Potassium diformate in the diet of reproducing sows: Effect on performance of sows and litters

Abstract

The effects of adding potassium diformate (K-diformate) to diets for primiparous and multiparous sows (Dutch ×

Scandinavian Landrace) (n = 156) were evaluated with respect to performance of sows and their litters, apparent

total tract digestibility (TD) of nutrients, milk composition, and microbiota of sows' feces.

Treatments comprised a basal diet and a basal diet containing 0.8 or 1.2% K-diformate. The experiment lasted from

mating, through gestation and lactation until the next mating.

Sows were fed restrictively according to a commercial feeding regime during the gestation period, and had free

access to feed from d 10 post-farrowing. The addition of K-diformate to diets increased backfat thickness (P = 0.03)

of sows during gestation. No effects on average daily feed intake or body weight gain were seen.

Piglets born to sows receiving K-diformate tended to have increased individual (P = 0.05) and litter (P = 0.08) birth

weight, tended to have increased average daily gain (ADG) (P = 0.07) and to be heavier at weaning (P < 0.05). Birth

weights, ADG, and weaning weights were similar for piglets born from sows fed 0.8 and 1.2% K-diformate. There

was no effect of K-diformate on the number of pigs born alive, number of stillborns or mortality rates of piglets.

 $Adding \ 1.2\% \ K-diformate \ to \ diets \ increased \ TD \ of \ ash \ by \ 4.9\% \ (P=0.001) \ and \ crude \ fat \ by \ 3.4\% \ (P=0.08), \ and \ and$

calculated NE-content by 2.3% (P = 0.02). Sows fed K-diformate tended (P = 0.09) to show an increased milk fat

content on d 12 post-farrowing.

In conclusion, adding K-diformate to diets for sows had a positive effect on sows' backfat thickness in gestation and

on growth performance of piglets.

Keywords

SowsPigletsPotassium diformateGrowth performanceDigestibilityMilk composition

Cited By

The article is quoted from the research results and data reports of well-known international researchers-hereby

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Potassium Diformate, Sodium Diacetate, Calcium Formate

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More in-depth product exchange, organic acid product supplying, get more consultations.