

Technical Bulletin #3

— FEEDING TRIAL PERFORMANCE REPORT —

SUMMARY: In a trial conducted in February, 1996, by Dr. Dean Zimmerman (Experiment No. 9514) at Iowa State University, Ames, Iowa, baby pigs fed starter diets in which **Nutra-Flo DPS 30** replaced dried whey significantly outperformed those fed a control diet.

MATERIALS & METHODS: Young pigs (18 to 24 days of age) were used. Three dietary treatments were tested: 1) a control starter diet containing 26% dried whey, corn and soybean meal, 2) an experimental diet with 6% **DPS 30**, and 3) one with 12% **DPS 30**. All diets were equal in lysine and lactose levels. Each treatment was fed for two weeks. Then all pigs were fed a common diet for an additional two weeks. Each diet was fed to six pens with five pigs per pen. Pigs and feeders were weighed initially and weekly for four weeks for calculation of feed and growth performance data.

RESULTS & DISCUSSION: During week one, the 12% **DPS 30** diet decreased feed intake and average daily gain. In week two, the 6% **DPS 30** diet stimulated feed intake, daily gain, and feed efficiency. In weeks 3 and 4, when all pens were fed a common diet, pigs that had previously been fed **DPS 30** outperformed pigs that had been fed the control diet (dried whey). The pigs on **Nutra-Flo DPS 30** diets consumed more feed, grew faster, and showed improved feed efficiency.

AVERAGE DAILY GAIN: Pounds per Day

WEEK	DRIED WHEY	6% DPS 30	12% DPS 30	% OF CONTROL 6% DPS 30
1	0.18	0.17	0.10	94
2	0.55	0.85	0.56	155
3	0.68	1.07	0.99	157
4	0.91	1.28	1.34	140
1 to 4	0.58	0.84	0.75	145

AVERAGE DAILY FEED INTAKE: Pounds per Day

WEEK	DRIED WHEY	6% DPS 30	12% DPS 30	% OF CONTROL 6% DPS 30
1	0.37	0.33	0.25	89
2	0.85	1.04	0.84	122
3	1.27	1.81	1.54	143
4	1.61	2.23	2.13	139
1 to 4	1.02	1.35	1.19	132

FEED EFFICIENCY: Pounds Gained per Pound of Feed

WEEK	DRIED WHEY	6% DPS 30	12% DPS 30	% OF CONTROL 6% DPS 30
1	0.41	0.45	0.39	110
2	0.66	0.83	0.66	126
3	0.53	0.59	0.64	111
4	0.56	0.57	0.63	102
1 to 4	0.56	0.62	0.63	111

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