The Effect of *Bacillus Subtilis* (PerMicro BS 1702) on Production Performance of Broilers

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Abstract: 540 feather Wuhei broilers (one-day-old) from closely related species were selected for this trial. They were divided into two groups, including control group and trial group, each group had three replicates, each replicate had 90 broilers, the whole test period was 63 days. Control group was fed with basic ration(without antibiotics and only addition of ordinary *Bacillus subtilis*) , 1-21-day-old broilers in trial group were fed with 400mg/kg PerMicro BS 1702 based on basic ration; 22-42-day-old broilers in trial group were fed with 400mg/kg PerMicro BS 1702 based on basic ration; 43-63-day-old broilers in trial group were fed with 200mg/kg PerMicro BS 1702 based on basic ration. The trial results showed that the average weight gain in trial group increased by 23.7g for per broiler (about 1.21%), F/G decreased by 0.06, cost to gain ratio decreased by 0.13 RMB, and mortality rate was significantly decreased by 70.74% during the whole feeding period. So, the improvement effects of PerMicro BS 1702 on growth performance of Wuhei broilers are the best at early stages, while it is suggested that 150mg/kg PerMicro BS 1702 is added at later stage. On the whole, it is requested by diets without antibiotics that PerMicro BS 1702 is an advantageous feed additive more than ordinary *Bacillus subtilis*.

Key words: *Bacillus Subtilis*, PerMicro BS 1702, Broiler, Production Performance