

# Enroflox<sup>®</sup> 100

(enrofloxacin)

**APPROVED FOR  
SINGLE-DOSE  
BRD TREATMENT & CONTROL**



**Enroflox<sup>®</sup> 100**  
(enrofloxacin)

Federal law restricts this drug to use by or on the order of a licensed veterinarian. Federal law prohibits the extra-label use of this drug in food-producing animals. 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. Use in these cattle may cause drug residues in milk and/or calves born to these cows. A withdrawal period has not been established in pre-ruminating calves. Do not use in calves to be processed for veal. Use with caution in animals with known or suspected CNS disorders. Observe label directions and withdrawal times. See product labeling for full product information.

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# BEEF PRODUCERS ASKED FOR IT, NORBROOK DELIVERS...



## Enroflox<sup>®</sup> 100 Approved for Single Dose & Multi-Day Treatment and Control

- ➔ Same active ingredient and dosing regimen as Baytril<sup>®</sup>100
- ➔ FDA-Approved for the treatment and control of Bovine Respiratory Disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni* and now *Mycoplasma bovis* in beef and non-lactating dairy cattle
- ➔ Easy-to-inject, safe and effective

## Enroflox<sup>®</sup> 100 ... Three Convenient Dosing and Treatment Options

### Single-Dose Therapy (BRD Treatment):

**Enroflox 100** is indicated for the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni* and *Mycoplasma bovis* in beef and non-lactating dairy cattle.

### Multiple-Day Therapy (BRD Treatment):

**Enroflox 100** is indicated for the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni* in beef and non-lactating dairy cattle.

### Single-Dose Therapy (BRD Control in High-Risk Cattle):

**Enroflox 100** is approved for the control of BRD in beef and non-lactating dairy cattle at high risk of developing BRD associated with *M. haemolytica*, *P. multocida*, *H. somni* and *M. bovis*. Administer a single dose to cattle at high risk of BRD due to stresses including transportation, extreme environmental conditions and processing (e.g. castration, dehorning).

## Enroflox<sup>®</sup> 100 Dosing Chart\*

Weight (lb)	Treatment		Control
	Single-Dose Therapy 7.5-12.5 mg/kg	Multiple-Day Therapy 2.5-5.0 mg/kg	Single-Dose Therapy 7.5 mg/kg
	Dose Volume (mL)	Dose Volume (mL)	Dose Volume (mL)
100	3.5 - 5.5	1.5 - 2.0	3.5
200	7.0 - 11.0	2.5 - 4.5	7.0
300	10.5 - 17.0	3.5 - 6.5	10.5
400	14.0 - 22.5	4.5 - 9.0	14.0
500	17.0 - 28.5	5.5 - 11.5	17.0
600	20.5 - 34.0	7.0 - 13.5	20.5
700	24.0 - 39.5	8.0 - 16.0	24.0
800	27.5 - 45.5	9.0 - 18.0	27.5
900	31.0 - 51.0	10.0 - 20.5	31.0
1000	34.0 - 57.0	11.0 - 23.0	34.0
1100	37.5 - 62.5	12.5 - 25.0	37.5

\*Dose volumes have been rounded to the nearest 0.5 mL within the dose range. Administered dose volume should not exceed 20 mL per injection site.



### What is Enroflox® 100 Injection?

**Enroflox 100** is an FDA-approved sterile, ready-to-use injectable antimicrobial solution that contains enrofloxacin, a broad-spectrum fluoroquinolone antimicrobial agent.

**Enroflox 100** is approved for the treatment and control of Bovine Respiratory Disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni* and now *Mycoplasma bovis* in beef and non-lactating dairy cattle.

**Enroflox 100** is also approved for use in dairy replacement heifers < 20 months of age.

### What is enrofloxacin?

Enrofloxacin, the active ingredient in **Enroflox 100**, is a fluoroquinolone antibiotic. Fluoroquinolones interfere with bacterial DNA replication. Enrofloxacin exhibits a broad spectrum of antibacterial activity against both Gram-positive and Gram-negative bacteria.

### How does Enroflox® 100 compare to Baytril® 100?

**Enroflox 100** has the same active ingredient (enrofloxacin) and dosing regimen as Baytril® 100.

### How is Enroflox® 100 supplied?

**Enroflox 100** is supplied in convenient and cost competitive 100 mL, 250 mL and 500 mL bottles to fit any size operation.



### How is Enroflox® 100 administered in cattle?

**Enroflox 100** can be administered three ways in beef cattle:

**Single-Dose Therapy (BRD Treatment):** Administer, by subcutaneous injection, a single dose of 7.5-12.5 mg/kg of body weight (3.4-5.7 mL/100 lb).

**Multiple-Day Therapy (BRD Treatment):** Administer daily, a subcutaneous dose of 2.5-5 mg/kg of body weight (1.1-2.3 mL/100 lb.). Treatment should be repeated at 24-hour intervals for three days. Additional treatments may be given on Days 4 and 5 to animals that have shown clinical improvement but not total recovery.

**Single-Dose Therapy (BRD Control):** Administer, by subcutaneous injection, a single dose of 7.5 mg/kg of body weight (3.4mL/100 lb.).

Selection of the appropriate dose and duration of therapy should be based on an assessment of the severity of disease, pathogen susceptibility and clinical response. **Enroflox 100** dose volume should not exceed 20 mL per injection site.

### How quickly does Enroflox® 100 start killing BRD-causing bacteria?

**Enroflox 100** is concentration-dependent, delivering effective therapeutic drug concentrations with a single dose. In vitro\*, enrofloxacin kills 97% of BRD-causing bacteria in 1-2 hours<sup>1,2</sup>

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

1 Blondeau J.M., Borsos S., Blondeau L.D., Blondeau B.J., Hesje C. The killing of clinical isolates of *Mannheimia haemolytica* (MH) by enrofloxacin (ENR) using minimum inhibitory and mutant prevention drug concentrations and over a range of bacterial inocula. In: ASM Conference on Pasteurellaceae; 2005 October 23-26; Kohala Coast, Big Island, Hawaii: American Society of Microbiology; 2005. Abstract B12.

2 Blondeau J.M., Borsos S.D., Hesje C.H., Blondeau L.D., Blondeau B.J. Comparative Killing of Bovine Isolates of *Mannheimia haemolytica* by Enrofloxacin, Florfenicol, Tilmicosin and Tulathromycin Using the Measured Minimum Inhibitory Concentration (MIC) and Mutant Prevention Concentration (MPC) Drug Values. In: International Meeting of Emerging Diseases and Surveillance (IMED), Vienna, Austria, February 23-25, 2007. Figures 8-10.



Observe label directions and withdrawal. See product labeling (following page) for full product information.

