



# 195-Day Performance-Based Initial Steer Implant Followed with Revalor<sup>®</sup>-200 as Terminal Implant

### **Trial protocol consisted of:**

- Nebraska trial location
- 1,408 steers, 6 pens per treatment, approximately 80 head per pen
- Revalor<sup>®</sup>-IS (trenbolone acetate and estradiol), Revalor-XS, and Revalor-200 given on day 0
- Revalor-200 re-implanted on day 115
- 195 days on feed
- No vaccine boosters were given

**Table 1.** Carcass adjusted performance of steers initially implanted with either Revalor-IS, Revalor-XS, or Revalor-200, and re-implanted with Revalor-200 on day 115.

Item	Revalor-IS/ Revalor-200	Revalor-200/ Revalor-200	Revalor-XS/ Revalor-200	p-value
Pens	6	6	6	
Cattle	473	471	464	
Initial shrunk weight, lb	677	672	675	0.81
DMI, lb/d	24.4	24.5	24.2	0.58
<b>Deads-in – live basis</b>				
Final weight, lb	1396	1396	1393	0.99
ADG, lb/d	4.10	4.10	4.08	0.94
F:G	5.95	5.95	5.95	0.97
<b>Deads-out – live basis</b>				
Final weight, lb	1477	1479	1470	0.70
ADG, lb/d	4.10	4.14	4.08	0.51
F:G	5.95	5.88	5.92	0.49
<b>Carcass adjusted live performance</b>				
Final weight, lb	1486	1482	1490	0.64
ADG, lb/d	4.14	4.14	4.19	0.68
F:G	5.88	5.88	5.78	0.36

**Table 2.** Carcass characteristics of steers initially implanted with either Revalor-IS, Revalor-XS, or Revalor-200, and re-implanted with Revalor-200 on day 115.

Item	Revalor-IS/ Revalor-200	Revalor-200/ Revalor-200	Revalor-XS/ Revalor-200	p-value
Hot carcass weight, lb	959	957	961	0.64
Dressing percent	65.25	65.04	65.68	0.12
Marbling score	475	457	461	0.15
Fat depth, in.	0.70 <sup>a</sup>	0.70 <sup>a</sup>	0.66 <sup>b</sup>	0.05
Ribeye area, sq.in.	14.99 <sup>a</sup>	15.17 <sup>b</sup>	15.62 <sup>b</sup>	<0.01
Calculated YG	3.51 <sup>a</sup>	3.44 <sup>a</sup>	3.20 <sup>b</sup>	0.01
<b>USDA Quality Grade, as percentage of total</b>				
Prime	2.5	1.13	1.37	0.28
Premium Choice	27.73	23.13	25.06	0.32
Low Choice	50.45	48.3	47.38	0.65
≤ Select	19.32 <sup>b</sup>	27.44 <sup>a</sup>	26.20 <sup>a</sup>	0.03
<b>USDA Yield Grade, as percentage of total</b>				
YG 1	3.91 <sup>a</sup>	5.91 <sup>a,b</sup>	8.95 <sup>b</sup>	0.03
YG 2	22.07	25.45	29.59	0.07
YG 3	45.06	40.68	44.27	0.40
YG 4	25.75 <sup>a</sup>	23.41 <sup>a</sup>	15.83 <sup>b</sup>	0.01
YG 5	3.22	4.55	1.38	0.06

**Table 3.** Morbidity, mortality, buller and removals for steers initially implanted with either Revalor-IS, Revalor-XS, or Revalor-200, and re-implanted with Revalor-200 on day 115

Item	Revalor-IS/ Revalor-200	Revalor-200/ Revalor-200	Revalor-XS/ Revalor-200	<i>p</i> -value
Total morbidity, %	15.64	13.38	14.01	0.60
Mortality, %	1.48	1.06	1.51	0.81
Buller, %	3	4	5	-
Removals, %	4.23	4.67	3.66	0.75

<sup>a,b</sup> Treatments means are significantly different (P<.05).

## Summary

Revalor-IS/Revalor-200, Revalor-XS/Revalor-200 and Revalor-200/Revalor-200 implant programs did not differ for any measurement of growth performance in steers fed for 195 days. There were no differences among implant programs for HCW or USDA marbling score. However, steers given Revalor-XS/Revalor-200 had greater REA and decreased fat thickness resulting in decreased USDA Yield Grade. Additionally, the number of carcasses grading USDA Select was lower for steers given Revalor-IS/Revalor-200. Implanting with Revalor-XS/Revalor-200 resulted in more USDA Yield Grade 1 and fewer Yield Grade 4 carcasses than the other implant treatments in this study. No differences in morbidity, mortality, number of bullers or removals were noted among implant treatments.

## Conclusion

Increasing the dose of the initial implant did not improve live or carcass performance. Administering Revalor-XS as initial implant lowered USDA Yield Grades. Initial implant of Revalor XS or Revalor 200, followed by Revalor 200 increased number of USDA Select carcasses. The current study does not support the application of an initial Revalor-200 or Revalor-XS in a re-implant program using Revalor-200 when steers are fed for 195 days.

A withdrawal period has not been established for Revalor in pre-ruminating calves. Do not use in calves to be processed for veal. For complete information, refer to product label.

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