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Effects of dietary supplementation with combinations of organic and medium chain fatty acids as replacements for chlortetracycline on growth performance, serum immunity, and fecal microbiota of weaned piglets

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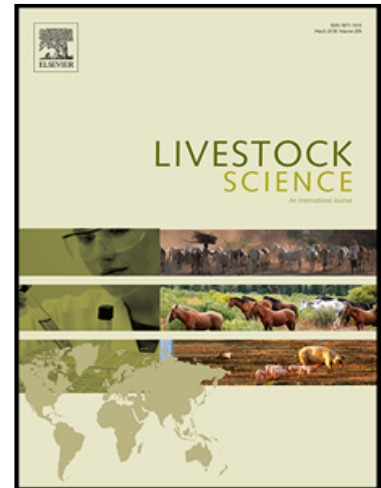
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Highlights

- Dietary supplementation with combinations of organic acids and MCFAs improved growth performance, reduced diarrhea rate, and enhanced serum immunity by regulating the microbiota of weaned piglets.
- High throughput sequencing results show that the improved growth performance of weaned piglets may be related to increased relative abundance of Firmicutes.
- The increased relative abundance of *Lactobacillus* and *Faecalibacterium*, and decreased relative abundance of *Escherichia-Shigella* may have contributed to decreased incidence of post-weaning diarrhea and increased immunity together with antioxidant of weaned piglets.
- Combinations of organic acids and MCFAs can be fed as potential alternatives to chlortetracycline administration to weanling piglets.

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