Baytril®
Antibacterial Tablets
(enrofloxacin)

A compelling choice for UTI
Reasons to consider Baytril® (enrofloxacin) Antibacterial Tablets for your next patient with a urinary tract infection

- Achieves therapeutic concentrations throughout the urinary tract, including kidneys, prostate and bladder wall
- Active against most uropathogens¹
- Concentrates in the urine at levels up to 100X those of plasma²
- Flexible dosing option in dogs
  - offers convenient, effective therapy for lower UTI in as few as three days¹
  - can deliver urine drug concentrations (enrofloxacin + ciprofloxacin) far exceeding levels considered protective against *E. coli* mutant selection in an *in vitro* model³*

Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian. In rare instances, use of this product in cats has been associated with Retinal Toxicity. Do not exceed 5 mg/kg of body weight per day in cats.

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

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³ Daniels JB et al. (2013) Fluoroquinolone levels in health dog urine following a 20 mg/kg oral dose of enrofloxacin exceed mutant prevention concentration targets against *Escherichia coli* isolated from canine urinary tract infections. *J Vet Pharmacol Ther.* 37:201-204.
**Baytril® (enrofloxacin)**

**Antibacterial Tablets for Dogs and Cats**

**CAUTION:** Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

Federal law prohibits the extralabel use of this drug in food-animals.

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**DESCRIPTION:** Enrofloxacin is a synthetic chemotherapeutic agent from the class of the quinolone antibiotics. It is a fluorine-containing antibacterial that inhibits bacterial replication at the DNA supercoiling stage. Among other things, such compounds lead to the cessation of cell respiration and division. They may also be used for treatment of certain parasitic infections. Enrofloxacin is bactericidal, with activity against both Gram-negative and Gram-positive bacteria. The minimum inhibitory concentration (MIC) of enrofloxacin for a series of 39 isolates representing 9 genera of bacteria from natural infections in dogs and cats, selected primarily because of their frequency of occurrence, was 0.5 mg/liter for all bacterial species, including coliforms, coxiella, chlamydia, enterococci, ehrlichia, kennemore, leusin, salmonella, streptococcus, staphylococcus, tularemia, trimethoprim. MIC values are not available against these isolates are presented in Table I. Most strains of these organisms were susceptible to enrofloxacin, although for those not susceptible, the MIC may be successively re-determined for the organisms and enrofloxacin concentrations should provide the following MIC values for reference strains.

**Chromatographic and Colorimetric Analytical Data:**

<table>
<thead>
<tr>
<th>Organisms</th>
<th>Isolates</th>
<th>MIC Range (mg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. coli</td>
<td>1</td>
<td>0.125 – 0.25</td>
</tr>
<tr>
<td>p. mirabilis</td>
<td>10</td>
<td>0.06 – 0.25</td>
</tr>
<tr>
<td>e. coli</td>
<td>5</td>
<td>0.125 – 0.25</td>
</tr>
<tr>
<td>e. cloacae</td>
<td>10</td>
<td>0.125 – 0.25</td>
</tr>
<tr>
<td>p. aeruginosa</td>
<td>20</td>
<td>0.06 – 0.25</td>
</tr>
<tr>
<td>s. aureus</td>
<td>10</td>
<td>0.125 – 0.25</td>
</tr>
</tbody>
</table>

**Actions:**

- **Microbiology:** Quinolone carboxylic acid derivatives are classified as DNA-gyrase inhibitors. The mechanism of action of these compounds is very complex and not yet fully understood. The site of action is bacterial DNA gyrase, a DNA synthesis promoting enzyme. The effect on DNA synthesis may begin within a few minutes after the antibiotic is administered. The inhibition of DNA gyrase is irreversible and can also be seen in nonreplicating bacteria. The inhibition of DNA gyrase is the bactericidal effect of enrofloxacin. Enrofloxacin is bactericidal, with activity against both Gram-negative and Gram-positive bacteria. The MIC values for enrofloxacin against these isolates are presented in Table I. Most strains of these organisms were susceptible to enrofloxacin, although for those not susceptible, the MIC may be successively re-determined for the organisms and enrofloxacin concentrations should provide the following MIC values for reference strains.

**Dosage:**

- **Dogs:** Oral administration of Baytril® Tablets (or Baytril® capsules) at a daily rate of 10 mg/kg of body weight is recommended. The drug should be administered once daily and divided into two equal doses. The daily dose is given in Table I. For cats, the daily dose is given in Table II.

**ADVERSE REACTIONS:**

- **Dogs:** Adverse reactions include vomiting, depression, inappetence, incoordination and convulsions, but they returned to normal. Baytril® is contraindicated in animals with known or suspected retinal toxicity. Do not exceed 5 mg/kg of body weight per day in cats. Safety in breeding or pregnant cats has not been established. Keep out of reach of children.

**PRECAUTIONS:**

- **Dogs:** Adult orally at a rate of 5-20 mg/kg (2.27 to 9.07 mg/lb) of body weight daily. Selection of the dosage depends on the severity of disease, and susceptibility of the pathogen. Animals which receive doses in the upper end of the dose range should be monitored for clinical signs that may include depression, vomiting, and depression.

**WARNS:**

- **Dogs & Cats:** The duration of treatment should be based on clinical evidence. Generally, administration of Baytril tablets should continue for at least 5-15 days beyond the last clinical or subclinical signs of the disease. For severe and/or complicated infections, more prolonged therapy may be necessary. In cases of moderate to severe infections, the diagnosis should be reevaluated and a different course of therapy considered. The lower limit of the dose range in dogs and the daily dose for cats was based on body weight to achieve the desired therapeutic effect. The use of Baytril in dogs and cats as indicated in the product insert.

**STORAGE:**

- **Tablets:** Store in tightly closed containers. Baytril Tablets should be stored at or below 77°F (25°C).

**REFERENCES:**


**Bayer Healthcare LLC**

**Animal Health Division**

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