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## Effects of adding soybean oil and antioxidant in feed on production performance and gastrointestinal pH & enzyme activity of piglets

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**Abstract:** The impact of adding soybean and antioxidant in feed on production performance and gastrointestinal pH&enzyme activity of piglets was researched; the piglets were fed with 4kinds of feed respectively: "corn-soybean meal type feed" for group, "15% soybean of feed" for group I, "15% soybean oil feed + 100mg/kg VE" for group III, "15%soybean oil feed + 100mg/kg PerBP" for group I, the test piglets were slaughtered when they were 25kg. The results showed that in average dally gain, group I was obviously lower than group II and group IV. In feed-meat ratio, group I was obviously lower than group II. Gastrointestinal pH, group I was obviously lower than group II and group. Pancreatic trypsin, group II was obviously lower than group I and group III, extremely lower than group IV. Duodenal lipase, group I was obviously lower than group III, extremely lower than group IV, group II was obviously lower than group III and group IV. Jejunum lipase, group I was obviously lower than group III, extremely lower than group IV, group II was obviously lower than group III and group IV.

**Key words:** soybean oil; anti-oxidant; piglet; production performance; activity