**The clinical significance of in vitro data has not been determined.**

For use by or on the order of a licensed veterinarian. Extra-label use in food-producing animals is prohibited. Cattle intended for human consumption must not be slaughtered within 28 days from the last treatment. This product is not approved for female dairy cattle 20 months of age or older, including dry dairy cows. The effects of enrofloxacin on cattle or swine reproductive performance, pregnancy and lactation have not been determined.

**First.** Baytril 100 is the first single-dose fluoroquinolone FDA-approved for the treatment of bovine respiratory disease (BRD) and the control of BRD in beef and non-lactating dairy cattle at high risk of developing BRD.

**Four major BRD pathogens.** Baytril 100 has bactericidal activity against the major bovine pathogens *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni* and *Mycoplasma bovis*.

**Bactericidal.** Baytril 100 has a mode of action that actually kills the bacteria causing infection by destroying bacterial DNA and preventing bacterial replication.

**Concentration-dependent.** Baytril 100 is concentration-dependent, delivering effective therapeutic drug concentrations with a single dose.

**Effective.** In cattle, Baytril 100 reaches therapeutic drug concentrations at the site of infection in the lung in 1-2 hours.¹

**Kills the bacteria.** *In vitro,* Baytril 100 kills 97% of BRD-causing bacteria in 1-2 hours.² And the sooner bacteria are killed, the faster a calf will feel better and get back to work eating.

**Temperature reduction.** In field trials, significant improvements in temperature and attitude scores were noted within 24 hours of treatment.³

**Easy syringability.** Baytril 100 is syringable in cold weather,⁴ making it an easily stored injectable solution (do not refrigerate; and protect from freezing and exposure to direct sunlight).

**Beef & Dairy.** Baytril 100 is approved for use in non-lactating dairy cattle, including dairy replacement heifers < 20 months of age.

**Subcutaneous.** Single-dose Baytril 100 is administered by a subcutaneous injection in compliance with BQA guidelines.

**Available in three convenient sizes.** Baytril 100 lets you select the bottle size that best fits your needs. Look for it in the 100 mL, 250 mL and 500 mL amber glass bottles.

³. Freedom of Information Summary for Baytril® 100 (enrofloxacin) Injectable, NADA:141-068.
⁴. Syringeability and viscosity testing of Baytril 100 Injectable Solution – Report 03-02 (BL3168).
Bactericidal antibiotics kill infectious bacteria. Bacteriostatic antibiotics inhibit/ slow the growth of infectious bacteria.

### Baytril 100

Baytril 100 is bactericidal. Its mode of action destroys the DNA of BRD-causing bacteria.

#### Major Antibacterials: Modes of Action

<table>
<thead>
<tr>
<th>Antibacterials</th>
<th>Modes of Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cephalosporins</td>
<td>Beta-lactamase-resistant penicillins and cephalosporins that are active against Gram-positive bacteria and some Gram-negative bacteria.</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Beta-lactamase-resistant penicillins and cephalosporins that are active against Gram-positive bacteria and some Gram-negative bacteria.</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Broad-spectrum, broad-spectrum antibiotics that are active against both Gram-positive and Gram-negative bacteria.</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Broad-spectrum, broad-spectrum antibiotics that are active against both Gram-positive and Gram-negative bacteria.</td>
</tr>
</tbody>
</table>

#### Cattle

- **Single-Dose Therapy (BRD Treatment):** Baytril 100 is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Mannhemia haemolytica, Pasteurella multocida, Haemophilus parasuis, Streptococcus suis, and other beta-lactamase-resistant Gram-negative bacteria. Baytril 100 is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, and Actinobacillus pleuropneumoniae. Baytril 100 is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis. Baytril 100 is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis. Baytril 100 is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis.

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- **Single-Dose Therapy (Control Of SRD):** Baytril 100 is indicated for the treatment of swine respiratory disease (SRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis. Baytril 100 is indicated for the treatment of swine respiratory disease (SRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis. Baytril 100 is indicated for the treatment of swine respiratory disease (SRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis. Baytril 100 is indicated for the treatment of swine respiratory disease (SRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, Mycoplasma hyopneumoniae, Actinobacillus pleuropneumoniae, and Streptococcus suis.

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#### Product Mode of Action Chart

<table>
<thead>
<tr>
<th>Bacterial Cell</th>
<th>Activity</th>
<th>Mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Baytril 100</td>
<td>Bactericidal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Destroys DNA</td>
</tr>
</tbody>
</table>

#### Bacterial Cell Injury

Baytril 100 is bactericidal. Its mode of action destroys the DNA of BRD-causing bacteria.

### ADVERSE REACTIONS

- **In Cattle:** No adverse reactions were observed during clinical trials.
- **In Swine:** For additional information about adverse drug experiences reporting for animals, contact FDA at 1-888-FDA-VETS or via email at http://www.fda.gov/animalVeterinary/adverseDrugExperiences.

### MICROBIOLOGY

Baytril 100 is an antibacterial and antimicrobial agent. Baytril 100 is resistant to beta-lactamase-producing bacteria and prevents the beta-lactamase enzyme from degrading the antibiotic. Baytril 100 is resistant to beta-lactamase-producing bacteria and prevents the beta-lactamase enzyme from degrading the antibiotic. Baytril 100 is resistant to beta-lactamase-producing bacteria and prevents the beta-lactamase enzyme from degrading the antibiotic.

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