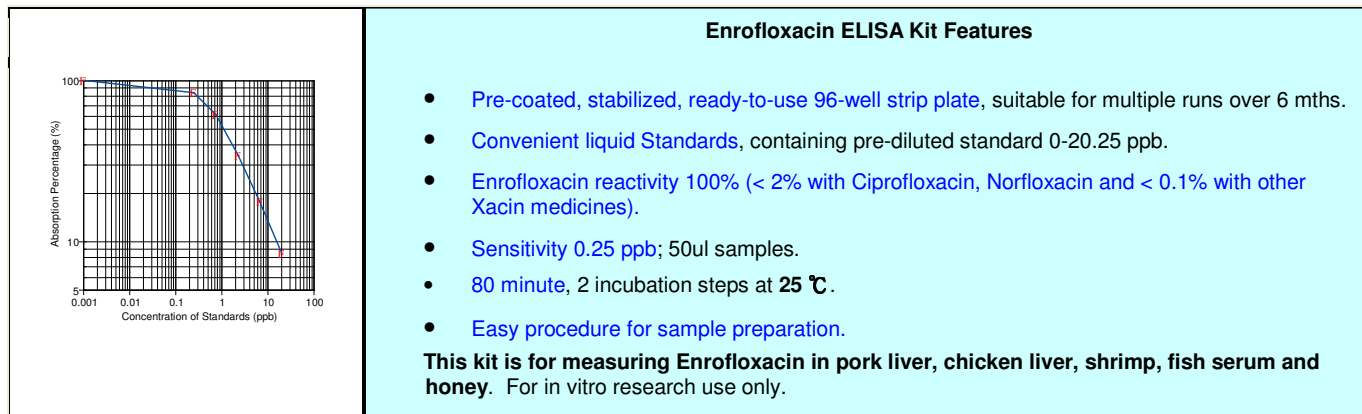


Enrofloxacin ELISA kit | Qualitative & Quantitative | **Stds = 0-8.1 ppb** | **Sample= 50 ul**; **80 min** assay | Sensitivity 0.25 ppb



Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipet **50 ul of each standards** and samples containing Enrofloxacin (diluted as required), **50 ul of the enzyme conjugate** solution and **50 ul of antibody working** solution in duplicates into the wells. Seal the plate, mix gently and incubate at **25 °C for 1 hr.**
- Step 2.** **Aspirate and wash** the plate five times.
- Step 3.** Add **50 ul of Substrate A** solution and then **50 ul of Substrate B** solution to all wells, mix gently, and incubate at **25 °C for 15 min in the dark** for coloration.
- Step 4.** Pipet **50 ul of stop solution** into each well and mix gently (blue color turns yellow). **Measure OD at A450 nm.** Calculate concentration of **Enrofloxacin** in each sample using the Enrofloxacin Standard curve.

General Information

Enrofloxacin is a synthetic antibiotic derived from the class of fluoroquinolone carboxylic acid. Its chemical formula is C₁₉H₂₂FN₃O₃ and its molecular weight is 359.4 g/mol. It is a pale yellow, crystalline substance and is slightly soluble in water. However, it can become more soluble in water if acidic or basic solutions are added to it. Fluoroquinolone is a quinolone with a fluorine atom attached to the central ring system. Quinolone is derived from chloroquine and is used as a chemotherapeutic agent to treat serious, complicated, life threatening bacterial infections. Chloroquine was first discovered by the Hans Andersagin 1934 in Eberfeld, Germany at the Bayer I.G. Farbenindustrie A.G. laboratories. Enrofloxacin is an antibiotic sold by Bayer Corporation as the name of Baytril. It is currently FDA approved to treat pets and domestic animals in the United States. Enrofloxacin is widely effective within gram-positive and gram-negative organisms. Enrofloxacin mechanism works by interfering with the bacteria DNA metabolism and inhibiting two enzymes called topoisomerase II in gram-negative and topoisomerase IV in gram-positive. Topoisomerases are enzymes that uncoil and coil DNA to help control and synthesize the production of protein. It can be used to treat Pseudomonas aeruginosa, Klebsiella, E. coli, Enterobacter, Campylobacter, Shigella, Salmonella, Aeromonas, Haemophilus, Proteus, Yersinia, Serratia, Vibrio, Brucella, Chlamydia, Staphylococci, Mycoplasma, and Mycobacterium. It does not work well against anaerobic bacteria. In September of 2005, FDA removed the approval of Baytril for use in water to treat chickens and poultry. This disapproval was about the concern that the antibiotic can promote evolution of fluoronquinolone-resistant strains of the bacterium Campylobacter, which is a human pathogen. Enrofloxacin is approved to be used in dogs and cats to treat infections such as, skin infections, urinary tract infections, respiratory infections and wound infections caused by bacteria. If given in high doses it can cause articular cartilage abnormalities in dogs. Side effects include vomiting, diarrhea, and elevated liver enzymes. Alpha Diagnostic Int'l's Enrofloxacin ELISA kit is a highly sensitive competitive type assay for the measurement of enrofloxacin in pork liver, chicken liver, shrimp, fish, serum and honey.

Related Items:

DE-100010	Clenbuterol ELISA kit, 96 tests (For Urine, Serum, Feed, Meat, Liver)	Qty/Size
DE-100020	Ractopamine ELISA kit, 96 tests (For Liver, Urine, Feed)	1 kit
DE-100030	Salbutamal ELISA kit, 96 tests (For Urine, Tissue, Feed, Animal Tissue, Aquatic, Honey, Intestine,	1 kit
DE-100040	Chloramphenicol ELISA kit, 96 tests (For Animal Tissue, Aquatic, Honey, Intestine, Urine, Egg, Milk, Serum)	1 kit
DE-100050	Florfenicol ELISA kit, 96 tests (For Animal Tissue, Aquatic, Honey)	1 kit
DE-100060	Nitrofurantoin (AMOZ) ELISA kit, 96 tests (For Fish, Shrimp, Honey, Chicken/Liver)	1 kit
DE-100070	Nitrofurantoin (AHD) ELISA kit, 96 tests (For Fish, Shrimp, Honey, Chicken/Liver)	1 kit
DE-100075	Nitrofurantoin (SEM) ELISA kit, 96 tests (Honey, Fish, Shrimp, Chicken/Liver, Fish/Shrimp)	1 kit
DE-100080	Nitrofurantoin (AOZ) ELISA kit, 96 tests (For Fish, Shrimp, Honey, Chicken/Liver)	1 kit
DE-100090	Sulfonamides Residues (SAs) ELISA kit, 96 tests (For Chicken/Liver, Pork/Liver, Honey/Egg, Serum/Urine, Milk)	1 kit
DE-100100	Sulfanethazole (SM2) ELISA kit, 96 tests (For Chicken/Liver, Pork/Liver, Honey/Egg, Serum/Urine, Milk)	1 kit
DE-100110	Sulfamethoxydiazine (SMD) ELISA kit, 96 tests (For Chicken/Liver, Pork/Liver, Honey/Egg, Serum/Urine)	1 kit
DE-100120	Quinolones (QNS) ELISA kit, 96 tests (For Pork/Liver, Chicken/Liver, Shrimp, Fish, Serum, Honey)	1 kit
DE-100130	Enrofloxacin ELISA kit, 96 tests (For Pork/Liver, Chicken/Liver, Shrimp, Fish, Serum, Honey)	1 kit
DE-100140	Ampicillin ELISA kit, 96 tests (For Pork/Liver, Chicken, Duck, Shrimp, Fish, Honey, Milk)	1 kit
DE-100150	Benzyl Penicillin ELISA kit, 96 tests (For Pork/Liver, Chicken, Duck, Shrimp, Fish, Honey, Milk)	1 kit
DE-100160	Tylosin ELISA kit, 96 tests (For Meat, Liver, Honey, Egg)	1 kit
DE-100170	Trenbolone ELISA kit, 96 tests (For Animal Tissue, Aquatic, Urine)	1 kit
DE-100180	Diazepam ELISA kit, 96 tests (For Tissue, Urine, Feed)	1 kit
DE-100190	Diethylstilbestrol (DES) ELISA kit, 96 tests (Fish, Shrimp, Liver, Meat, Feed, Urine)	1 kit
DE-100200	Gentamicin ELISA kit, 96 tests (Chicken/Liver)	1 kit
DE-100210	Streptomycin ELISA kit, 96 tests (Chicken/Liver, Honey, Milk)	1 kit
DE-100230	Olaquinox ELISA kit, 96 tests (Tissue)	1 kit
DE-100240	Sulfaquin-oxaline ELISA kit, 96 tests (For Pork/Liver, Honey/Egg, Serum/Urine, Milk)	1 kit

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