

## Product information

**Product name:** Fluoroquinolones (QNS) ELISA-Test Kit

**Product number:** EF-2

**General Description:** Fluoroquinolones are a group of antibiotics that can inhibit the activity of bacterial DNA gyrase. Fluoroquinolone group mainly includes enrofloxacin and its active metabolite ciprofloxacin, danofloxacin, norfloxacin, pipemidic acid, ofloxacin, benofloxacin and others. One of widely used fluoroquinolones is enrofloxacin, which was the first fluoroquinolone antimicrobial to be used in veterinary infections by *E. coli*, *Salmonella*, *Pasteurella*, *Mycoplasma* and *Hemophilus species*.

**Principle:** This test kit is based on the competitive enzyme immunoassay for the detection of fluoroquinolones in the liver (chicken, pork), fish, shrimp, honey and serum. The coupling antigen is pre-coated on the micro-well stripes. The fluoroquinolone in the testing sample competes with the coupling antigen pre-coated on the micro-well stripes for the antibody against fluoroquinolone. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the testing sample has a negative correlation with the content of fluoroquinolone in it. This value is compared to the standard curve and the content of the corresponding fluoroquinolones is subsequently obtained.

### Specifications

**Format:** 96 wells/kit (12 strips with 8 removable wells each)

**Sensitivity:** 1 ppb

**Detection limit:** pork, and chicken liver, shrimp, fish, serum – 3 ppb; honey – 6 ppb

**Crossreaction rate:** Enrofloxacin 100%, ciprofloxacin 92.88%, ofloxacin 98.86%, oxolinic Acid 116.86%, danofloxacin 102.63%, norfloxacin 148.65%, lomefloxacin 86.24%, pefloxacin 156.60%, enoxacin 98.97%, flumequine 96.73%, marbofloxacin 110.63%, amifloxacin 98.86%, nadifloxacin 56.81%, fleroxacin 38.79%, piromidic acid 36.77%, levofloxacin 21.36%, difloxacin 20.16%, sarafloxacin 13.78%, nalidixic acid 10.11%, cinoxacin 6.40%, gatifloxacin 6.12%, pipemidic acid 5.23%, tosufloxacin 3.16%, orbifloxacin 2.23%, pazufloxacin 2.17%, benofloxacin 1.12%

**Sample processing time:** pork and chicken liver – 50 min; shrimp and fish – 20 min; serum and honey – 10 min.

**Detection time:** 80 min.

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