EFFICIENCY OF NEW ANTIMICROBIAL PREPARATION
BASED ON DANOFLOXACIN IN THE TREATMENT
OF GASTROINTESTINAL DISEASES OF CHICKENS

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For today the most developed industry of stock-raising in Ukraine is the
poultry farming. Efficiency of conduct of this industry depends on an epizootic
situation, namely - from the level of stored of bird. The major sign of quality of foods
of the poultry farming are indexes of their unconcern for a consumer, in particular, it
is absence in the products of causative agents of infectious diseases.

Fluoroquinolones through unique and wide range of antimicrobial activity to
this day remains one of the most effective means of chemotherapy of infectious
diseases of bacterial etiology in farm animals.

The results of studies of isolates sensitivity *Escherichia coli*, isolated from
patients with clinically colibacteriosis broiler chickens, for a new antibacterial drug
Danoksan-50 based on antibiotic danofloxacin, fluoroquinolones of the third
generation, are presented.

The results showed high antimicrobial activity of the drug in relation to
isolated cultures of *E. coli*.

According to the results of test of sensitivity obtained by disco-diffusion
method, nine isolates *Escherichia coli* (90%) showed high sensitivity to
danofloxacin, moderate sensitivity – only one strain (10%). Resistant strains of
*E. coli* to danofloxacin were not found. The average of the minimum inhibitory
concentration (MIC) of danofloxacin for isolates of *Escherichia coli* was 0.4 μg/ml
(range 0.1-1.6 μg /ml).

The effectiveness of a new drug in the treatment of symptomatic forms of
colibacillosis of broiler chickens also are showed.

The new antimicrobial preparation Danoksan-50 in method of adding, dosage
and duration of use, recommended by the manufacturer, is an effective
chemotherapeutic agent for treatment of coli-infection in chickens caused by
susceptible to danofloxacin strains of *Escherichia coli*.

**Keywords:** DANOFLOXACIN, ANTIMICROBIAL ACTIVITY, *
*ESCHERICHIA COLI*, EFFICIENCY, TREATMENT, CHICKENS.