



FLUOROQUINOLONES ELISA (5101FLUQG)

General

Fluoroquinolones are a synthetic class of antibiotics which all act by inhibition of bacterial DNA-gyrase. The antiserum used in the ELISA is directed against the main Fluoroquinolones including Enrofloxacin and its main metabolite Ciprofloxacin. In combination with our specific ELISA against Flumequine nearly all Fluoroquinolones can be screened for in a fast and reliable way.

Kit characteristics

- **Microtiter plate:**
12 x 8 break 4 wells
- **Antibody cross-reactivity:**

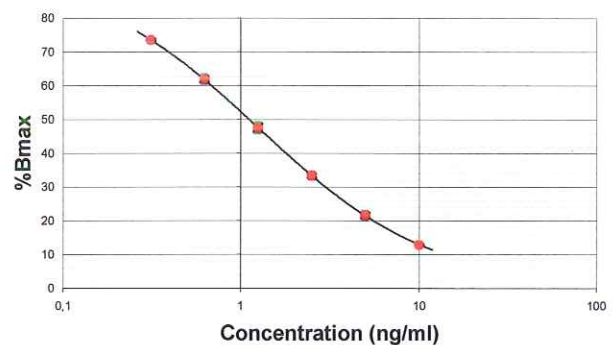
Ciprofloxacin	124%	Fleroxacin	40%
Norfloxacin	100%	Ofloxacin	18%
Enrofloxacin	92%	Marbofloxacin	16%
Danofloxacin	89%	Pipemidic acid	5%
Nadifloxacin	85%	Gatifloxacin	5%
Pefloxacin	70%	Sarafloxacin	4%
Piromidic acid	62%	Levofloxacin	3%
Oxolinic acid	57%	Flumequine	2%
Enoxacin	57%	Difloxacin	1%
Lomefloxacin	40%	Pazufloxacin	1%
- **Conjugate**
Norfloxacin-HRP stabilized
- **Standard range (ready-to-use):**
0, 0.313, 0.625, 1.25, 2.5, 5.0 and 10 ng/ml
Stock standard 100ng/ml

Assay procedure

Antibody, conjugate and sample/standard are pipetted into the wells and incubated for 1 hour at 2°C - 8°C. After a washing procedure ready-to-use substrate is added and incubated for 30 minutes at RT (20°C - 25°C). Stop the reaction and read in a spectrophotometer at 450 nm.

A calculation program is available upon request.

Calibration Curve Fluoroquinolones



Assay characteristics

Matrices and sample preparation,

- Milk: defatting and dilution in 8% methanol
- Serum: direct after dilution in 8% methanol
- Tissue: method 1
- Tissue: method 2 80% methanol extraction
- Egg: 40% methanol extraction
- Urine: direct after dilution in 8% methanol
- Honey: dilution in 8% methanol
- Feed

LOD (ppb)*1

- 3
- 2.5
- 12
- 0.3
- 6
- 7
- 2
- 5

*1 LOD (Limit of Detection); Validation according SANCO/1085/2000.