

Biochemical indices of the blood serum of fatteners fed with the addition of zinc oxide

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The research was conducted on 32 crossbred fatteners fed individually in a two-phase dosing system. The animals received a standard, full-ration mixture with the addition of 5% premix with an antibiotic (group C) or without antibiotic but with the addition of 0.5% zinc oxide (ZnO) during the 1-st phase of fattening, i.e. from 20 to 55 kg of body weight (group E). An influence of the ZnO addition on the biochemical indices of the blood of fatteners was determined, i.e. albumin (ALB), glucose (GLU), urea nitrogen (BUN), total protein (TP), alkaline phosphatase (ALP), cholesterol (CHOL), total triglycerides (TRIG), lipoprotein fractions (HDLC, LDL, VLDL), CHOL/HDL and aminotransferase AST and ALT. Significant differences were stated between group C and E as concerns TRIG, VLDL and AST activity, in favour of group E. No decrease of cholesterol level and lipoprotein fraction LDL was noticed in fatteners receiving supplement of ZnO. The received results do not show clearly the benefits of the use of ZnO for a longer time in experimental dose in the fattening of fatteners in the 1-st phase of fattening.