

EFFECTS OF A MULTI-COMPONENT MYCOTOXIN DETOXIFIER ON THE ANTIOXIDANT STATUS AND THE PERFORMANCE OF SOWS

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INTRODUCTION

Sows are highly susceptible to mycotoxins. The consumption of mycotoxin multi-contaminated diets can result in a variety of

symptoms, mainly due to the oxidative stress induced. Reproductive failures and disruptions in the piglets' development can occur. Supplementing sows' diets with mycotoxin-detoxifying agents helps to prevent and mitigate mycotoxins toxicity through adsorbing the mycotoxins and reducing the oxidative stress, enhancing the health status and the reproductive performances.

OBJECTIVE

The aim of this study was to evaluate the effects of an anti-mycotoxins agent on the antioxidant capacity, health and reproductive performance of gestating-lactating sows under mycotoxins challenge.

MATERIALS AND METHODS

Commercial farrow-to-finish sows			Farm 1	Farm 2
	T1-Control		Feed 1	Feed 2
80 primiparous sows /farm (Large White x Landrace, DanBred) 2 replicates/treatment (T1 and T2) 20 sows/replicate	Contaminated feed	FB1	2767.5 ppb	FB1 5109.4 ppb
		FB2 700.5 ppb	FB2 13801 ppb	
		ZEN	14.6 ppb	AFR1 51 nnh
		T-2 4.2 ppb		
Non antibiotic administration				
Naturally contaminated diets			Feed 1	Feed 2





p < 0.001 p = 0.009hmol/L

Results observed in farm 1 and 2 presented the same line



16

14

ets/s



Score

The use of the multi-component mycotoxin-detoxifier in primiparous sows promotes their reproductive performances and improves their antioxidant status under mycotoxins multi-contamination challenge.



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 $p < 0.001 \quad p < 0.001$