

## Effect of Product Capability of Pigs for Append Wood Vinegar in Dali Ration

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**Abstract:** The purpose of this experiment through the wood vinegar liquid preparation as feed additive-free anti-feed with antibiotics as feed additives in conventional feed compared, in order to study the wood vinegar liquid alternative to antibiotics on the production performance of fattening pigs. The study includes: 1, wood vinegar liquid on fattening weight gain and economic aspects; 2, wood vinegar liquid antibiotics to fatten pigs and digestion and absorption of nutrients; 3, wood vinegar liquid on meat quality traits of fattening; 4, wood vinegar and Antibiotics on fattening pork amino acids and fatty acid effects; 5, wood vinegar and Antibiotics on fattening pigs conventional blood indexes. Test selection the same age, same species, no significant difference in body weight of 45 weaned piglets were divided into group of wood vinegar, wood vinegar liquid mixed with the antibiotic group, antibiotic group. Three groups were 0.5% of the wood vinegar, wood vinegar, and 0.25% (+0.125% 0.125% oxytetracycline A casual acid) mixture, 0.25% oxytetracycline +0.25% A casual acid mixture as feed additive preparation Chengquan price with the diet. Each test group 15 weaned piglets, group equipped with three repeat, each repetition 5 weaned piglets. The one-dimensional linear analysis of variance, weight of weaned piglets in each group were not significantly different ( $P > 0.05$ ). Tests carried out in four phases, the first task for the completion of animal feeding trials; the second task is before the end of the feeding trial testing the contents of the required samples and sent to laboratories for laboratory analysis; third-year mandate for the trial The results of the statistical data, using statistical software spss 13.0 version; fourth for the thesis writing. Wood vinegar to the fattening effects of weight gain and cost-effectiveness test results showed that: at the same level of feeding conditions, the antibiotic group were significantly higher than the average daily gain of wood vinegar group 11.52% ( $P < 0.05$ ), higher than the mixed group of 4.76% ( $P < 0.05$ ). Wood vinegar mixed with the antibiotic group than the antibiotic group of higher cost 34.1 yuan/head. Wood vinegar and Antibiotics on finishing pigs digest and absorb nutrients affect the test results showed that: 1. Wood vinegar mixed with antibiotics as feed additives for fattening pigs increased feed digestion and absorption of calcium and phosphorus, were increased by 22.47% ( $P < 0.05$ ), 51.84% ( $P < 0.05$ ). 2, wood vinegar is safe for use as feed additives to the production of fattening pigs, especially in wood vinegar has shown to reduce the amount of antibiotic residues in pork role. Wood vinegar pork quality traits for fattening effects of experimental results show that: wood vinegar as feed additives can significantly improve the fattening pigs eye muscle area 27.90% ( $p < 0.05$ ), lower backfat thickness 28.57% ( $p < 0.05$ ), an increase rates and taste of cooked meat ( $P < 0.05$ ), and the use of safety. Wood vinegar and Antibiotics on finishing pigs conventional indicators of the impact of the blood test results showed that: wood vinegar increased fattening pigs in the blood hematocrit and mean corpuscular volume, were increased by 27.5% and 27.59% ( $P < 0.05$ ), right other blood showed no adverse effects. Wood vinegar and Antibiotics on fattening pork amino acids and fatty acids affect the test results showed that: 1, wood vinegar liquid can increase the pork in a health effect on the human body of oleic acid and linolenic acid content were increased by 8.1% ( $P < 0.05$ ), and 0.65% ( $P < 0.05$ ). But also reduces the myristic acid and palmitic acid content; 2, wood vinegar liquid in improving the meat content of essential amino acids also increased with the flavor of meat-related glutamic acid, arginine, leucine, Val ammonia acid and glycine content...

**Key words:** Woodvinegar; antibiotics; feed-additive; produc-performance

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