EFFICACY OF ADSORBENTS AND ANTIOXIDANTS IN REDUCING THE EFFECTS OF MYCOTOXINS IN BROILERS AND PIGS

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Abstract

The objective of this research was to evaluate the efficacy of adsorbents (RC, CC, UP) and antioxidants (TCM, CMN) in ameliorating the toxic effects of aflatoxin B₁ (AF), and a combination of mycotoxins (MM) in chicks and weanling pigs. In the first study, chicks were assigned to 6 replicate pens of 5 chicks assigned to 10 dietary treatments from hatch to day 21. The addition of AF and MM in the feed reduced (P < 0.05) growth compared to control chicks. The reduction in performance was eliminated by the addition of RC and CC to the AF diet. Addition of UP to the MM diet ameliorated (P < 0.05) the decreased performance caused by MM. In the second study, six 5-week-old barrows were assigned to each of 10 dietary treatments for 26 days. The addition of AF and MM to the basal diet reduced performance of pigs. Performance of pigs was not improved with the addition of TCM or CMN to the AF diet, but 0.50% UP improved performance compared to MM alone.