

## THE INFLUENCE OF WATER TREATED WITH ELECTROMAGNETIC VIBRATIONS ON WATER CONSUMPTION, GROWTH OF BROILER CHICKENS AND QUALITY INDICATORS OF THE MEAT

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**Abstract.** Effect of the water treated with electromagnetic vibrations on the broiler chicken's water consumption, growth of broiler chickens and quality indicators of the meat was investigated.

The broilers in both groups were fed *ad libitum* with granulated the standard feed of the same composition and the same nutritional value, except the addition of the water treated with electromagnetic vibrations for trial group. Feed and water consumption is the major factor that influences both the body weight gain and feed conversion in meat-type poultry, had a positive impact on the chemical composition of meat and carcass of meat. In the trial group, the amount of dry matter ( $P<0.05$ ) and protein ( $P<0.05$ ) in broiler chickens' meat was larger. Most significant increase was determined on carcass yield ( $P<0.05$ ), the weight of edible parts ( $P<0.05$ ) and muscle weight ( $P<0.01$ ). Water consumption in the trial group both in separate rearing periods and during the entire rearing period was larger compared with the control group, and that could be related with more intensive growth of chickens and better liveability. Water treated with electromagnetic vibrations did not have any influence on histology of broiler's skeletal muscles.

**Keywords:** chickens, growth, water consumption, meat, carcass.