AGE DYNAMICS OF CONCENTRATIONS VITAMINS A AND E IN THE SERUM OF PIGLETS DURING A REARING PERIOD

V. Yefimov, D. Sofonova

Dnipropetrovsk State Agrarian and Economic University, Dnipropetrovsk, Ukraine
yefimov@ukr.net

Age dynamics of concentrations vitamins A and E in the serum of piglets during the growing period are determined. The studies were conducted on pigs, weaning of piglets were performed at 21 days of age. Blood was collected with an interval of 5 days during the growing period. In the blood serum level of retinol and tocopherol was determined by reversed-phase HPLC.

It is shown that the content of vitamins A and E in the blood serum of piglets changed with age: tocopherol level decrease after weaning and reaches its minimum value on the thirtieth day after weaning, and the content of retinol is at a low level until the twenty-fifth day of the growing period and then increases to the normal values, that can be explained by age characteristics of the digestive system and the effects of weaning

Piglets, growing period, vitamins A and E, HPLC