

THE USE OF SIMBIOTICS PREPARATIONS FOR THE OPTIMIZATION OF DIGESTIVE PROCESSES OF BROILER CHICKENS

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Summary. The influence of symbiotic preparations BIOMIN C-EX and BIOMIN IMBO on the digestive processes of broiler chickens were investigated experimentally. The experiment of feed nutrient digestibility was performed on 10 Ross 208 breed broiler chickens. Birds were divided into 2 groups of 5 birds each. The results of this experiment showed, that preparations BIOMIN C-EX and BIOMIN IMBO increased digestibility of feed nutrients such as organic matters – 2.62 % ($p > 0.05$), crude fat – 1.64 % ($p < 0.05$), crude protein – 1.8 % ($p > 0.05$), crude fiber – 3.3 % ($p > 0.05$) compared with control group. At the age of 35 day the broiler chickens were butchered and were determined, that after usage of BIOMIN C-EX and BIOMIN IMBO dry matter amount in excrements was 2,03 % higher and ammonia concentration in blind bags was 8 % less compared with control group ($p > 0.05$). Preparations increased concentration of volatile fatty acids in duodenum: propionic 0.39 mol %, butyric 0.71 mol %, 3-methyl-butyric 0.04 mol %, pentanoic 0.04 mol %, compared with control group ($p > 0.05$). Utilization of preparations decreased pH in glandular stomach 0.62, in duodenum – 0.06, in large guts – 0.26 ($p > 0.05$), therefore the environment in the digestive tract becomes negative for proliferation of pathogens. Data are not statistically significant ($p > 0,05$).

Keywords: synbiotic preparations, broiler chickens, digestive tract.