Soytide

Effects of Fermented Soybean Meal as an Antibiotics Replacer for Broiler

NongLam University, Vietnam, 2017

Objectives

A research was conducted to evaluate the influence of soytide as a antibiotic replacer for broiler

Feeding Trial Design

- 400 One-day-old broiler (Ross 308, mixed sex)
- Duration of 42 days, with 8 replicates per treatment (10 birds/pen)
- Broilers were fed five different diets by replacing soybean meal
- N-CON, P-CON, and 5% inclusion with Soytide and ETSBM

Diets	Pre-starter (1-14d)	Starter & Grower (15-42d)
N-CON	SBM	Commercial diet (same diet)
P-CON[1]	SBM + Antibiotics	
Soytide[2]	5% Soytide	
ETSBM[3]	5% ETSBM	

[1] Commercial antibiotics
[2] *Bacillus* fermented SBM, CP=55%, CJ CheilJedang, Korea
[3] *Enzyme* treated SBM, CP=55%, Denmark

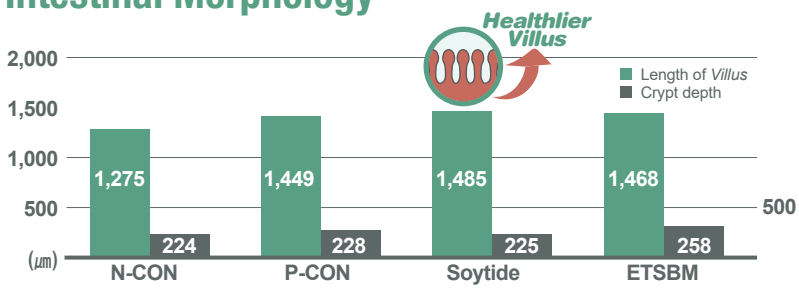
Results

Growth Performance

Treatment	N-CON	P-CON	Soytide	ETSBM
ADG[1]	56.96 ± 2.34	58.58 ± 2.46	60.43 ± 3.83	59.20 ± 2.41
FCR[2]	1.84 ± 0.07	1.80 ± 0.08	1.73 ± 0.05	1.79 ± 0.06

[1] Average daily weight gain
[2] Feed Conversion Ratio

Intestinal Morphology



Feed Cost Saving

● For 1,000 birds

Items	N-CON	P-CON	Soytide	ETSBM
Average feed price (USD/kg)	382.3	383.0	**383.9**	384.2
FCR	1.84	1.80	**1.73**	1.79
Feed cost/kg gain (USD)	703.4	689.4	**664.2**	687.7
Compared to N-CON (%)	100	98.0	**94.4**	97.8
Compared to P-CON (%)	102	100	**96.3**	99.8

Conclusion

- 5% dosage of Soytide only for two weeks,
  - Efficiently replace the antibiotic compared to other products,
  - Best growth performance (ADG + 2.6g, FCR - 0.11) and
  - Low ANFs of Soytide helps development of villi in early stage.
- Total feed cost saved 39.2 USD / kg gain (for 1,000birds) compared to SBM diet.

Soytide

Effects of Fermented Soybean Meal Supplementation on Growth Performance for Broiler

Konkuk University, 2015

Objectives

These experiments were carried out to evaluate the growth performance and cost efficiency with various soybean meal products for broiler

Feeding Trial Design

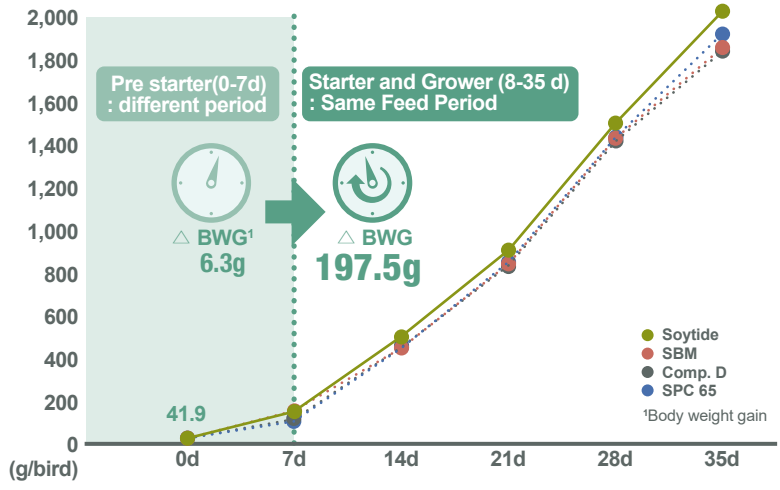
- 600 One-day-old Cobb male broiler chicks
- Duration of 35 days, with 6 replicates per treatment (25 birds/pen)
- Broilers were fed four different diets by replacing soybean meal with Soytide, Comp. D and SPC.

Diets	Pre-starter (1-7d)	Starter & Grower (8-35d)
Control	SBM	Commercial diet (same diet)
Treatment 1	3% Soytide	
Treatment 2	3% Comp. D	
Treatment 3	3% SPC	

[1] *Bacillus* fermented SBM, CP=55%, CJ CheilJedang, Korea
[2] *Lactobacillus* fermented SBM, CP=50%, Taiwan
[3] Soy Protein Concentrate SBM, CP=65%, USA

Results

Growth Performance



Feed Cost Saving

Period	Soybean Meal			Soytide			Gap
	Price ($/kg)	FI[1] (g)	Feed Cost ($)	Price ($/kg)	FI[1] (g)	Feed Cost ($)	
Pre-starter	458.8	167.7	76.9	468.5	162.7	76.2	-0.7
Starter	440.0	1125.2	495.1	440.0	1135.0	499.7	+4.3
Grower	430.0	992.3	426.7	430.0	915.9	393.8	-32.9
SUM		2285.1	**998.7**		2213.5	**969.4**	**-29.3**

[1] Feed Intake

Conclusion

- 3% dosage of Soytide only for a week showed, Best growth performance (BWG +197.5g, FCR -0.12, Breeding period -1.8d)
- Total feed cost saved 29.3 USD/kg gain (for 1,000birds) compared to SBM diet