Agrotechnol 2018, Volume 7
DOI: 10.4172/2168-9881-C1-031

Effects of multi-strain lactobacilli supplementation on growth performance and immunostimulation in weaned pigs

Pairat Sornplang and Sudthidol Piyadeatsoontorn
Khon Kaen University, Thailand

Many factors cause social and environmental stresses during the weaning period of pigs which leads to performance decreases and mortality increases. The aim of this study was to evaluate the effect of lactobacilli probiotics isolated from pig feces on growth performance and immunostimulation in weaned pigs. A total of 60 weaning pigs were divided into 5 groups (12 piglets per group) as follows: Group-1 (control group- C) provided basal feed and water (B), Foot and Mouth Disease vaccine (FMDv) and no probiotic; group-2 provided B, no FMDv and no probiotic, group-3 provided B, FMDv and Lactobacillus plantarum L21 (concentration at 109 CFU/ml), group-4 provided B, FMDv and the combination of 109 CFU/ml of Lactobacillus plantarum (L21 and L80) and Lactobacillus paraplantarum L103 and group-5 provided B, FMDv and commercial probiotic strains. The experiment started from day 21 to day 42. The results showed that supplementation of multi-strain lactobacilli (group-4) was the highest growth performance and enough for stimulating the humoral immunity to FMDv compared to the control group. Multi-strain probiotics in this study could be used together with the vaccination program in weaned pigs.

pirson@kku.ac.th

Notes: