. G2771 (Act 36/1947)

Namibia Reg. No. V07/24.5/743 NS0



INDICATIONS

For use as an aid in the prevention of pneumonia caused by *Mycoplasma hyopneumoniae* infection in swine.

COMPOSITION

Contains chemically inactivated cultures of *Mycoplasma hyopneumoniae.*

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Use an aseptic technique.

DOSAGE AND ADMINISTRATION

Vaccination scheme

For herds that use a 2 dose programme

Vaccinate 1 mℓ subcutaneously or intramuscularly at 7 to 10 days of age or older. Revaccinate with 1 mℓ, two weeks after initial vaccination.

For herds that use a 1 dose programme

Vaccinate pigs at 3 weeks of age or older with a single 2 mℓ dose.

STORAGE

- Store between 2 °C and 8 °C in a refrigerator.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

100 mℓ.

PigCare

Immunisation

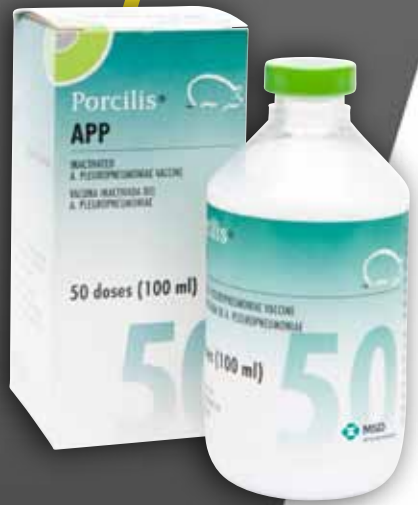
Weaner pigs

Control of pleuropneumonia

PORCILIS® APP

Reg. No. G 2295 (Act 36/1947)

Namibia Reg. No. V97/24.5/832 NS0



INDICATIONS

Porcilis® APP is a vaccine for the active immunisation of weaner pigs as an aid in the control of pleuropneumonia caused by *Actinobacillus pleuropneumoniae.*

COMPOSITION

The vaccine is based on an outer membrane protein (OMP) and three toxoids (detoxified APX I, APX II and APX III) produced by *Actinobacillus pleuropneumoniae* strains.

Each dose of vaccine contains 50 units APX I, 50 units APX II, 50 units APX III and 50 units OMP as the active ingredients. The antigens are suspended in an aqueous adjuvant. The vaccine contains 0,02 % formaldehyde as a preservative.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

Allow the vaccine to reach room temperature 20 °C to 25 °C gradually before use.

DOSAGE AND ADMINISTRATION

The vaccine must be administered by deep intramuscular injection behind the ear at a dose of 2 m*l*.

VACCINATION PROGRAMME

Maximum protection should be achieved before the start of the fattening period. Pigs can be vaccinated from an age of 6 weeks. Two vaccinations at a minimum interval of 4 weeks are required. It is advisable to vaccinate pigs at 6 and 10 weeks of age.

STORAGE

- Store in the dark between 2 °C and 8 °C.
- Protect from direct sunlight.
- Do not freeze.
- Avoid prolonged and repetitive exposure to high ambient temperatures following withdrawal from the refrigerator prior to use.

WITHDRAWAL PERIOD

None.

PRESENTATION

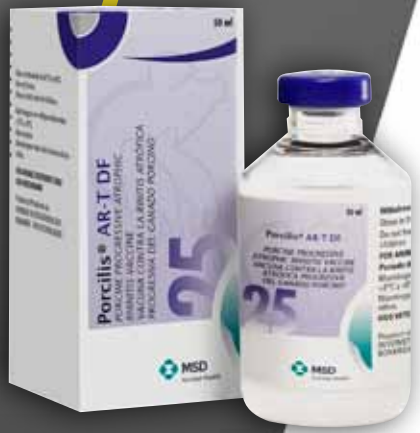
100 m*l*.

PigCare

Immunisation

Sows and gilts

Reduction of clinical signs of Atrophic Rhinitis



PORCILIS® AR-T DF

Reg. No. G2873 (Act 36/1947)

Namibia Reg. No. V05/24.5/457 NS0

INDICATIONS

Porcilis® AR-T DF is an inactivated vaccine for the vaccination of pigs (sows and gilts) for the reduction of clinical signs of progressive Atrophic Rhinitis (AR) in piglets by passive oral immunisation with colostrum from dams actively immunised with the vaccine.

COMPOSITION

Porcilis® AR-T DF is an inactivated vaccine containing a non-toxic recombinant derivative of the *P. multocida* toxin (Protein dO) and inactivated *B. bronchiseptica* cells. Each dose of 2 mℓ Porcilis® AR-T DF contains at least 2 ESRD* of Protein dO (a non-toxic deletion derivative of *Pasteurella multocida* dermonecrotic toxin) and at least 2 ESRD of inactivated *Bordetella bronchiseptica* cells. The antigens are incorporated in a dl-α-tocopherol based adjuvant. Formalin is included as preservative.

* ESRD – effective sero-response dose in final product potency test (0,5 dose induces mean toxin neutralising titre of ≥ 6,2 (log_2) against *P. multocida* toxin and mean agglutination titre of ≥ 5,5 (log_2) against *B. bronchiseptica* in rabbits).

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Allow the vaccine to reach room temperature (20 °C to 25 °C).

DOSAGE AND ADMINISTRATION

Intramuscular injection of 2 mℓ per animal. The vaccine should preferably be administered just behind the ear.

VACCINATION SCHEME

Basic vaccination scheme

Breeding stock, that has not been vaccinated before should be given a primary, followed by a secondary vaccination. The interval between these vaccinations should be 6 weeks. Pregnant sows should be revaccinated 2 to 3 weeks before subsequent farrowing.

Revaccination

A single vaccination of one dose should be carried out prior to each subsequent farrowing. Generally this means every 5 to 6 months. It is preferable to vaccinate sows and gilts during the second half of the pregnancy, but not within two weeks before the expected date of farrowing.

STORAGE

- Store in the dark between 2 °C and 8 °C.

WITHDRAWAL PERIOD

21 days after vaccination.

PRESENTATION

50 mℓ.

PigCare

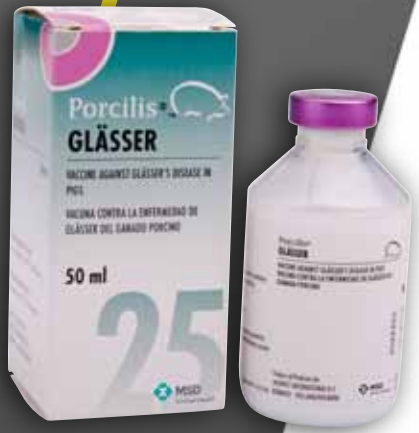
Immunisation

Pigs

Aid in protection of Glässer's disease

PORCILIS® GLÄSSER

Reg. No. G4402 (Act 36/1947)



INDICATIONS

Porcilis® Glässer is indicated for the active immunisation of pigs, as an aid in protection against clinical signs of Glässer's disease caused by *Haemophilus parasuis* serotype 5.
For passive immunisation of the progeny of vaccinated sows and gilts to reduce clinical signs and mortality caused by *Haemophilus parasuis* serotypes 4 and 5.

COMPOSITION

Each 2 mℓ dose contains 200 mg inactivated whole cell concentrate of *Haemophilus parasuis* serotype 5, strain 4800 containing 0,05 mg TN with 150 mg dl-α-tocopherol acetate as adjuvant.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- For the vaccination of pigs of at least 5 weeks of age.
- Allow vaccine to gradually reach room temperature (20 °C to 25 °C) prior to use.

DOSAGE AND ADMINISTRATION

Administer 2 mℓ of the vaccine intramuscularly in the neck of the pig. Ensure that all animals are vaccinated.

VACCINATION SCHEME

Vaccination scheme for pigs
Vaccinate pigs, of at least 5 weeks of age, twice with an interval of 2 weeks.

Vaccination scheme for sows
Vaccinate sows, at 6 to 8 weeks before expected time of farrowing, twice with an interval of 4 weeks.

Revaccination scheme for sows
For sows vaccinated during the previous pregnancy, a single revaccination at 2 to 4 weeks before farrowing is recommended. It is advisable to vaccinate pigs if the infection of *Haemophilus parasuis* takes place in animals older than the age animals are protected by passive immunity. In case of earlier infections, sows should be vaccinated.

STORAGE

- Store between 2 °C and 8 °C.
- Use broached vials immediately.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

50 mℓ.

PigCare

Immunisation

Reduce clinical signs

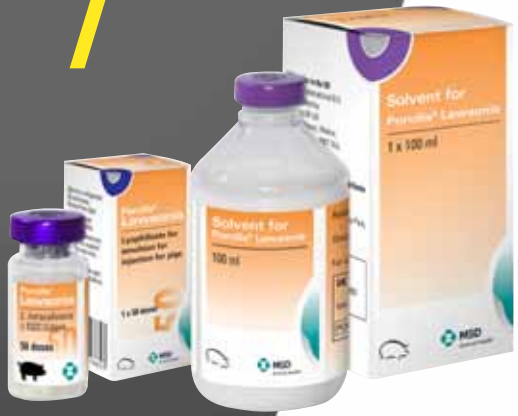
Loss of daily weight gain

Intestinal lesions

Bacterial shedding and mortality

PORCILIS® LAWSONIA

Reg. No. G4472 (Act 36/1947)



INDICATIONS

For the active immunisation of pigs to reduce clinical signs, loss of daily weight gain, intestinal lesions, bacterial shedding and mortality caused by *Lawsonia intracellularis* infection.

COMPOSITION

Each dose of 2 mℓ reconstituted vaccine contains:

Active substances (lyophilisate):
Lawsonia intracellularis strain SPAH-08 inactivated
≥ 5 323 U[1]

[1] Antigenic mass units as determined in the *in vitro* potency test (ELISA).

Adjuvant (solvent (Emunade®)):

Light mineral oil	222,4 mg
Aluminium (as hydroxide)	2,0 mg

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Reconstitute the lyophilisate (50 doses) in the solvent (Emunade®) (100 mℓ).
- For proper reconstitution and correct administration, use the following procedure:
  1. Allow the solvent (Emunade®) or Porcilis® PCV M Hyo to reach room temperature and shake well before use.
  2. Add 5 to 10 mℓ of the solvent (Emunade®) or Porcilis® PCV M Hyo to the lyophilisate and mix briefly.
  3. Withdraw the reconstituted concentrate from the vial and inject it back into the vial with the solvent (Emunade®) or the Porcilis® PCV M Hyo. Shake briefly to mix.
  4. Use the vaccine emulsion within 6 hours of reconstitution. Any vaccine remaining at the end of this time should be discarded.

DOSAGE AND ADMINISTRATION

A single dose of 2 mℓ of reconstituted vaccine in pigs starting at 3 weeks of age. Vaccinate pigs by the intramuscular route in the neck. Before use, allow the solvent (Emunade®) to reach room temperature. Avoid introduction of contamination.

STORAGE

Lyophilisate and Solvent (Emunade®):

- Store in a refrigerator between 2 °C and 8 °C.
- Do not freeze.
- Protect from light.
- Shelf-life after reconstitution according to directions: 6 hours.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

100 mℓ.

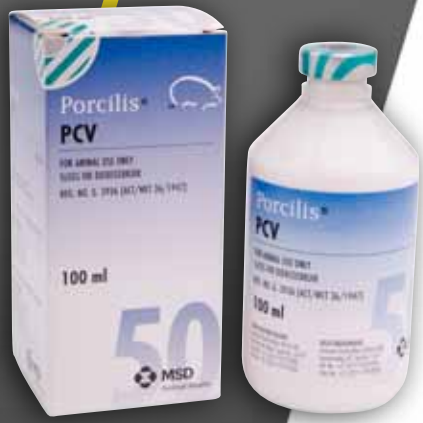
PigCare

Immunisation

Pigs

Reduce viral load

Reduce weight loss associated with PCV-2 infection



PORCILIS® PCV

Reg. No. G3936 (Act 36/1947)

INDICATIONS

Porcilis® PCV is indicated for the active immunisation of pigs, to reduce the virus load in blood and lymphoid tissues and to reduce the weight loss associated with PCV-2 infection occurring during the fattening period.

COMPOSITION

Porcine Circovirus type 2, ORF2 subunit antigen: > 4,5 $\log_2$ ELISA units per 2 m*l*.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Before using the vaccine allow it to reach room temperature (15 °C to 25 °C) and shake well before use.

DOSAGE AND ADMINISTRATION

Vaccination scheme

1. In the case of low levels of maternal antibody against PCV-2, or when PCVD occurring at a later age, a single vaccination is advised:

   Administer 1 dose of 2 m*l*, by intramuscular injection in the neck in the area behind the ear, to pigs from an age of 3 weeks onwards.

2. In the case when it is expected that higher levels of maternal antibody against PCV-2 are present, the following schedule of 2 vaccinations is advised:

   The first injection (2 m*l*) can be given from an age of 3 to 5 days, second injection (2 m*l*) 2 to 3 weeks later.

Consult your veterinarian for vaccination schedules to suit the disease situation and immune status currently present on the farm.

STORAGE

- Store between 2 °C and 8 °C.
- Shelf-life after first opening the container: 8 hours.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

100 m*l*.

PigCare

Immunisation

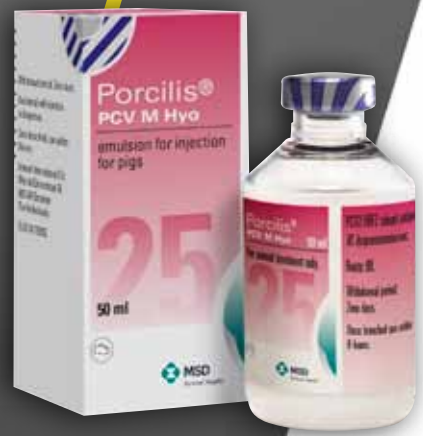
Pigs

Porcine Circovirus type 2 (PCV2)

Mycoplasma hyopneumoniae

PORCILIS® PCV M HYO

Reg. No. G4354 (Act 36/1947)



INDICATIONS

For the active immunisation of pigs to reduce viraemia, virus load in lungs and lymphoid tissues, virus shedding caused by porcine circovirus type 2 (PCV2) infection, and severity of lung lesions caused by *Mycoplasma hyopneumoniae* infection. To reduce the loss of daily weight gain during the finishing period in face of infections with *M. hyopneumoniae* and/or PCV2 (as observed in field studies).

COMPOSITION

Each 2 mℓ dose of inactivated emulsion vaccine contains:

Porcine circovirus type 2 ORF2 subunit antigen	≥ 2,828 AU[1]
M. hyopneumoniae J strain inactivated	≥ 2,69 RPU[2]
Adjuvants:	
Light mineral oil	0,268 mℓ
Aluminium (as hydroxide)	2,0 mg.

[1] Antigenic units as determined in the *in vitro* potency test (ELISA).

[2] Relative potency units defined against a reference vaccine.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Before using the vaccine allow it to reach room temperature (15 °C to 25 °C).
- Vaccinate pigs via intramuscular injection in the neck.

DOSAGE AND ADMINISTRATION

Vaccination scheme

Single dose vaccination schedule

A single dose of 2 mℓ in pigs starting at 3 weeks of age.

Two dose vaccination schedule

Two 1 mℓ doses administered to pigs starting at 3 days of age, with a second dose at least 18 days later.

When PCV2 and/or *M. hyopneumoniae* infections occur early, the two-dose vaccination schedule is recommended.

STORAGE

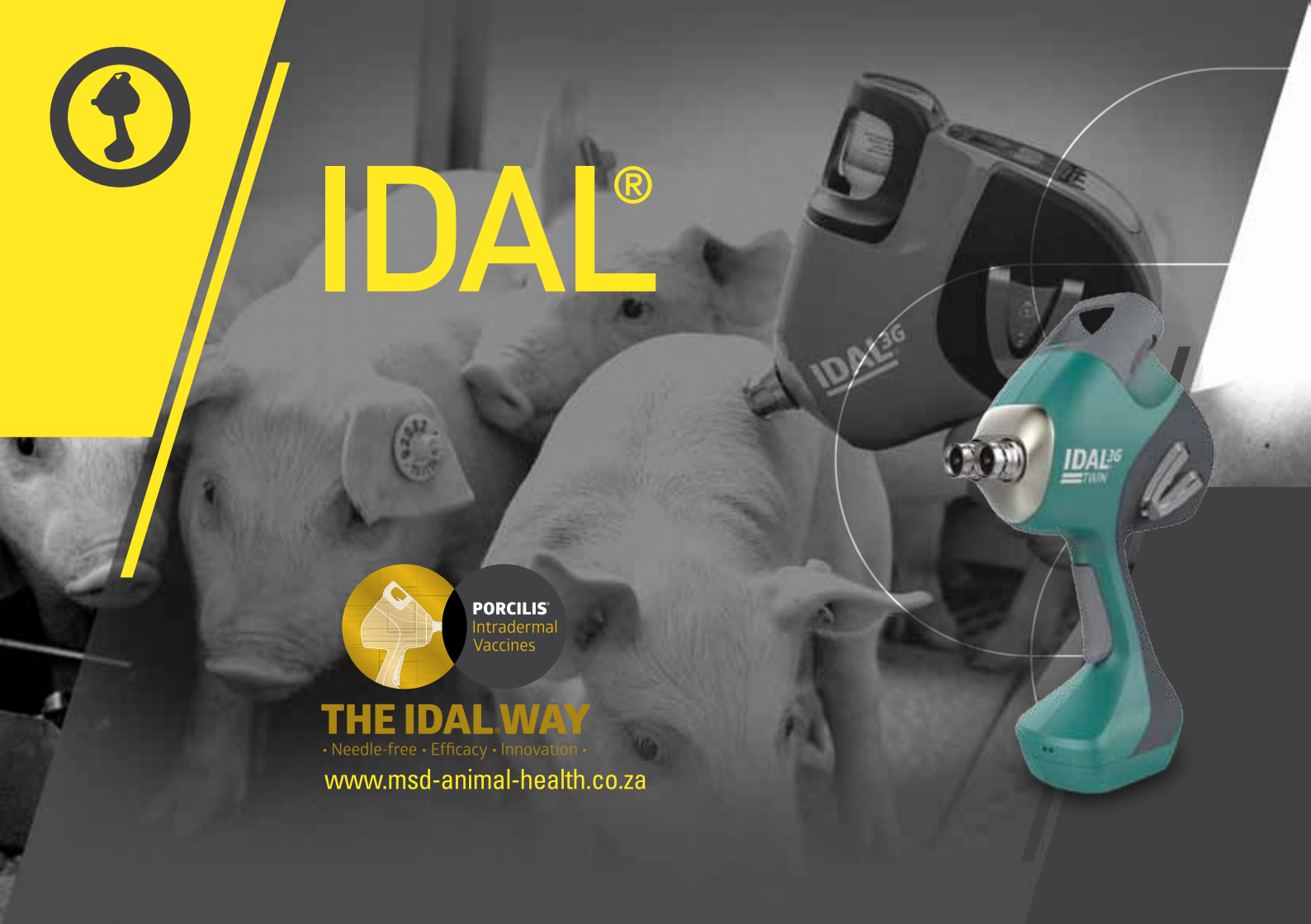
- Store between 2 °C and 8 °C.
- Once broached use within 8 hours.

WITHDRAWAL PERIOD

Meat and offal, 21 days.

PRESENTATION

100 mℓ.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IDAL3G
IDAL3G TWIN
PORCILIS®
Intradermal
Vaccines
THE IDAL® WAY
• Needle-free • Efficacy • Innovation •
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IDAL®

Immunisation

Grower pigs

Reduce pulmonary lesions

Mycoplasma hyopneumoniae

PORCILIS® M HYO ID ONCE

Reg. No. G4299 (Act 36/1947)

INDICATIONS

Porcilis® M Hyo ID Once is indicated for the active immunisation of grower pigs to reduce pulmonary lesions due to infection caused by *Mycoplasma hyopneumoniae*.

COMPOSITION

Each dose of 0,2 mℓ contains inactivated whole cell concentrate of *Mycoplasma hyopneumoniae* strain 11: 1,0 PCVU[1] inducing ≥ 6,5 $\log_2$ Ab titre.*
Light liquid paraffin 34,6 mg
dl-α-tocopherol acetate 2,5 mg.

[1] packed cell volume units.

* mean antibody titre (Ab) in mice.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Route of administration is via intradermal vaccination.
- Safety and efficacy data are available which demonstrate that Porcilis® M Hyo ID Once can be given with Porcilis® PCV ID at different sites on the same day from 3 weeks of age.
- Before using the vaccine allow it to reach room temperature of 15 °C to 25 °C by placing the vial in a suitable container containing 500 mℓ of water at 25 °C for 10 minutes just before use.

DOSAGE AND ADMINISTRATION

Intradermal administration of 0,2 mℓ per animal preferably at the sides of the neck along the muscles of the back using a suitable intradermal device.

VACCINATION SCHEME

Vaccinate once from an age of 2 weeks onwards.
Porcilis® M Hyo ID Once is efficacious in the presence of maternally derived antibodies (MDA).
The container is not opened for use but inserted into the intradermal device. Using the intradermal device, the vaccine is administered using pressure (i.e. without a needle).

STORAGE

- Store between 2 °C to 8 °C.
- Once the vial has been broached, the vaccine must be used within 3 hours.

WITHDRAWAL PERIOD

21 days.

PRESENTATION

20 mℓ.

PORCILIS® Intradermal Vaccines

THE IDAL® WAY

• Needle-free • Efficacy • Innovation •

IDAL®

Immunisation

Pigs

Reduce viraemia, virus load

PCV2 infection

PORCILIS® PCV ID

Reg. No. G4355 (Act 36/1947)

INDICATIONS

For the active immunisation of pigs to reduce viraemia, virus load in lungs and lymphoid tissues and virus shedding, caused by PCV2 infection. In addition, to reduce loss of daily weight gain and mortality associated with PCV2 infection.

COMPOSITION

Each dose of 0,2 mℓ contains:

Porcine circovirus type 2 ORF2 subunit antigen	≥1 436 AU[1]
dl-α-tocopheryl acetate	0,6 mg
Light liquid paraffin	8,3 mg.

[1] Antigenic units as determined in the *in vitro* antigenic mass assay.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Route of administration is via intradermal vaccination.
- Before using the vaccine allow it to reach room temperature of 15 °C to 25 °C.

DOSAGE AND ADMINISTRATION

Vaccination scheme

Vaccinate once from an age of 3 weeks onwards.

Intradermal administration of 0,2 mℓ per animal, preferably at the sides of the neck, along the muscles of the back or in the hind leg using a multi-dose needle-free injection device for intradermal application of liquids, suitable to deliver a "jet-stream" volume of vaccine (0,2 mℓ ± 10 %) through the epidermal layers of the skin.

Safety and efficacy of Porcilis® PCV ID have been demonstrated using the device IDAL® (a revolutionary needle-free vaccination device, that allows intradermal application of swine vaccines).

STORAGE

- Store between 2 °C and 8 °C.
- In-use shelf life after opening the vial: 8 hours when stored between 2 °C and 8 °C.

WITHDRAWAL PERIOD

21 days.

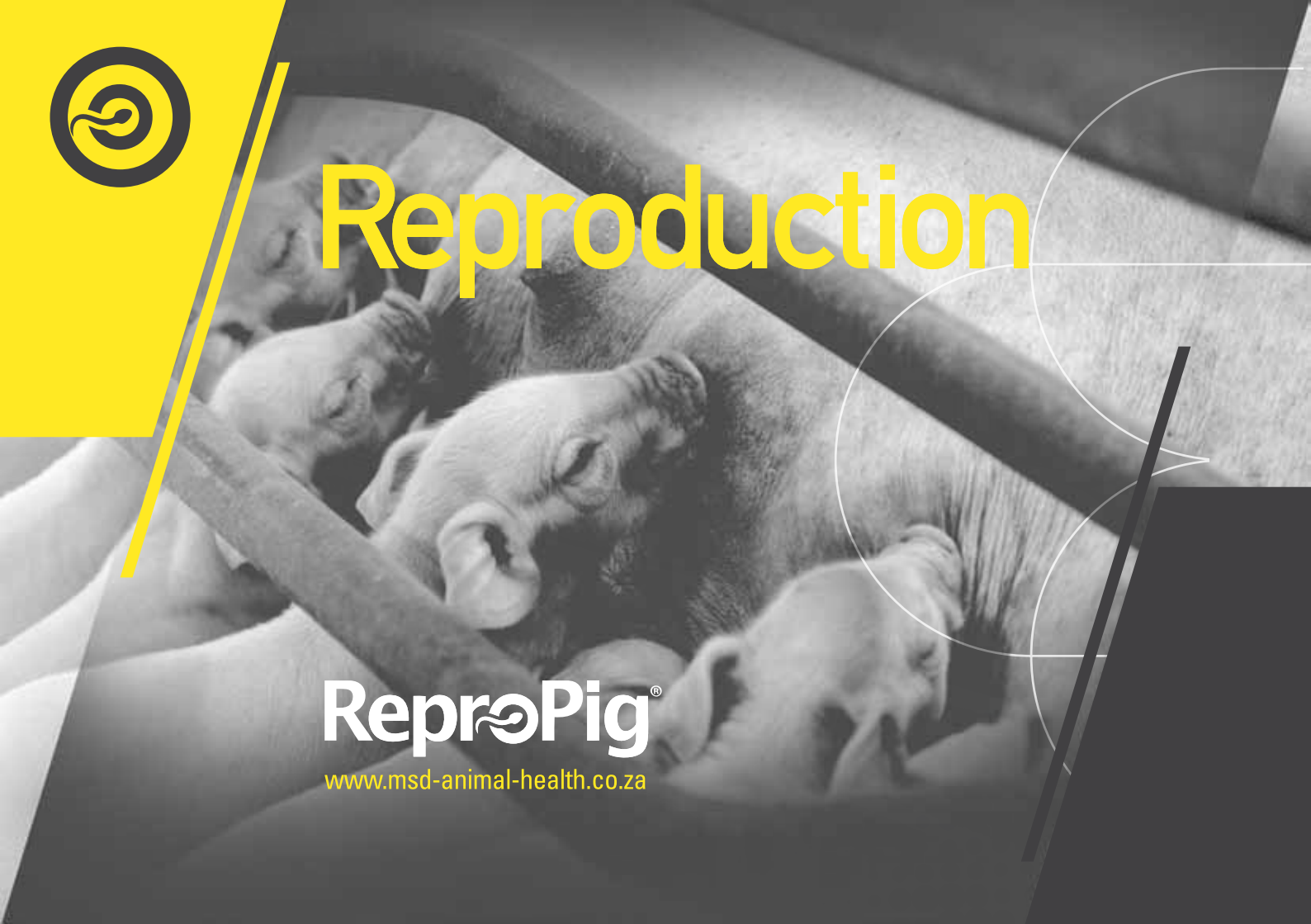
PRESENTATION

20 mℓ.

PORCILIS® Intradermal Vaccines

THE IDAL® WAY

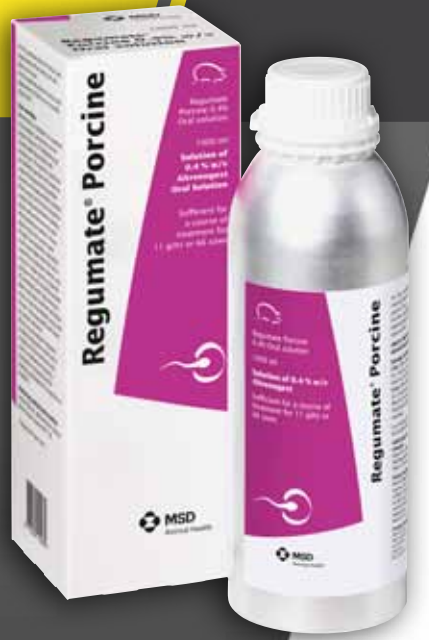
• Needle-free • Efficacy • Innovation •


Reproduction
ReproPig®
www.msd-animal-health.co.za

Reproduction

Synchronisation of oestrus

Gilts



REGUMATE® PORCINE

Reg. No. G1533 (Act 36/1947)

Namibia Reg. No. V04/11.2.3/769 NS0

INDICATIONS

For the synchronisation of oestrus in sexually mature gilts intended for breeding.

COMPOSITION

Contains 0,4 % *m/v* altrenogest in an oily suspension.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- For use on cycling nulliparous gilts for the synchronisation of oestrus.

DOSAGE AND ADMINISTRATION

Gilts

- One dose of 5 mℓ per gilt per day for 18 consecutive days given orally with feed for immediate consumption.

Administration

- Remove the cap and the obturator.
- Measure the clinical dose of 5 mℓ using the dosing cup provided.
- Pour the dose on the feed.
- Close the bottle with the obturator and the screwable cap after each use.

STORAGE

- Store at room temperature (25 °C).
- Protect from direct sunlight.
- Once broached, use within 30 days.

WITHDRAWAL PERIOD

Pigs – 9 days for meat and offal.

PRESENTATION

540 mℓ or 1 ℓ bottle.

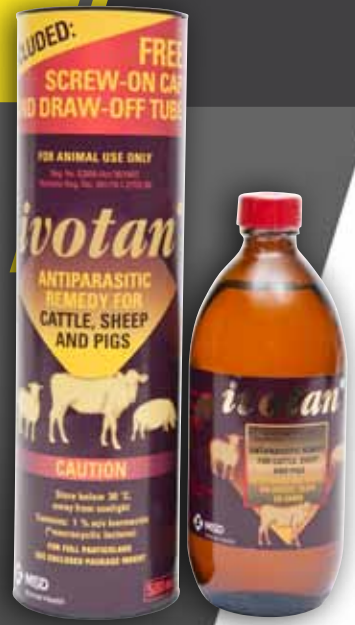

Parasite
treatment
Parasite Treatment
For endoparasiticides & ectoparasiticides
www.msd-animal-health.co.za

Parasite Treatment

Antiparasitic remedy

Roundworms

Mange mites



IVOTAN®

Reg. No. G2858 (Act 36/1947)

Namibia Reg No. V01/18.1.2/731 NS0

INDICATIONS

Antiparasitic remedy for pigs.

COMPOSITION

Contains: Ivermectin 1 % *m/v*.
*macrocyclic lactones

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Shake well before use.

DOSAGE AND ADMINISTRATION

Pigs: The approved dose level is 1 mℓ/33 kg (300 µg/kg) subcutaneously.

Administration

- Ivotan® is to be given subcutaneously only.
- Do not administer intramuscularly or intravenously.
- Ivotan® has demonstrated an adequate safety margin at the recommended dose level and may be used in breeding animals.

INDICATIONS

1. Internal Parasites

For the treatment of roundworms (*Ascaris suum* and *Strongyloides ransomi*) in pigs. Efficacy: Ivotan® is effective against the above-mentioned internal parasites in pigs when given subcutaneously into the neck region at a dose rate of 300 µg/kg (1 mℓ/33 kg) body mass.

2. External Parasites

Kills mange mites (*Sarcoptes scabiei* var. *suis*) in pigs.

Note: Ivotan® has a persistent ivermectin level sufficient to control mite infestations throughout the duration of the life cycle. However, since the effect is not immediate, care must be taken to prevent re-infestation from exposure to untreated animals or contaminated facilities. Generally, pigs should not be moved to clean quarters or exposed to uninfested pigs for approximately one week after treatment. Sows should be treated at least one week before farrowing to minimise transfer of mites to newborn baby pigs.

Pig Roundworm Species	Immature	Adult
Large roundworm (*Ascaris suum*)	*	*
White bankrupt worm (*Strongyloides ransomi*)	*	*

* Controls: ≥ 90 % effective

STORAGE

Store below 30 °C, away from sunlight.

WITHDRAWAL PERIOD

Pigs must not be slaughtered for human consumption within 28 days of last treatment.

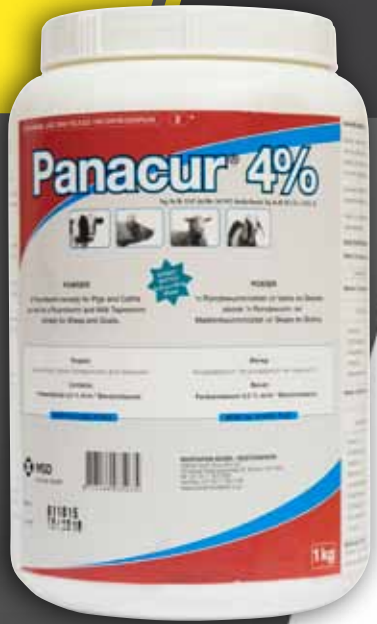
PRESENTATION

500 mℓ amber bottle with a rubber stopper and aluminium seal.

Parasite Treatment

Antiparasitic remedy

Roundworms



PANACUR® 4%

Reg. No. G0169 (Act 36/1947)

Namibia Reg. No. V05/18.1.1/452 NS0

INDICATIONS

Panacur® 4% is a roundworm remedy for pigs.

COMPOSITION

Contains: Fenbendazole 4,0 % *m/m.*

* Benzimidazole

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Panacur® 4% powder is incorporated directly into the feed at the recommended dosage rate as per the dosage instructions.

DOSAGE AND ADMINISTRATION

Pigs - Roundworm

5 mg active ingredient/kg body mass i.e. 1,25 g Panacur® 4% powder/10 kg body mass.

Dosage table

Body mass (kg)	Dose (per gram Panacur® 4% powder) pigs
10	1,25
20	2,50
50	6,25
100	12,50
200	25,00
500	62,50

Panacur® 4% can be safely used in animals before and after mating, pregnant animals, young, old and debilitated animals. Panacur® 4% kills worm eggs present in the animal at dosing.

EFFICACY

Pigs: 5 mg/kg body mass
Effective against *Ascaris suum*

* Controls: ≥ 90 % effective

STORAGE

Store in a cool place.

WITHDRAWAL PERIOD

Do not slaughter animals for human consumption within 7 days of last treatment.

PRESENTATION

1 kg powder packed in a white plastic container with a white cap.

Parasite Treatment

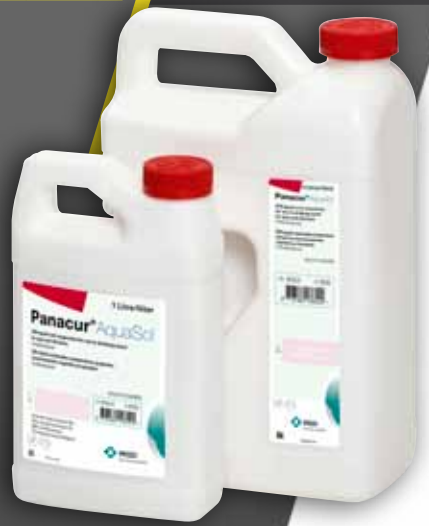
Treatment and control

Gastrointestinal nematodes

PANACUR® AQUASOL

Reg. No. G4316 (Act 36/1947)

Zimbabwe Reg. 2017/80.12.10/9768



INDICATIONS

For the treatment and control of gastrointestinal nematodes in pigs infected with *Ascaris suum* (adult, intestinal and migrating larval stages), *Oesophagostomum* spp. (adult stages), *Hyostrongylus rubidus* (adult and larval stages), and *Trichuris suis* (adult stages). Panacur® AquaSol has an ovicidal effect on nematode eggs.

COMPOSITION

Contains: Fenbendazole 200 mg/mℓ.
Preservative: Benzyl alcohol 20 mg/mℓ.
*Benzimidazole

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- For use in drinking water.
- To ensure administration of a correct dose, body weight should be determined as accurately as possible; accuracy of the dosing device should be checked.

DOSAGE AND ADMINISTRATION

Pigs

The dose is 2,5 mg fenbendazole/kg body weight/day (equivalent to 0,0125 mg Panacur® AquaSol). For the treatment and control of *Ascaris suum, Oesophagostomum* spp. and *Hyostrongylus rubidus* this dose has to be administered on 2 consecutive days. For the treatment and control of *Trichuris suis* the dose has to be administered on 3 consecutive days.

Dose calculation

The required daily amount of product is calculated from the total estimated body weight (kg) of the entire group of pigs to be treated. Please use the following formula:
Amount of product/day = Total estimated body weight (kg) of pigs to be treated x 0,0125 mℓ.

Example:

Total body weight of pigs to be treated	Day 1 - amount of product	Day 2 - amount of product	Day 3 - amount of product	Total amount (for 2 days)	Total amount (for 3 days)
80 000 kg	1 000 mℓ	1 000 mℓ	1 000 mℓ	2 x 1 000 mℓ	3 x 1 000 mℓ
320 000 kg	4 000 mℓ	4 000 mℓ	4 000 mℓ	2 x 4 000 mℓ	3 x 4 000 mℓ

STORAGE

- Store at or below 30 °C.
- Shelf-life after first opening the immediate packaging: 6 months.
- Shelf-life of the medicated water: 24 hours.

WITHDRAWAL PERIOD

Pigs - 4 days for meat and offal.

PRESENTATION

White to off-white oral suspension filled into a natural 1 ℓ or 4 ℓ high-density polyethylene (HDPE) container with a thermo seal and closed with red propylene child-resistant, screw caps. The 4 ℓ container is provided with a separate polyethylene dispenser (aeroflow tap).

Antibiotics

Antibiotics

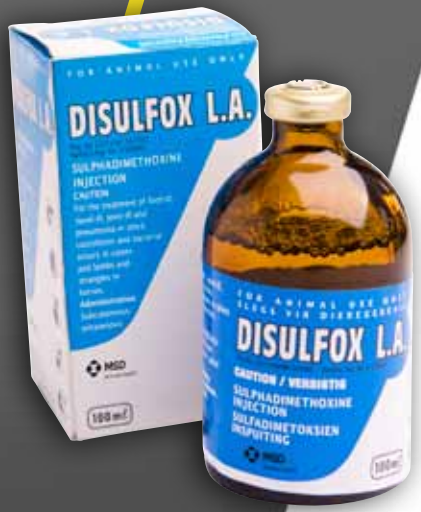
www.msd-animal-health.co.za

Antibiotics

Treatment

Joint ill

Pneumonia



DISULFOX L.A.

Reg. No. G3212 (Act 36/1947)

Namibia Reg. No. V00/17.1.7/649 NS0

INDICATIONS

Disulfox L.A. is for the treatment of joint ill and pneumonia in pigs.

COMPOSITION

Contains: Sodium sulphadimethoxine 40 % *m/v*.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

DOSAGE AND ADMINISTRATION

Administer by subcutaneous or intravenous routes. Massage the injection site to maximise absorption and to minimise swelling. When using the intravenous route, give the injection very slowly. Discontinue for a while at the first sight of discomfort. Continue only when all seems normal.

An initial dosage double the maintenance dosage is recommended. Do not treat for more than 4 days.

Species	Initial Dose	Maintenance Dose
Pigs	1 to 2 m*ℓ*/10 kg body mass	0,5 to1 m*ℓ*/10 kg body mass

N.B. Consult your veterinarian immediately if any uncertainty arises as to the diagnosis or dosage or if little or no improvement is affected by the treatment.

INDICATIONS PER TARGET SPECIES

Pigs: Pneumonia & joint ill.

STORAGE

Store in a cool dark place.

WITHDRAWAL PERIOD

Do not slaughter animals for human consumption within 7 days of the last treatment.

N.B. Treated animals must have free access to ample drinking water during treatment and for at least two days after the last treatment.

PRESENTATION

100 m*ℓ* and 500 m*ℓ*.

Antibiotics

Treatment

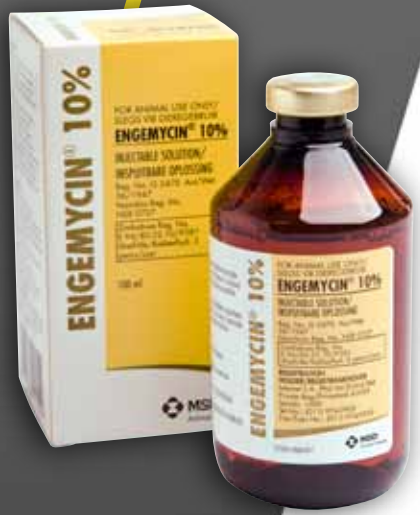
Bacterial pneumonia

Mastitis

Bacterial enteritis

Navel/joint ill

Bacterial wound infections



ENGEMYCIN® 10% Injectable Solution

Reg. No. G2470 (Act 36/1947)

Namibia Reg. No. V98/17.1.2/668 NS0

INDICATIONS

For the treatment of bacterial pneumonia, mastitis, bacterial enteritis, navel/joint ill and bacterial wound infections in pigs.

COMPOSITION

Each 1 mℓ of Engemycin® 10% contains 100 mg oxytetracycline in a complex with magnesium oxide and polyvinylpyrolidone in water for injection. It contains sodium formaldehyde-desulfoxylate as a preservative.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- For the control of bacterial infections, 3 to 5 doses are required.
- Repeat intramuscular (i.m.) or subcutaneous (s.c.) injections should be given at different sites.
- Not more than 20 mℓ should be given at any 1 site.
- Intravenous injections should be given slowly over a period of at least 1 minute.
- Observe aseptic conditions when administering the injection.

DOSAGE AND ADMINISTRATION

- 1 mℓ/10 kg body mass (10 mg/kg) s.c. or i.m.
- In very young pigs below 10 kg body mass, the subcutaneous route is preferred.
- Pigs in excess of 10 kg body mass, administer by intramuscular injection at 1 site in the neck.
- In pigs weighing over 100 kg the dose should be divided and administered at 2 injection sites.
- Do not administer more than 0,5 mℓ oxytetracycline in piglets of less than 2 kg body mass.

STORAGE

- Store in the dark, below 25 °C.

WITHDRAWAL PERIOD

Meat and other organs - 14 days after the last dosage.

PRESENTATION

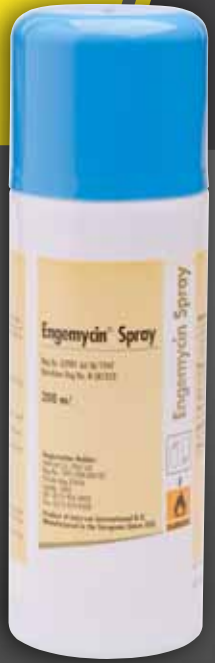
100 mℓ and 500 mℓ.

Antibiotics

Treatment

Topical infections

Organisms susceptible to oxytetracycline



ENGEMYCIN® SPRAY

Reg. No. G2981 (Act 36/1947)

Namibia Reg. No. V02/17.1.2/661 NS0

INDICATIONS

Treatment of topical infections such as lacerations, abrasions, gaping wounds, dermatitis and foot rot caused by or associated with organisms susceptible to oxytetracycline.

COMPOSITION

Each 200 mℓ contains: Oxytetracycline hydrochloride, 5 g (equivalent to 4,63 g oxytetracycline).

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

- Shake before use.
- Before treatment, thoroughly clean the foot, completely removing necrotic and foreign material, exudates, etc.
- After treatment, keep the animal on dry surface for 24 hours.

DOSAGE AND ADMINISTRATION

Spray Engemycin® Spray onto the affected area for 1 to 2 seconds, at a distance of 15 to 20 cm, until an even distribution of the dye is obtained. Repeat the treatment every 12 hours, until complete recovery.

STORAGE

- Store at room temperature at or below 25 °C.

WITHDRAWAL PERIOD

None.

PRESENTATION

200 mℓ Aerosol suspension spray can.

Antibiotics

Treatment

Pneumonia

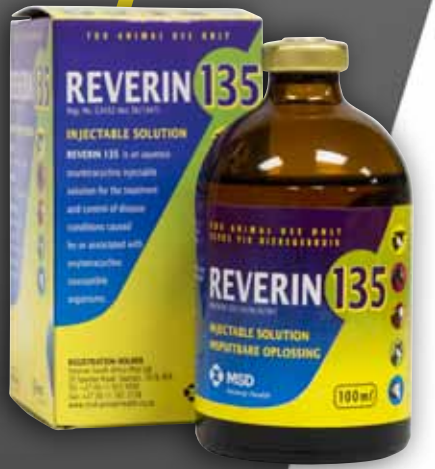
Navel/Joint ill

Foot rot

REVERIN 135

Reg. No. G3432 (Act 36/1947)

Namibia Reg. No. V04/17.1.2/552 NS0



INDICATIONS

For the treatment of pneumonia, navel ill, joint ill and foot rot.

COMPOSITION

A sterile, stable solution of oxytetracycline. It contains the equivalent of oxytetracycline hydrochloride 135 mg/mℓ (as the magnesium complex).

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

DOSAGE AND ADMINISTRATION

Administration

- Intramuscular, subcutaneous or intravenous injection.
- When injecting intramuscularly, inject into the muscle of the mid-neck area using a needle of not more than 30 mm in length.
- Do not inject more than 20 mℓ at one site.
- Massage the area after injection to enhance absorption and minimise swelling.
- When using the intravenous route, inject slowly and pause if any discomfort is shown.

DOSAGE: Normal Use

Pigs	Foot rot and pneumonia	2 mℓ/30 kg body mass daily for 3 days.

STORAGE

- Store in a cool, dark place at or below 25 °C.

WITHDRAWAL PERIOD

Treated animals must not be slaughtered for human consumption within 28 days of last treatment.

PRESENTATION

100 mℓ and 500 mℓ.

Antibiotics

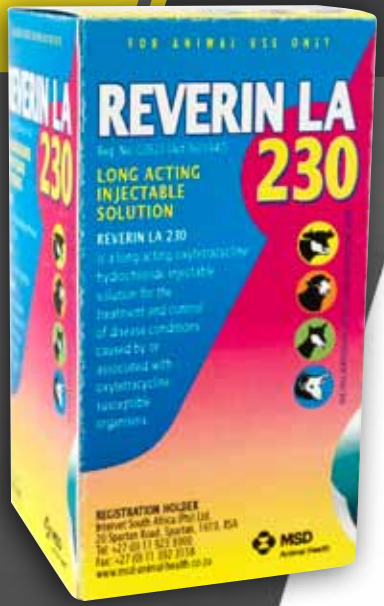
Treatment

Organisms susceptible to oxytetracycline

Pneumonia

Navel/Joint ill

Foot rot



REVERIN LA 230

Reg. No. G3521 (Act 36/1947)

INDICATIONS

Reverin LA 230 is indicated for the treatment and control of conditions caused by or associated with oxytetracycline susceptible organisms. Its long action is recommended for veterinary, practical or economic reasons if it is not possible or desirable to handle and treat the animal more frequently. In pigs it is recommended for the treatment of pneumonia, foot rot, joint ill and navel ill.

COMPOSITION

Each 1 mℓ contains 230 mg oxytetracycline hydrochloride (23 % *m/v*).

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

DOSAGE AND ADMINISTRATION

Dosage

- Reverin LA 230 is designed for single intramuscular injection at 1 mℓ/10 kg body mass which gives a dosage of 23 mg oxytetracycline hydrochloride per kg live mass.
- If the product is used intravenously, no long acting effect will be achieved.
- Normally 1 injection is sufficient to treat diseases mentioned above.
- A second injection at 72 hours (3 days) after the initial injection may be given if necessary. Treatment should always be continued until total recovery.
- For adult animals it is recommended that the dose be split and given at 2 injection sites.
- Pigs - not more than 10 mℓ per site.
- For pigs under 10 kg it is preferable to inject subcutaneously. This route is not preferred for other animals as it may cause some swelling.

Administration

Injection in the neck is preferable to the rump, as this tends to give higher antibiotic blood levels and causes less tissue damage. Inject deep into the fleshy part of the muscle.

Temporary discomfort may be caused by intramuscular injections; massaging the site of injection will reduce discomfort and will help to disperse the antibiotic at the site of injection.

STORAGE

- Store in a cool dark place at or below 30 °C.

WITHDRAWAL PERIOD

Do not slaughter animals for human consumption within 28 days of last treatment. **DO NOT ADMINISTER REVERIN LA 230 TO PIGLETS ON THE SAME DAY THAT THEY ARE INJECTED WITH IRON.**

PRESENTATION

100 mℓ, 500 mℓ and 1 ℓ.