



210-Day Comparison of Revalor[®]-XS as an Initial or Terminal Implant

Trial protocol consisted of:

- Idaho trial location
- Single sourced weaned steer calves
- 1,007 Steers, 5 pens per treatment, approximately 100 head per pen
- Ralgro[®] (zeranol) day 0 followed by Revalor[®]-XS (trenbolone acetate and estradiol) on day 60
- Revalor-XS on day 0 followed by Revalor-200 on day 140
- 210 days on feed
- No vaccine boosters were given



Table 1. Performance of steers implanted with either Ralgro/Revalor-XS or Revalor-XS/Revalor-200.

| Item | Ralgro/ Revalor-XS | Revalor-XS/ Revalor-200 | <i>p</i> -value |
|--|-----------------------|----------------------------|-----------------|
| Pens | 5 | 5 | |
| Cattle, head-in | 504 | 503 | |
| Cattle, head-out | 502 | 500 | |
| Days on feed | 210 | 210 | |
| Initial shrunk weight, lb | 590 | 584 | 0.08 |
| DMI, lb/d | 20.36 | 19.85 | 0.06 |
| Deads-in – live basis | | | |
| Final shrunk weight | 1358 | 1341 | 0.31 |
| ADG, lb/d | 3.68 | 3.64 | 0.51 |
| F:G | 5.53 | 5.46 | 0.36 |
| Deads-out – live basis | | | |
| Final shrunk weight | 1364 | 1349 | 0.36 |
| ADG, lb/d | 3.71 | 3.66 | 0.29 |
| F:G | 5.49 | 5.43 | 0.46 |
| Carcass adjusted live performance | | | |
| Final weight, lb | 1363 | 1364 | 0.95 |
| ADG, lb/d | 3.68 | 3.73 | 0.22 |
| F:G | 5.53 | 5.36 | 0.53 |

Table 2. Morbidity, mortality of steers implanted with either Ralgro/Revalor-XS or Revalor-XS/Revalor-200.

| Item | Ralgro/ Revalor-XS | Revalor-XS/ Revalor-200 | <i>p</i> -value |
|--------------------|-----------------------|----------------------------|-----------------|
| Total morbidity, % | 0.4 | 0.6 | 0.64 |
| Mortality, % | 3.7 | 5.2 | 0.19 |
| Buller % | 0.57 | 1.14 | 0.68 |

Table 3. Carcass characteristics of steers implanted with either Ralgro/Revalor-XS or Revalor-XS/Revalor-200

| Item | Ralgro/ Revalor-XS | Revalor-XS/ Revalor-200 | p-value |
|---|-----------------------|----------------------------|---------|
| Hot carcass weight, lb | 868 | 870 | 0.78 |
| Dressing percent | 63.63 | 64.51 | 0.09 |
| USDA Quality Grade, as percentage of total | | | |
| Prime | 5.9 | 3.2 | 0.12 |
| Choice | 80.2 | 74.9 | 0.17 |
| Select | 12.9 | 20.4 | 0.03 |
| Standard | 0.19 | 0.0 | 0.37 |
| Other | 0.77 | 1.5 | 0.40 |
| USDA Yield Grade, as percentage of total | | | |
| YG 1 | 6.1 | 5.7 | 0.93 |
| YG 2 | 34.9 | 44.5 | 0.13 |
| YG 3 | 45.1 | 42.2 | 0.62 |
| YG 4 | 13.9 | 7.6 | 0.15 |

Summary

Ralgro/Revalor-XS and Revalor-XS/Revalor-200 implant programs did not differ for any measurement of growth performance, mortality, morbidity or bullers in steers fed for 210 days. All carcass traits were similar between treatments, except steers given Ralgro/Revalor-XS had fewer carcasses grading USDA Select. There was a tendency ($p= 0.15$) for steers implanted with Revalor-XS/Revalor-200 to have fewer USDA Yield Grade 4 carcasses.

Conclusion

Cattle given Revalor-XS/Revalor-200 had more carcasses grading USDA Select when compared to cattle given Ralgro/Revalor-XS. The more aggressive implant program did not produce any benefits in feedyard growth performance or hot carcass weight.

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

2 Giralda Farms • Madison, NJ 07940 • merck-animal-health-usa.com • 800-521-5767
Copyright © 2015 Intervet Inc., doing business as Merck Animal Health, a subsidiary of Merck & Co., Inc. All rights reserved. 4/15 BV-51327-3-210d

