

Reproductive performance of gilts and sows associated with their serum insulin-like growth factor-I and the supplementation of fermented potato protein.

Author(s) : Benjasiriwan, J. ; Amornrutchayavijarn, J. ; Raksakom, C. ; Chaiyawan, T. ; Tummaruk, P.

Author Affiliation : Faculty of Veterinary Sciences, Chulalongkorn University, Bangkok 10330, Thailand.

Author Email : Jeeranan_jah@hotmail.com

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Abstract : The present study aims to determine the influence of fermented potato protein supplementation in feed on the concentrations of serum insulin-like growth factor-I (IGF-I) and reproductive performances in gilts and sows. Two experiments were conducted: Exp I included 61 gilts were fed with conventional gilt feed (n=30) or conventional gilt feed supplemented with the fermented potato protein (Lianol®) (n=31). Serum IGF-I concentrations were measured before and after the feed supplementation. In Exp. II included 119 sows were fed with a conventional lactation feed (n=58) or conventional feed supplemented with the fermented potato protein (n=61). Reproductive performance data were recorded. In conclusions, the supplementation of the fermented potato protein in gilts did not alter their serum IGF-I and reproductive performances. Nevertheless, the supplementation of the fermented potato protein in sows significantly decreased WSI and FSI.

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