

Technical Bulletin #19

— FEEDING TRIAL PERFORMANCE REPORT —

SUMMARY: In a feeding trial conducted in October 1997, by Dr. Merlin Lindemann at the University of Kentucky, **Nutra-Flo DPS 30** tested equivalent to Spray Dried Blood Cells (SDBC). Nursery pigs fed **DPS 30** had equal ADG and **better** feed efficiency compared to pigs on SDBC.

MATERIALS & METHODS: Four dietary treatments were used. Pigs were weaned at an average of 20.1 days and fed a Phase 1 diet 6 to 7 days before going on one of the four experimental Phase 2 diets. There were six replicates (pens) per treatment with 5 to 6 pigs per pen. The control diet had 3% SDBC; second treatment had 1.5% SDBC and 1.5% **DPS 30**; third treatment had 0% SDBC and 3% **DPS 30**; fourth treatment had 0% SDBC and 5% **DPS 30**. All major ingredients were held constant for all treatments, with the exception of test ingredients and amino acids. All treatments were fed for four weeks with data collection done weekly.

TABLE ONE: Cumulative Performance Results

DIETARY TREATMENTS	3.0% SDBC	1.5% DPS 30	3.0% DPS 30	5.0% DPS 30
End of Week 1				
ADG, lb/day*	0.730	0.792	0.838	0.763
ADFI, lb/day**	1.186	1.200	1.167	1.049
Feed/Gain**	1.673	1.535	1.423	1.386
End of Week 2				
ADG, lb/day*	0.951	1.007	1.027	0.967
ADFI, lb/day**	1.618	1.634	1.615	1.492
Feed/Gain**	1.708	1.627	1.577	1.548
End of Week 3				
ADG, lb/day*	1.079	1.121	1.114	1.070
ADFI, lb/day	1.949	1.926	1.938	1.763
Feed/Gain**	1.808	1.723	1.736	1.651
End of Week 4				
ADG, lb/day	1.195	1.196	1.195	1.170
ADFI, lb/day	2.222	2.128	2.175	1.986
Feed/Gain**	1.859	1.786	1.817	1.697

* Quadratic effect of **DPS 30** level, P<0.10

** Linear effect of **DPS 30** level, P<0.05

RESULTS & DISCUSSION: Cumulative ADG was significantly higher in **DPS 30** fed pigs through the first three weeks. At the end of the four weeks all treatments had similar ADG. Feed utilization (efficiency) was improved in **DPS 30** treatments. The improvement in efficiency was a linear response (P<0.05) that was maximized at 5% **DPS 30** level. This improvement in feed utilization started during week one and lasted through week four.

The Power of Peptides™