

# Technical Bulletin #29

## — FEEDING TRIAL PERFORMANCE REPORT —

**SUMMARY:** In a trial conducted in November and December of 1998 by “De Schothorst” Institute for Animal Nutrition (Netherlands) the inclusion of 3% **DPS 50RD** (45% crude protein) significantly increased feed intake and daily gain by 5-12% depending on the ingredients of the control diet.

**MATERIALS & METHODS:** Two separate trials were conducted. In both trials there were two treatments: a control diet and 3% **DPS 50RD**. A total of 258 piglets were used for the two trials. Piglets were weaned at 26 days of age with average initial weight of 8.0 kilos. The same treatments were fed for 4 weeks post weaning. Pens with 8 piglets each were the experimental units. In trial one, there were 6 pens per treatment and in trial two, there were 10 pens per treatment. All diets were typical European diets except none of the diets contained anti-microbials. In trial one, the growth performance and fecal consistency appeared low. Therefore, the diets were improved by replacing legume seeds with cereal grains for trial 2. Feed data and weight gain were recorded at 14 and 28 days post-weaning.

**RESULTS:** In trial one, ADG and ADFI were improved with the **DPS 50RD** treatment in weeks 1-4. Feed conversion in the **DPS 50RD** group was improved in weeks 1-2, but not in weeks 3-4. In trial 2 ADG and ADFI were equal in both groups in weeks 1 and 2. However, in weeks 3 and 4 **DPS 50RD** significantly increased ADG and ADFI. In both trials piglets fed **DPS 50RD** had significantly higher ADG and ADFI over the 4 week test period. Feed conversion was similar for the 2 treatments.

**RESULTS TABLE: ADG in grams**

	Trial 1			Trial 2		
	Control	3% DPS 50RD	P	Control	3% DPS 50RD	P
ADG weeks 1-2	147	183	0.05	238	238	>0.50
ADG weeks 3-4	453	491	0.05	461	496	0.06
ADG weeks 1-4	298	334	0.02	346	362	0.06

**RESULTS TABLE: ADFI IN GRAMS**

	Trial 1			Trial 2		
	Control	3% DPS 50RD	P	Control	3% DPS 50RD	P
ADFI weeks 1-2	218	250	0.07	308	308	> 0.50
ADFI weeks 3-4	704	770	0.07	754	812	0.02
ADFI weeks 1-4	457	506	0.04	523	551	0.05

**RESULTS TABLE: FEED CONVERSION (Feed per Unit of Gain)**

	Trial 1			Trial 2		
	Control	3% DPS 50RD	P	Control	3% DPS 50RD	P
DFC weeks 1-2	1.50	1.39	0.05	1.30	1.30	> 0.50
DFC weeks 3-4	1.56	1.57	> 0.50	1.64	1.64	> 0.50
DFC weeks 1-4	1.54	1.51	0.29	1.51	1.52	> 0.50

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