

Supplementing lysolecithin with emulsifier and monoglycerides to diets reformulated to lower energy on performance and lean-fat deposition in fattening pigs

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Introduction

The energy level of the feed is a determining factor for the growth and feed efficiency of fattening pigs. Meeting the energy needs of fattening pigs with high conformation has shown to improve growth rate and, above all, feed conversion ratio. This implies formulating feed with high-energy and high-costly ingredients. Minimizing feed costs while maintaining performance remains a key objective for pig producers. This is of particular concern considering that feed accounts for 70-80% of pig production costs. By improving nutrient absorption, supplementary lysolecithin has been shown to improve growth performance of growing pigs. Therefore, a study was designed to demonstrate the efficacy of supplementing a combination of lysolecithin, synthetic emulsifier and monoglycerides (LEX) to diets reformulated to lower net energy (NE), on the performance parameters and the deposition of fat and lean meat.

Experimental design and diets

✓ 560 piglets of 29 kg LW (10-12 weeks of age). Duration 88 days. \checkmark 2 treatments. 20 pens (10 O and 10 O) of 14 pigs per treatment.

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| Growing feed (6-28 days) | | Fattening feed (28-88 days) | | |
|--------------------------|---------|--|---------|--|
| Nutrient | CONTROL | CONTROL REFORMULATED (-60 kcal/kg NE) + LEX | CONTROL | CONTROL REFORMULATED (-60 kcal/kg NE) + LEX |
| Crude Protein (%) | 15.7 | 15.7 | 15.7 | 15.7 |
| Ether Extract (%) | 4.86 | 3.86 | 4.58 | 3.72 |
| SID Lysine (%) | 1.021 | 1.021 | 0.983 | 0.983 |



