



**217-Day Revalor[®]-IS Re-implanted with Revalor-200
vs. Revalor-XS as an Initial Implant Re-implanted with
Performance-Based Revalor Terminal Implants
in Calf-fed Steers**

Trial protocol consisted of:

- Montana trial location
- 1,858 steer calves, blocked by source and weight (> 600 lbs. or <600 lbs.)
- 32 pens of 49 to 86 head per pen
- Four implant strategies were evaluated:
 - Revalor[®]-IS (80 mg trenbolone acetate, 16 mg estradiol) re-implanted with Revalor-200 (200 mg trenbolone acetate, 20 mg estradiol) on day 120
 - Revalor-XS (80 mg trenbolone acetate, 16 mg estradiol uncoated; and 120 mg trenbolone acetate, 24 mg estradiol coated) re-implanted with Revalor-IS on day 140
 - Revalor-XS re-implanted with Revalor-S (120 mg trenbolone acetate, 24 mg estradiol) on day 140
 - Revalor-XS re-implanted with Revalor-200 on day 140
- Cattle were re-vaccinated with Vista[®] 5 at the time of re-implanting
- All steers were fed Zilmax[®] (zilpaterol hydrochloride)



Table 1. Feedyard performance of steers implanted with different Revalor terminal implant strategies

Item	Revalor-IS/ Revalor-200	Revalor-XS/ Revalor-IS	Revalor-XS/ Revalor-S	Revalor-XS/ Revalor-200	SEM	p-value
Pens	8	8	8	8	-	-
Steers	437	450	445	449	-	-
Days on feed	217	217	217	217	-	-
Initial weight, lb	540	542	545	542	6.18	0.69
Deads-in – live basis^a						
Final weight, lb	1358	1375	1364	1370	17.9	0.22
DMI, lb/d	23.5	23.8	24.0	23.7	0.29	0.42
ADG, lb/d	3.54	3.68	3.59	3.69	0.08	0.15
F:G	6.66	6.47	6.70	6.43	0.17	0.33
Deads-out – live basis						
Final weight, lb	1358	1375	1367	1374	17.58	0.22
DMI, lb/d	23.4	23.8	24.0	23.7	0.29	0.38
ADG, lb/d	3.76	3.83	3.79	3.83	0.06	0.19
F:G	6.23	6.21	6.33	6.18	0.13	0.42
Carcass adjusted basis^{b,c}						
Final weight, lb	1382	1406	1396	1403	14.52	0.11
ADG, lb/d	3.88	3.98	3.92	3.97	0.05	0.07
F:G	6.05	5.98	6.11	5.95	0.08	0.41
Health data, as a percentage of total						
Morbidity, %	10.15	10.28	13.98	9.72	1.89	0.28
Mortality, %	5.62	3.64	4.30	3.02	0.71	0.48

^a 4% pencil shrink was applied to final weight.

^b Feedyard performance reported on a deads-out basis.

^c Final weight adjusted using a common dressing percent of 61.0%.

Table 2. Carcass characteristics of steers implanted with different Revalor terminal implant strategies.

Item	Revalor-IS/ Revalor-200	Revalor-XS/ Revalor-IS	Revalor-XS/ Revalor-S	Revalor-XS/ Revalor-200	SEM	p-value
Pens	8	8	8	8	-	-
Number of carcasses	415	436	424	432	-	-
Hot carcass weight, lb	843	858	852	857	8.19	0.11
Dressing percent	61.99	62.30	62.21	62.25	0.54	0.50
USDA Quality Grade, as percentage of total						
Prime	0.96	1.38	1.18	1.62	0.48	0.86
Choice	56.12	54.83	48.43	51.02	4.43	0.14
Select	39.91	39.38	45.19	43.90	4.19	0.27
No Roll	1.60	2.65	2.85	2.28	0.74	0.56
Dark cutting carcasses	1.13	1.09	1.56	0.66	0.39	0.66
USDA Yield Grade, as percentage of total						
YG 1	8.52	8.84	10.51	10.93	1.99	0.52
YG 2	44.73	47.57	44.26	52.30	3.63	0.11
YG 3	38.26	36.59	37.59	30.73	3.69	0.13
YG 4+5	7.22	5.66	6.10	4.35	1.14	0.38

Summary

Live feedyard performance of steer calves implanted with Revalor-IS and re-implanted with Revalor-200 on day 120 was not different than that of calves implanted with Revalor-XS and re-implanted with Revalor-IS, Revalor-S, or Revalor-200 on day 140. Carcass adjusted final weight, ADG and hot carcass weight tended ($P \leq 0.11$) to favor Revalor-XS followed by re-implant steers. However, distribution of USDA Quality and Yield grades were not affected by implant program.

Conclusion

Steers fed for 217 days with Revalor-XS followed by the single dose Revalor re-implant programs tended to have heavier carcasses and better carcass adjusted feedyard performance than those implanted with Revalor-IS/Revalor-200.

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 product information, refer to product label.

Zilmax has a withdrawal period 3 days prior to slaughter. Not for use in animals intended for breeding. Do not allow horses or other equines access to feed containing zilpaterol. Do not use in veal calves. Not to be fed to cattle in excess of 90 mg zilpaterol/head/day in complete feed. If pen consumption of complete feed exceeds 26.5 lb/head/day (90% dry matter basis), zilpaterol should not be fed in complete feed. For complete safety information, refer to product label and Zilmax website.

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