YOU CAN ALWAYS HAVE CONFIDENCE IN QUALITY

The Intervet/Schering-Plough Animal Health range of Injectable Antibiotics.
With a heritage that includes Glaxo, Pitman Moore and Intervet, we know what it takes to build a great business. It’s our mission to provide you with the best products, resources and support to help you and your clients run profitable businesses.

We provide more market-leading remedies than any other animal health company, backed by hard data that proves they work where it really counts – on New Zealand farms. We’ve been the first to develop remedies for over fifty conditions that threaten the health and productivity of our stock and the economic well-being of our rural communities.

We provide you with a dedicated team of people, with local knowledge and experience, as well as tools and resources to support your relationship with your clients.

In addition, we invest in many important industry initiatives to build knowledge and information that will help ensure success for the whole of New Zealand farming.
The Intervet/Schering-Plough Animal Health range of Injectable Antibiotics:

QUALITY – Manufacture, Quality Control.

CONSISTENCY – Reliability, Repeatability.

PERFORMANCE – Bioavailability, Clinical Efficacy.

Your choice of administration site, route and dosage can alter the pharmacokinetics, safety and efficacy of a drug. The formulation you choose can also influence that profile. Superior syringeability, high bioavailability and low tissue irritancy within our range of injectable antibiotics ensures you can have confidence that every dose is consistent, efficacy is maximised, and risk is minimised.

ENJOY HAVING FULL CONFIDENCE IN THE ANTIBIOTICS YOU PRESCRIBE TO YOUR CLIENTS.
Engemycin

Engemycin’s unique patented PVP carrier enables high bioavailability with low carcass irritancy. The PVP (polyvinylpyrrolidone) matrix carrier system is a significant point of difference between Engemycin and all other oxytetracycline formulations. PVP forms a stable complex with oxytetracycline molecules. This not only works to protect the immediate area around the injection site from irritation, but also quickly transports the oxytetracycline into the blood stream before releasing the active ingredient. Because the entire complex is transported away, no irritant precipitate is left at the injection site. Unsightly swellings or tissue necrosis are rarely, if ever, seen.

Engemycin ensures oxytetracycline is quickly delivered to the peripheral tissues, and away from the injection site giving rapid onset of activity and optimum results.

Benefits of Engemycin
- Little or no site reaction
- • Less carcass damage, reducing carcass downgrading
- • Reduces pain and stress for the animal, with no unsightly swelling at injection site.

Optimal clinical response
- • Greater bioavailability, resulting in rapid attainment of therapeutic concentrations
- • Rapid and reliable resolution of infection and clinical signs.

Short withholding periods
- • High bioavailability allows more rapid elimination, and minimal time below MIC
- • Shortest withholding period of all ‘longer acting’ oxytetracyclines.

Flexible dosage options
- • Dosage schedule according to age, species and duration required (short or prolonged effect)
- • Therapeutic levels can be immediately achieved with i/v administration.

Dosage – Cattle
Short Action (SA) = 3–10mg per kg, dependant on age and species
Prolonged Action (PA) = 10–20mg per kg, dependant on age and species

<table>
<thead>
<tr>
<th>Weight</th>
<th>300kg</th>
<th>500kg</th>
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<tbody>
<tr>
<td>SA s/c or i/m 24 hourly</td>
<td>8mL</td>
<td>12mL</td>
<td>15mL</td>
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<tr>
<td>PA i/m only 48 hourly</td>
<td>20mL</td>
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Withholding Periods – Cattle

<table>
<thead>
<tr>
<th>Milk</th>
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<tr>
<td>milk</td>
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<tr>
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Not for use in bobby calves.

250mL and 100mL PET bottle. Store at room temperature.

Engemycin

Ready to use aqueous suspension containing 100mg oxytetracycline per mL, to provide broad-spectrum activity with a dual dosage regime.

Engemycin’s unique formulation minimises dose rate and site reactions, and has excellent bioavailability.

Indications
For the treatment of infections caused by bacteria sensitive to oxytetracycline, particularly:
- Septicaemia
- Pneumonia
- Metritis
- Mastitis
- Urogenital tract infections

Engemycin is used extensively as a broad-spectrum antibiotic for dairy and beef cattle, horses, pigs and sheep.

Often referred to as ‘the vets choice’, Engemycin is used extensively as a broad-spectrum antibiotic for dairy and beef cattle, horses, pigs and sheep.

Proven activity against a wide range of pathogens
Particularly useful in mixed infections and those of unknown aetiology
Good safety and tolerance profiles across all species treated
Reliable distribution throughout the body.

Trail data
A comparative clinical trial in calves with pneumonia showed Engemycin was more rapidly absorbed with a higher peak concentration.

Graph 1 – Serum concentrations after i/m administration of Engemycin and a competitor oxytetracycline preparation.

The overall cure rate was >95%, and there was a significant difference in favour of Engemycin in the rapidity of return to normal body temperature at 24 hours.

Graph 2 – Elevation of body temperature

Engemycin ensures oxytetracycline is quickly delivered to the peripheral tissues, and away from the injection site giving rapid onset of activity and optimum results.

The PVP (polyvinylpyrrolidone) matrix carrier system is a significant point of difference between Engemycin and all other oxytetracycline formulations.

PVP forms a stable complex with oxytetracycline molecules. This not only works to protect the immediate area around the injection site from irritation, but also quickly transports the oxytetracycline into the blood stream before releasing the active ingredient.

Because the entire complex is transported away, no irritant precipitate is left at the injection site. Unsightly swellings or tissue necrosis are rarely, if ever, seen.

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Not for use in bobby calves.

250mL and 100mL PET bottle. Store at room temperature.
Depocillin

Ready to use procaine penicillin that offers consistently excellent quality. Contains 300mg procaine penicillin (300,000 IU) per mL.

Depocillin is the first choice of penicillin for many vets because of its superior syringeability and consistent quality.

Depocillin is the penicillin of choice for equine practice because of low levels of free procaine giving less potential for adverse reactions.

**Indications**

For the treatment of infections caused by bacteria sensitive to penicillin.

**Homogeneous small particle size**

![Graph 1](image)

- Particle size (by volume) distributions of procaine penicillin

One shot treatment for pneumonia, rapid action and rapid recovery with active ingredient 300mg/mL florfenicol.

Drug of choice for respiratory disease in young cattle and pigs.

Florfenicol is a synthetic, broad-spectrum antibiotic which is unique to animal health. It is highly lipid soluble, giving rapid and broad distribution throughout all tissues, especially the lungs.

**Indications**

- Bovine respiratory disease involving *Mannheimia* (Pasteurella) haemolytica, *Pasteurella multocida* and *Haemophilus somnus*.
- Treatment and control of swine respiratory disease involving *Actinobacillus pleuropneumoniae* and *Pasteurella multocida*.
- Footrot and Pinkeye in cattle.

**Benefits of Depocillin**

- Consistent performance
- High bioavailability
- Rapid attainment of peak plasma concentrations
- Excellent syringeability (can pass through a 23-gauge needle)
- Excellent reusability (within 10 seconds)
- Less potential for adverse reactions
- Convenience.

**Dosage**

1mL, per 15kg by s/c or i/m injection

**Weight**

- 2mL
- 3mL
- 4mL
- 8mL
- 12mL
- 16mL
- 20mL

**Withholding Periods – Cattle**

- 1 injection
  - Milk: 48 hours
  - Meat: 4 days
- 2 injections
  - Milk: 72 hours

**Nuflor**

One shot treatment for pneumonia, rapid action and rapid recovery with active ingredient 300mg/mL florfenicol.

Drug of choice for respiratory disease in young cattle and pigs.

Florfenicol is a synthetic, broad-spectrum antibiotic which is unique to animal health. It is highly lipid soluble, giving rapid and broad distribution throughout all tissues, especially the lungs.

**Indications**

- Bovine respiratory disease involving *Mannheimia* (Pasteurella) haemolytica, *Pasteurella multocida* and *Haemophilus somnus*.
- Treatment and control of swine respiratory disease involving *Actinobacillus pleuropneumoniae* and *Pasteurella multocida*.
- Footrot and Pinkeye in cattle.

**Benefits of Nuflor**

- Efficient – one s/c dose is sufficient for effective prolonged treatment
- Long-lasting, one treatment provides four days of therapy
- Highly effective treatment for respiratory problems in young animals
- Fast acting – quickly reduces fever, encourages recovery and subsequent weight gain.

**Dosage**

1Dose Regime – 2mL per 15kg by s/c injection

**Weight**

- 50kg
- 100kg
- 200kg
- 300kg
- 400kg
- 500kg

**Withholding Periods – Cattle**

- 1Dose s/c
  - Milk: 35 days
  - Meat: 28 days
- 2Doses s/c
  - Milk: 35 days
  - Meat: 28 days
- 3+ injections
  - Milk: 35 days
  - Meat: 28 days

**Withholding Periods – Cattle**

Not for use in bobby calves. Not for use in pregnant animals.

100mL bottle. Store between 2–8ºC. Do not freeze.
**Cobactan 2.5% Injection**

A 4th generation cephalosporin that combines excellent activity with short withholding periods for meat and milk. Contained 25mg/mL ceftazime.

Cobactan is the antibiotic of choice for coliform mastitis, and is the only antibiotic proven to show improvement in clinical and production outcomes.

Cobactan has the broadest spectrum of any veterinary cephalosporin, excellent efficacy against Pasteurella pneumonia, and penetrates the mammary gland for high potency against S. uberis, S. aureus, and E. coli mastitis.

**Indications**

For the treatment of infections caused by Gram-positive and Gram-negative micro-organisms sensitive to ceftazime in cattle and pigs.

- **Cattle**
  - Respiratory diseases caused by Pasteurella multocida and haemolytica
  - Acute E. coli mastitis
  - Digital dermatitis, infectious bulbar necrosis and acute interdigital necrobacillosis.

**Benefits of Cobactan**

- Broad-spectrum activity against
  - Gram-positive Staphs and Streps
  - Gram-negative Pasteurella, Klebsiella, E. coli, many Pseudomonas isolates
  - Highly resistant to beta lactamase inactivation.

**Dosage**

1mL per 25kg by im injection

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<tr>
<th>Weight</th>
<th>2mL</th>
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**Withholding Periods – Cattle**

- Milk: 12 hours
- Meat: 5 days

Not for use in bobby calves. 100mg/mL and 50mg/mL bottles do not store above 25°C. Keep out of light.

**Tribrissen 48%**

The synergistic action of 80mg trimethoprim and 400mg sulphadiazine per mL produces a sequential double blockade of bacterial synthesis of folinic acid.

Tried and trusted therapy, especially for enteric infection.

**Indications**

The treatment of a wide range of bacterial diseases in cattle, goats, pigs, sheep and horses caused by organisms sensitive to potentiated sulphonamides.

- Alimentary tract infections (neonatal diarrhoea and salmonellosis)
- Diseases of the respiratory tract (pneumonia, rhinitis, bronchitis or infections secondary to viral pneumonias)
- Urogenital infections (cystitis, nephritis, vaginitis and metritis including endometritis in mares).

**Benefits of Tribrissen**

- Minimal effect on commensal intestinal flora due to the presence of folinic acid in the gut lumen
- Broad antibacterial spectrum
- Formulated for a low dose volume.

**Dosage**

1.0mL–1.5mL per 30kg by slow iv or im injection (horses slow iv only)

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<thead>
<tr>
<th>Weight</th>
<th>2.5mL</th>
<th>3.5mL</th>
<th>5.0mL</th>
<th>7.5mL</th>
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<th>15.0mL</th>
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**Withholding Periods – Cattle**

Milk: 48 hours

Meat: 28 Days

Not for use in bobby calves. 50mL bottle: Store between 2–25°C. Protect from light.

**Cobactan® LC**

4th generation cephalosporin intramammary, recommended to be used concurrently with Cobactan 2.5% for difficult or severe intramammary infections.
Depomycin

Ready to use aqueous suspension containing 200mg (200,000 IU) procaine penicillin and 200mg dihydrostreptomycin per mL.

The potent Gram-positive activity of penicillin combined with dihydrostreptomycin offers activity against Gram-negative pathogens and penicillinase-producing organisms. Synergy between these two actives has been demonstrated in vitro and in human medicine with some isolates.

Indications

For the treatment of infections caused by bacteria sensitive to penicillin and streptomycin.

Benefits of Depomycin

- General use antibiotic with dihydrostreptomycin to extend the spectrum to include some Gram-negative activity.
- Potential synergy between penicillin and dihydrostreptomycin.

Dosage

1mL per 25kg by sc or iv injection.

Weight | 50kg | 100kg | 200kg | 300kg | 400kg | 500kg
-------|------|------|------|------|------|------
Proccaine Penicillin | 20L/mL | 40L/mL | 80L/mL | 120L/mL | 160L/mL | 200L/mL

Withholding Periods – Cattle

<table>
<thead>
<tr>
<th>Milk</th>
<th>48 hours</th>
<th>60 hours</th>
<th>72 hours</th>
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</thead>
<tbody>
<tr>
<td>Meat</td>
<td>10 days</td>
<td>10 days</td>
<td>10 days</td>
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</tbody>
</table>

Not for use in bobby calves. 100mL PET bottle. Store in a cool place (2–8ºC). Do not freeze.

Duplocillin LA

A long-acting penicillin in a ready-to-use aqueous suspension. Contains 150mg (150,000 IU) procaine penicillin and 112.5mg (150,000 IU) benzathine penicillin per mL.

Duplocillin LA provides high initial therapeutic levels with prolonged action.

Duplocillin LA is absorbed in a biphasic manner. The procaine penicillin establishes therapeutic concentrations relatively quickly, while a prolonged effect is provided by penicillin presented as the benzathine salt.

Indications

For the treatment of infections caused by bacteria sensitive to penicillin where a long-acting therapy is required.

Benefits of Duplocillin LA

- Single dose penicillin
- Formulation contains two different salts, giving biphasic absorption:
  - procaine penicillin is absorbed rapidly, giving the initial peak
  - benzathine penicillin forms a depot for prolonged action.

Dosage

1mL per 25kg by sc or iv injection.

Weight | 50kg | 100kg | 200kg | 300kg | 400kg | 500kg
-------|------|------|------|------|------|------
Procaine Penicillin | 7mL/2mL | 14mL/4mL | 28mL/8mL | 42mL/12mL | 56mL/16mL | 70mL/20mL

Withholding Periods – Cattle

<table>
<thead>
<tr>
<th>Milk</th>
<th>120 hours</th>
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</thead>
<tbody>
<tr>
<td>Meat</td>
<td>30 days</td>
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</table>

Not to be used in bobby calves. 120mL PET double-stopper at less than 17ºC. Do not freeze.
Neomycin Penicillin 100/200

Broad-spectrum, ready-to-use aqueous suspension containing 100mg neomycin base (as sulphate) and 200,000 IU procaine penicillin per mL. Favoured for equine use.

Well tolerated, giving broad-spectrum antibacterial cover.

**Indications**

A first line therapy for urinary tract infections, pneumonia and metritis, and as an ancillary component of the treatment regime for mastitis and gastroenteritis in horses, cattle, pigs, sheep.

**Dosage**

1mL per 20kg by i/m injection

<table>
<thead>
<tr>
<th>Weight</th>
<th>50kg</th>
<th>100kg</th>
<th>200kg</th>
<th>300kg</th>
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<td>2.5mL</td>
<td>5mL</td>
<td>10mL</td>
<td>15mL</td>
<td>20mL</td>
<td>25mL</td>
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</table>

**Withholding Periods – Cattle**

- Milk: 72 hours
- Meat: 35 days

Not for use in bobby calves.

100mL PET bottle. Store in a cool place (2–8ºC). Do not freeze.

**Benefits of Neomycin Penicillin**

- Broad-spectrum injectable antibiotic
  - Penicillin provides Gram-positive cover
  - Neomycin provides Gram-negative cover and activity against some penicillin-resistant organisms
- Potential for synergy of the actives against a number of isolates.

**Oxytetrin LA**

A broad-spectrum oxytetracycline for long-acting use. Contains 200mg/mL oxytetracycline.

Oxytetrin LA is of particular value when, for practical or economic reasons, repeated handling and dosing of the animal is not feasible.

**Indications**

For the treatment and control of infectious diseases of cattle, sheep and pigs caused by organisms sensitive to tetracyclines.

- Infections of the respiratory tract (pneumonia)
- Urogenital tract infections (mastitis, metritis, cystitis)
- Alimentary tract infection (enteritis)
- Wounds and abscesses
- Joint infections.

**Dosage**

1mL per 10kg by i/m injection

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**Withholding Periods – Cattle**

- Milk: 7 days
- Meat: 28 days

Not for use in bobby calves.

100mL bottle. Store below 25ºC. Protect from light.

**Benefits of Oxytetrin LA**

- Truly broad-spectrum
- Active against a wide range of Gram-positive and Gram-negative bacteria, and certain rickettsiae
- Peak antibacterial levels are achieved in 4–8 hours following i/m injection (suitable for acute infections)
- Persistent blood levels are provided for up to 3 days, thus avoiding repeated animal handling.
Prescription Animal Remedies (P.A.R.) Class I. For use only under the authority or prescription of a veterinarian.