

ENROFLOXACIN EIA (5101ERFX1p)

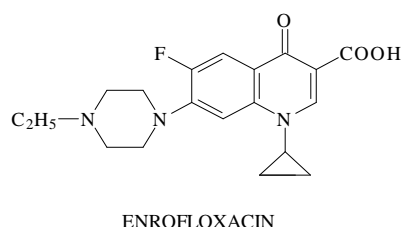
General

Enrofloxacin is a synthetic antibiotic which acts by inhibition of bacterial DNA-gyrase. This antibiotic is administered to cattle, pigs, turkeys and chickens for the treatment of infections of the respiratory and alimentary tract. In Europe the MRL's for the sum of enrofloxacin and its active metabolite ciprofloxacin have been fixed at 100 µg/kg for muscle tissue and fat and up to 300 µg/kg for kidney and / or liver dependent of its species origin.

The antiserum used in the EIA is specific for enrofloxacin and does not cross-react with any of the other fluoroquinolones tested. For detection of most Fluoroquinolones in one test we advise the generic Fluoroquinolones EIA (5101FLUQG1p).

Kit characteristics

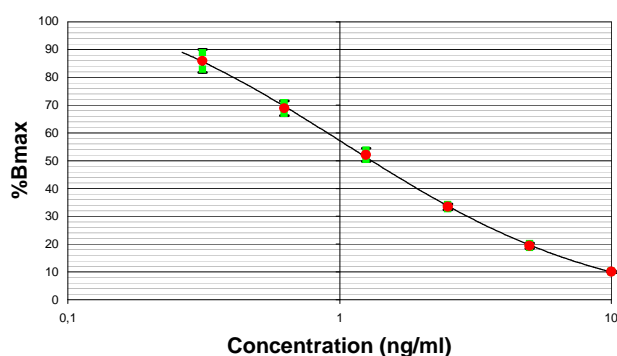
- **Microtitre plate:**
12 x 8 break 4 wells
- **Antibody cross reactivity:**
 - Enrofloxacin 100%
 - All other fluoroquinolones tested < 0.1%
- **Conjugate**
Enrofloxacin-HRPO stabilized
- **Standard range ready to use:**
0, 0.313, 0.625, 1.25, 2.5, 5.0 and 10 ng/ml
- **Shelf life:**
Maximum 14 months
Kit components are reusable after opening the kit.



Assay procedure

Antibody, conjugate and sample/standard are pipetted into the wells and incubated for 1 hour at 37°C. After a washing procedure ready to use substrate is added and incubated for 30 minutes at room temperature. Stop the reaction and read in a spectrophotometer at 450 nm. A calculation program is available upon request

Calibration Curve Enrofloxacin



Assay characteristics

Matrices and sample preparation,

Milk: defatting and dilution in buffer
Serum: direct after dilution in buffer
Tissue^{*1}: methanol extraction
Egg: methanol extraction
Urine: direct after dilution in buffer

LOD (ppb)^{*2}

6
2.5
10
9
7

Recovery Rate^{*2}

> 90%
> 90%
> 90%
> 80%
> 90%

*1 Tissues: meat, shrimp.

*2 LOD (Limit of Detection) and Recovery data; Validation according SANCO/1085/2000.