



214-Day Revalor[®]-XS vs. Revalor-IS Re-implanted with Revalor-S

Trial protocol consisted of:

- Idaho trial location
- 2,147 head of cattle, 28 pens of approximately 77 head per pen
- Two implant treatments:
 - Revalor[®]-XS (trenbolone acetate and estradiol) on day 1
 - Revalor-IS on day 1 and Revalor-S re-implanted on day 140
- No vaccine boosters were given
- Half of the cattle were weighed at day 70, 140, 175. All cattle were weighed at day 0 and 214.
- This study was a two by two factorial experiment. Factors were 1) implant treatments (Revalor-XS or Revalor-IS/Revalor-S) and 2) interim weights or no interim weights.
- No interactions between implant program and interim weights were detected so only the main effects of implant program are shown.

Table 1. Performance of steers implanted with Revalor-IS on day 1 followed by Revalor-S on day 140 compared to steers implanted with Revalor-XS.

Item	Revalor-XS	Revalor-IS/ Revalor-S	SE	<i>p</i> -value
Pens	14	14		
Steers	1073	1074		
Days on feed	214	214		
Initial BW, lb	549	549	7	0.43
Live basis				
Final BW, lb ^a	1343	1342	10	0.70
DMI, lb/d	20.47	20.46	0.18	0.97
ADG, lb/d	3.71	3.70	0.05	0.62
F:G	5.30	5.31	0.04	0.89
Carcass basis				
Final BW, lb ^d	1344	1341	11	0.46
ADG, lb/d	3.72	3.70	0.05	0.44
F:G	5.51	5.54	0.05	0.35
Health data				
Morbidity, %	33.7	31.3	-	0.21
Mortality, %	1.01	0.65	-	0.36
Railers, %	5.4	6.6	-	0.21

^a 4% pencil shrink was applied to full weight; ^{b,c} Treatments means are significantly different (P<.05).

^d Final adjusted shrunk weight adjusted to an average overall dressing percent of trial.

Table 2. Carcass characteristics of steers implanted with either Revalor-IS on day 1 followed by Revalor-S on day 140 compared to steers implanted with Revalor-XS.

Item	Revalor-XS	Revalor-IS/ Revalor-S	SE	p-value
Pens	14	14		
Steers	1073	1074		
Hot carcass weight, lb	852	850	7	0.48
Dressing percent	63.4	63.3	0.10	0.33
Ribeye area, sq. in.	13.92	13.84	0.26	0.35
Ribeye area/cwt HCW	1.63	1.63	0.02	0.63
Marbling score ^c	452	455	8	0.38
Rib fat, in.	0.56	0.56	0.03	0.89
KPH fat, %	3.00	3.00	0.09	0.51
Empty body fat, % ^d	29.6	29.7	0.40	0.86
USDA Quality Grade, as a percentage of total				
Avg.+High Choice	22.5	25.4	-	0.14
Total Choice and Prime	71.5	72.8	-	0.50
Select	28.2	26.5	-	0.37
Standard	0.29	0.70	-	0.43
USDA Yield Grade, as a percentage of total				
YG 1	6.6	7.2	-	0.58
YG 2	29.9	26.9	-	0.14
YG 3	43.8	47.1	-	0.14
YG 4 and 5	19.7	18.7	-	0.63

^{a,b} Treatments means are significantly different (P<.05).

^c Slight = 300 to 390, Small = 400 to 490, etc.

^d Calculated according to equations described by Guiroy et al. [2001; *Journal of Animal Science* 79:1983].

Table 3. Interim growth performance by steer calves implanted with Revalor-IS followed by Revalor-S on day 140 or with Revalor-XS on day 1 only.

Item	Revalor-XS	Revalor-IS/ Revalor-S	SE	p-value
Day 1 to 69				
DMI, lb/d	16.52	16.45	0.33	0.78
ADG, lb/d	3.95	3.95	0.05	0.95
Feed efficiency	4.19	4.17	0.07	0.54
Day 70 to 139				
DMI, lb/d	21.72	21.54	0.29	0.54
ADG, lb/d	4.05 ^c	3.83 ^b	0.05	0.001
F:G	5.36 ^a	5.62 ^b	0.06	0.02
Day 140 to 174				
DMI, lb/d	21.76	21.33	0.25	0.19
ADG, lb/d	3.90 ^a	4.07 ^b	0.04	0.01
F:G	5.59 ^a	5.24 ^b	0.08	0.01
Day 175 to end				
DMI, lb/d	22.80	23.04	0.27	0.12
ADG, lb/d	3.45	3.56	0.09	0.28
F:G	6.64	6.50	0.12	0.43
Day 1 to 214				
DMI, lb/d	20.47	20.46	0.18	0.97
ADG, lb/d	3.71	3.70	0.05	0.62
F:G	5.30	5.31	0.04	0.89

^{a,b} Treatments means are significantly different (P<.05).

^c Slight = 300 to 390, Small = 400 to 490, etc.

^d Calculated according to equations described by Guiroy et al. [2001; *Journal of Animal Science* 79:1983].

Summary

There were no implant x interim weight interactions for any variables measured. Only the main effects of implant programs are reported. Groups implanted with Revalor-XS and Revalor-IS followed by a re-implant of Revalor-S did not differ for any measurements of growth performance over the 214-day feeding period. There were no differences between Revalor-XS and Revalor-IS/Revalor-S for any carcass traits measured.

Conclusion

Revalor-XS had equal growth performance and carcass characteristics when compared to a traditional implant/re-implant program of Revalor-IS/Revalor-S in steers fed for 214 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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