

Research Notes D-72

Arm & Hammer Animal Nutrition



The effect of CELMANAX SCP on calf performance when supplemented in the milk replacer and grower phase

STUDY OVERVIEW

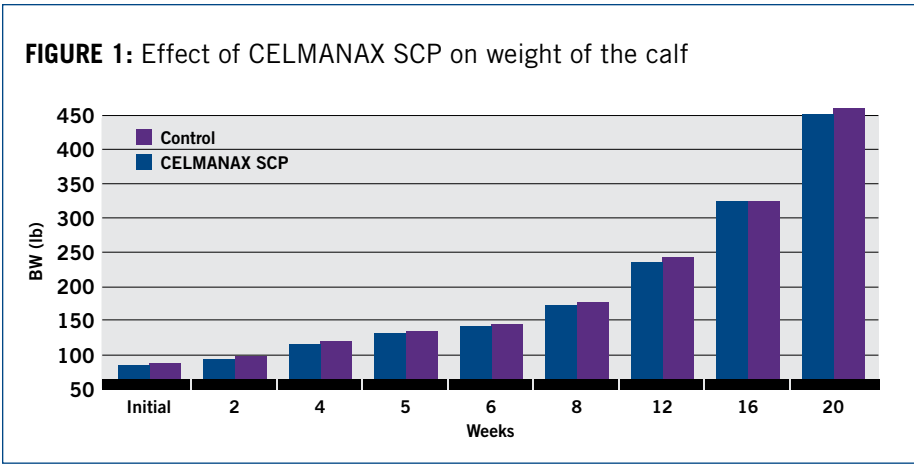
- This study¹ was conducted to evaluate the effect of supplementing CELMANAX™ SCP in non-medicated milk replacer and starter feed in dairy calves
- The study included 25 calves/treatment, starting at 1 day old, and lasted 20 weeks
- The two treatments were:
 - Control – milk replacer for 6 weeks, and control starter diet for weeks 7 – 20
 - CELMANAX SCP – milk replacer supplemented with 1 g/h/d of CELMANAX SCP for 6 weeks, and starter diet plus CELMANAX SCP at 2 g/h/d for weeks 7 – 20
- Control calves were treated with SMZ/TMP antibiotic tablets for the first 3 days while CELMANAX SCP calves were fed 3 g/h/d CELMANAX SCP for the first 2 days
- Weight gain, feed efficiency and performance of calves were recorded at weeks 6, 8 and 20

RESULTS

- Calves supplemented with CELMANAX SCP demonstrated improved weight gain numerically and were 5.4 lbs. heavier at the end of 8 weeks and 8.1 lbs. heavier at the end of 20 weeks, but results were not statistically significant
- Feed efficiency was numerically improved in the CELMANAX group, but results were not statistically significant

TABLE 1			
PERIOD	CONTROL	CELMANAX SCP	DIFFERENCE
6-Week Gain, lb	59.35	62.90	+3.55
6-Week Total Starter, lb	56.40	64.20	+7.8
6-Week FE F/G, lb	1.70	1.77	+0.07
8-Week Gain, lb	88.35	93.79	+5.44
8-Week Total Starter, lb	117.90	126.20	+8.3
8-Week FE F/G, lb	1.78	1.73	-0.05
20-Week Gain, lb	319.96	328.06	+8.09
20-Week Total Starter, lb	715.67	711.24	-4.43
20-Week FE F/G, lb	3.14	3.10	-0.04

FIGURE 1: Effect of CELMANAX SCP on weight of the calf



CONCLUSION

- Calves supplemented with CELMANAX™ SCP showed numerical improvement in weight gain and feed efficiency



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¹ Adapted from the data of: Dennis RJ, Jalukar S, Ph.D. Effect of CELMANAX SCP on calf performance when fed in the milk replacer and grower phase. J Dairy Sci 2011;94:E-Suppl. 1.

