

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

Trial protocol consisted of:

- Study conducted in Texas
- 1,961 head of cattle in 21 pens of approximately 93 head per pen
- Revalor[®]-S (trenbolone acetate and estradiol), Revalor-IS or Revalor-XS given on day 1 of trial
- Cattle initially implanted with Revalor-IS were re-implanted with Revalor-S on day 70
- Revalor-XS and single Revalor-S cattle were not removed from their pens on day 70
- No vaccine boosters were given

Table 1. Performance of steers implanted with Revalor-IS on day 1 followed by Revalor-S on day 70 compared to steers implanted with Revalor-XS or Revalor-S on day 1.

| Item | Revalor-XS | Revalor-IS/ Revalor-S | Revalor-S | p-value |
|---|-------------------|--------------------------|-------------------|---------|
| Carcass adjusted basis^{1,2} | | | | |
| Pens | 7 | 7 | 7 | |
| Steers | 654 | 657 | 650 | |
| Initial BW, lb | 696 | 696 | 693 | 0.64 |
| Final BW, lb | 1343 ^a | 1339 ^a | 1315 ^b | 0.03 |
| Total gain | 647 ^a | 643 ^a | 623 ^b | 0.05 |
| DMI, lb/d | 19.0 | 19.08 | 19.14 | 0.77 |
| ADG, lb/d | 3.72 | 3.70 | 3.58 | 0.06 |
| F:G | 5.11 ^a | 5.16 ^a | 5.34 ^b | 0.004 |
| Live basis³ | | | | |
| Final BW, lb | 1339 | 1337 | 1321 | 0.07 |
| Total gain | 643 | 641 | 628 | 0.14 |
| ADG, lb/d | 3.70 | 3.69 | 3.62 | 0.16 |
| F:G | 5.14 ^a | 5.17 ^a | 5.29 ^b | 0.02 |

View Chart

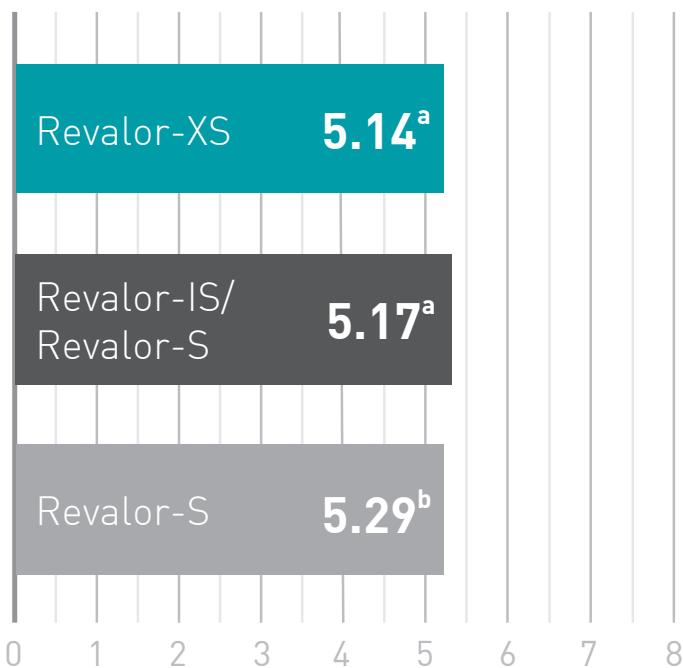
¹Final BW is shrunk 4%

²Overall carcass performance calculated using 62.62% dressing percentage for both treatments

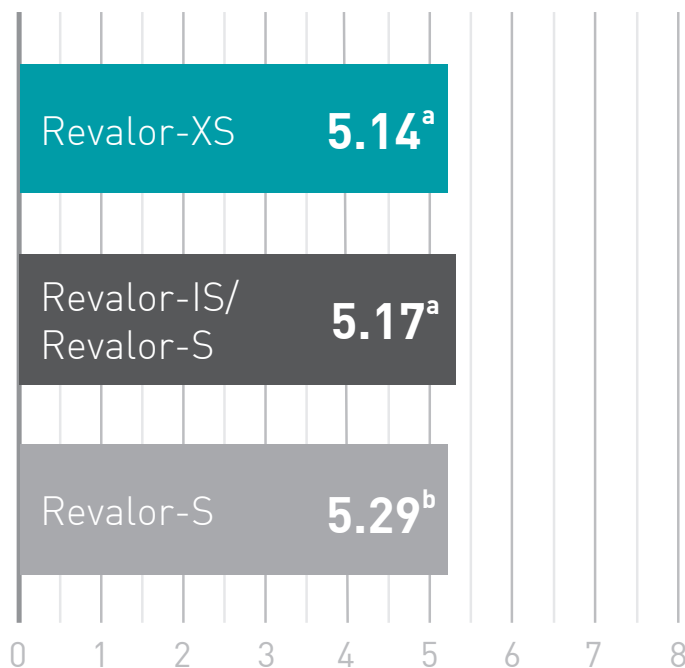
³Overall live performance calculated from live BW on a pen basis collected prior to study initiation and on day of slaughter

^{a,b}Treatments means are significantly different (P ≤0.05)

F:G live basis



F:G live basis



Data displayed on carcass adjusted basis

Table 2. Carcass characteristics of steers implanted with Revalor-IS on day 1 followed by Revalor-S on day 70 compared to steers implanted with Revalor-XS or Revalor-S on day 1.

| Item | Revalor-XS | Revalor-IS/ Revalor-S | Revalor-S | p-value |
|---|--------------------|--------------------------|--------------------|---------|
| Carcass characteristics | | | | |
| Dressing percent | 62.80 ^a | 62.71 ^a | 62.34 ^b | 0.05 |
| Hot carcass weight, lb | 841 ^a | 838 ^a | 824 ^b | 0.03 |
| Marbling score | 434 | 433 | 426 | 0.29 |
| Fat depth, in. | 0.57 | 0.58 | 0.57 | 0.71 |
| Ribeye area, sq. in. | 13.14 | 13.08 | 13.11 | 0.095 |
| Ribeye area, sq. in./cwt HCW | 1.59 | 1.57 | 1.58 | 0.6 |
| KPH fat, % | 1.90 | 1.89 | 1.94 | 0.11 |
| Average YG | 3.24 | 3.28 | 3.25 | 0.87 |
| USDA Quality Grade, as percentage of total | | | | |
| Prime | 0.0 | 0.2 | 0.3 | 0.16 |
| Choice | 42.0 | 40.2 | 46.7 | 0.72 |
| Select | 53.1 | 51.6 | 47.4 | 0.24 |
| Standard | 4.3 | 7.4 | 5.1 | 0.40 |
| Other | 0.6 | 0.7 | 0.5 | 0.64 |
| USDA Yield Grade, as percentage of total | | | | |
| YG 1 | 6.1 | 5.7 | 4.4 | 0.60 |
| YG 2 | 37.2 ^a | 42.5 ^a | 32.2 ^b | 0.04 |
| YG 3 | 42.5 | 43.0 | 50.0 | 0.09 |
| YG 4 | 10.7 | 8.5 | 11.4 | 0.20 |
| YG 5 | 0.8 | 0.3 | 1.9 | 0.02 |

^{a,b}Treatments means are significantly different (P ≤0.05)

Summary

This study showed no statistical difference for total gain, average daily gain, feed intake, and feed efficiency between a Revalor-XS treatment and Revalor-IS initial dose followed by a Revalor-S terminal dose at 70 days. Both Revalor-XS and the re-implant treatment showed statistical improvement in total weight gain and average daily gain for carcass adjusted performance over a single Revalor-S. Feed efficiency was improved on both a live and carcass adjusted basis with Revalor-XS and the re-implant treatment over the single Revalor-S treatment. There were no differences among the three treatment groups for USDA Quality Grade distributions or cooler measurements. Dressing percentage and carcass weight were equal between Revalor-XS and Revalor-IS/Revalor-S, but both were greater than the single Revalor-S. Revalor-XS had lower YG 2 compared to Revalor-IS/Revalor-S but both treatments were greater in YG 2 compared to a single Revalor-S. Revalor-XS and Revalor-IS/Revalor-S had a lower percentage of YG 3 and YG 5 compared to a single Revalor-S.

Conclusion

Revalor-XS was equal to a traditional implant/re-implant program of Revalor-IS/Revalor-S and both were better than a single Revalor-S in steers fed for 174 days.

A withdrawal period has not been established for Revalor products 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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