



## — FEEDING TRIAL PERFORMANCE REPORT —

A 5-week growth performance assay was conducted at South Dakota State University by Dr. Hans Stein to evaluate the efficacy of the fermented soy product, PepSoyGen as a protein source for 20 day-old weanling pig diets. Piglets fed PepSoyGen performed equally to fishmeal fed pigs in all growth parameters.

### Methods and Materials:

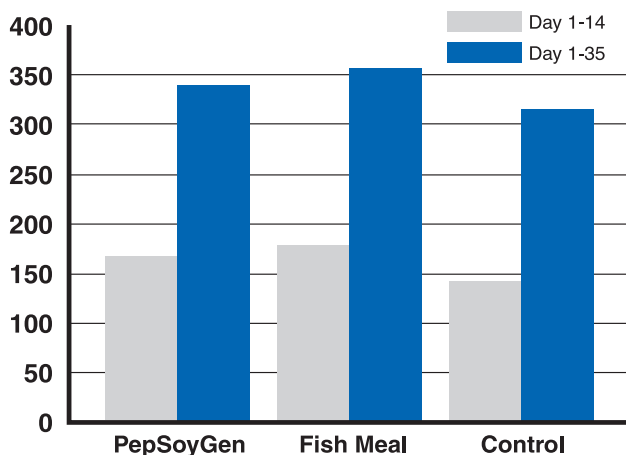
Piglets weaned at 20 days of age (Initial body wt. 6.34 + or – 0.17 kg) were assigned to one of four dietary treatments. All pigs were fed a phase 1 diet for the first 14 days post-weaning, with the following common ingredients: 4% spray dried plasma protein; 20% dried whey powder and approximately 40% corn. All phase 2 diets were fed the following 21 days and contained approximately 65% corn, no plasma or whey powder. Soybean meal was included at 30% of the diet in the phase 1 and 2 negative control diets, with PepSoyGen or fishmeal included at the expense of soybean meal in the treatment diets.

### The dietary treatments were as follows:

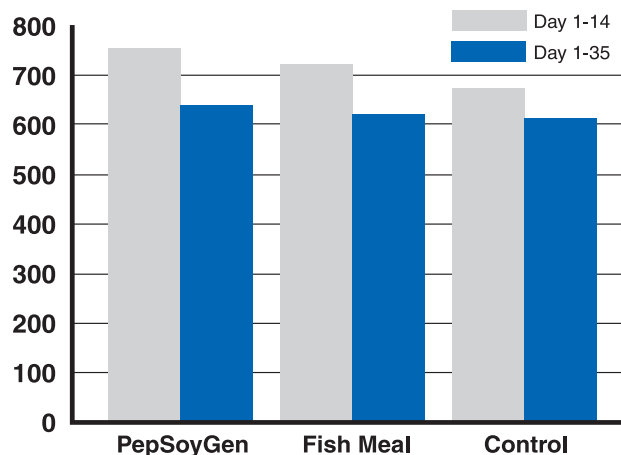
Diet	Phase	Soybean Meal %	PepSoyGen %	Fishmeal %
Control	1 & 2	30	0	0
PepSoyGen	1 & 2	23	7	0
Fishmeal	1 & 2	23	0	7

Individual body weights were recorded at weaning, at the end of phase 1 and at the end of the experiment. Daily feed allotments were recorded, as well. The data were summarized at the end of the trial to calculate average daily gain (ADG), average daily feed intake (ADFI) and average gain to feed ration (G:F). Data were analyzed using SAS with the experimental being the pen for all calculations. An analysis of variance was conducted and treatment means were separated using an LSD test.

**PepSoyGen® vs Fish Meal, ADG**



**PepSoyGen® vs Fish Meal, G:F**



## Results and Discussion:

The data are presented in the table below. No differences were detected in any of the response parameters measured in this experiment. Numerically the data were very similar for ADG, ADFI and G:F in pigs fed either PepSoyGen or fishmeal. The results of this trial suggest that PepSoyGen can be used as a substitute for fishmeal in piglets weaned at 20 days of age.

Item	Diet:	Control	PepSoyGen	Fishmeal	SEM	P-Value
Start Weight, kg		6.35	6.34	6.34	0.50	0.98
Weight at 14 days, kg		8.32	8.69	8.84	0.71	0.61
Final Weight, kg		17.40	18.66	18.98	1.17	0.35
ADG, day 1-14, kg		146	168	179	22	0.29
ADG, day 15-35, kg		430	462	475	28	0.28
ADG, day 1-35, kg		311	342	352	24	0.25
ADFI, day 1-14, kg		197	221	249	23	0.13
ADFI, day 15-35, kg		717	770	806	44	0.17
ADFI, day 1-35, kg		503	545	575	33	0.14
Average G:F, day 1-14,kg		682	757	715	46	0.11
Average G:F, day 15-35,kg		595	601	590	15	0.29
Average G:F, day 1-35, kg		608	628	613	18	0.20