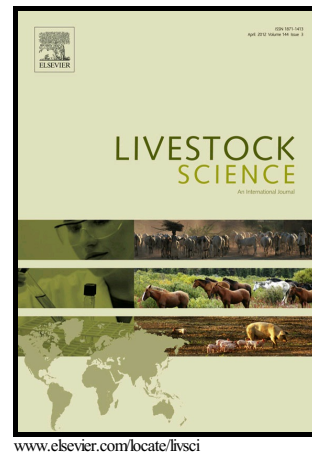


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Effects of vitamin supplementation on growth performance and carcass characteristics in pigs

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ABSTRACT

Three experiments involving a total of 405 crossbred pigs were performed to evaluate the effects of increasing vitamin supplementation on growth performance and carcass characteristics. A common vitamin premix (VP) that provided adequate amounts of vitamins (4 fat-soluble and 7 B vitamins), was added at varied levels in Exp. 1 and 2. Experiment 1 used 125 weanling pigs with initial body weight (BW) of 7.5 ± 0.2 kg. Dietary treatments were basal diet with 0.00, 0.05, 0.10, 0.25, and 0.50 % added VP. The experimental diets were fed for 28 d in a single phase. The results demonstrated that average daily gain (ADG) and average daily feed intake (ADFI) linearly increased ($P < 0.005$) with increasing VP levels during d 14 to 21, d 21 to 28, and the overall 28-d period. Experiment 2 used 100 crossbred pigs with initial BW of 49.4 ± 1.0 kg. Dietary treatments were basal diet with 0.05, 0.10, and 0.15 % added VP. The experimental diets were fed for 67 d in a single phase. The results showed that the increasing VP levels did not affect growth performance or carcass characteristics of grower to finisher pigs. Experiment 3 was designed to evaluate the effects

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