

Technical Bulletin #9

— FEEDING TRIAL PERFORMANCE REPORT —

SUMMARY: In a trial conducted in April, 1996, by Dr. Dean Zimmerman (Experiment No. 9603) at Iowa State University, Ames, Iowa, young pigs on diets with **Nutra-Flo DPS 30** had similar performance to those on diets with dried whey and spray dried plasma.

MATERIALS & METHODS: Five dietary treatments were used: A control diet with 25% dried whey, corn and soybean meal. One experimental diet with 17.5% lactose, 0% dried whey, and 5% spray dried animal plasma. And, three experimental diets with 10% dried whey; 6% **DPS 30** and 10% lactose. The three **DPS 30** diets contained **DPS 30** from three different production runs, with the purpose of checking repeatability. All diets were equal in levels of lactose, lysine and methionine. The experimental diets were fed for two weeks and then all pigs were fed a common diet for an additional two weeks. Young pigs, averaging 13 pounds were used. Each diet was fed to 4 or 5 groups with 4 or 5 animals per group. Pigs and feeders were weighed initially and weekly thereafter to calculate growth and feed performance data.

RESULTS & DISCUSSION: During week one pigs fed the animal plasma outperformed the pigs on the other diets. During the third week, when all pigs were fed a common diet, there was a trend for pigs that had previously consumed diets containing **Nutra-Flo DPS 30** to consume more feed and gain weight more rapidly than pigs on the control and plasma diet. In the fourth week this trend continued. Over the entire feeding period there were no statistical differences in performance between the five diets.

AVERAGE DAILY GAIN: Pounds per Day

WEEK	DRIED WHEY	DPS-1	DPS-2	DPS-3	ANIMAL PLASMA	DPS AVERAGE
1	0.10	0.06	0.13	0.15	0.29	0.11
2	0.60	0.59	0.61	0.59	0.72	0.60
3	0.97	1.08	1.05	1.05	0.89	1.06
4	1.06	1.23	1.17	1.40	1.09	1.27
1 to 4	0.68	0.71	0.74	0.78	0.75	0.74

AVERAGE DAILY FEED INTAKE: Pounds per Day

WEEK	DRIED WHEY	DPS-1	DPS-2	DPS-3	ANIMAL PLASMA	DPS AVERAGE
1	0.33	0.26	0.26	0.32	0.48	0.28
2	0.77	0.73	0.74	0.81	1.04	0.76
3	1.52	1.67	1.60	1.69	1.39	1.65
4	1.91	2.13	2.07	2.30	1.96	2.16
1 to 4	1.12	1.15	1.17	1.24	1.22	1.19

FEED EFFICIENCY: Pounds Gained per Pound of Feed

WEEK	DRIED WHEY	DPS-1	DPS-2	DPS-3	ANIMAL PLASMA	DPS AVERAGE
1	0.29	0.23	0.45	0.40	0.62	0.36
2	0.79	0.80	0.82	0.75	0.69	0.79
3	0.64	0.64	0.65	0.63	0.64	0.64
4	0.56	0.59	0.57	0.61	0.55	0.59
1 to 4	0.61	0.62	0.63	0.63	0.61	0.63

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