

# Evaluation of Revalor<sup>®</sup>-XS vs. Synovex<sup>®</sup>-Choice Re-implant Program in Finishing Steers in Western Canada fed for 196 days.

## Trial protocol consisted of:

- Western Canada trial location
- 971 head of crossbred steers, 20 pens of about 50 head per pen
- Two implant treatments:
  - Revalor-XS on day 1
  - Synovex-Choice on day 1 and Synovex-Choice re-implanted on day 100
- Cattle were fed for 196 days
- Cattle were harvested in United States

## Summary

Steers implanted with Revalor-XS gained weight more ( $P<.05$ ) rapidly and had an improved ( $P=.06$ ) feed efficiency on a carcass-adjusted basis. Final weight of steers implanted with Revalor-XS was 14 lbs heavier on a live basis ( $P=.06$ ) and 24 lbs heavier on a carcass-adjusted basis ( $P=.007$ ) than steers receiving Synovex Choice/Synovex Choice. Hot carcass weight was increased by 13 lbs for steers receiving Revalor-XS ( $P=.006$ ). Ribeye area was greater for steers receiving Revalor-XS ( $P=.009$ ), but ribeye area/cwt of carcass weight did not differ between treatments. Marbling score, empty body fat and average yield grade were reduced ( $P<.03$ ) for steers receiving Revalor-XS. Fewer carcasses from steers receiving Revalor-XS graded low Choice ( $P=.07$ ), fewer were graded low Choice or greater ( $P=.03$ ), and more were graded Standard ( $P=.06$ ). Steers receiving Revalor-XS tended to produce fewer yield grade 3 carcasses ( $P=.09$ ). Cattle implanted with Revalor-XS were leaner at equal days on feed due to increased performance, resulting in a reduction in a lower marbling score when compared to Synovex Choice/Synovex Choice program at equal days on feed.

Table 1. Performance and health of steers implanted with either Synovex-Choice on day 1 followed by Synovex-Choice on day 100 compared to steers implanted with Revalor-XS.

Item	Revalor-XS	Synovex-Choice/ Synovex-Choice	SE	P-value
Pens	10	10		
Steers	487	484		
Days on feed	196	196		
Initial BW, lb	764	763	13	.43
<b>Live basis</b>				
Final BW, lb <sup>a</sup>	1429 <sup>d</sup>	1415 <sup>e</sup>	16	.06
DMI, lb/day	21.49	21.18	.23	.21
ADG, lb/day, deads in	3.20	3.18	.06	.79
ADG, lb/day, deads out	3.40 <sup>d</sup>	3.33 <sup>e</sup>	.03	.06
F:G, deads in	6.73	6.67	.12	.65
F:G, deads out	6.30 <sup>d</sup>	6.44 <sup>e</sup>	.06	.06
<b>Carcass-adjusted basis</b>				
Final weight, lb <sup>f</sup>	1432 <sup>b</sup>	1408 <sup>c</sup>	16	.007
Weight at 28.6% body fat <sup>g</sup>	1360 <sup>b</sup>	1336 <sup>c</sup>	12	.004
ADG, lb/day	3.41 <sup>b</sup>	3.29 <sup>c</sup>	.03	.009
F:G	6.30 <sup>d</sup>	6.44 <sup>e</sup>	.06	.06
<b>Morbidity and mortality</b>				
Morbidity, all causes, %	18.2	17.8	-	.87
Mortality, all causes, %	1.5	2.1	-	.60

<sup>a</sup> 4% pencil shrink was applied to full weight.

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

<sup>d, e</sup> Treatments means are significantly different ( $P<.10$ ).

<sup>f</sup> Final adjusted shrunk weight was calculated as pen hot carcass weight  $\div$  (overall dressing percent  $\div$  100).

<sup>g</sup> Calculated according to equations described by Guioy et al. (2001; *Journal of Animal Science* 79:1983).

# Evaluation of Revalor-XS® vs. Synovex-Choice Re-implant Program in Finishing Steers in Western Canada fed for 196 days.

Table 2. Carcass characteristics of steers implanted with either ~~Revalor-IS on day 1 followed by Revalor-200 on day 87~~ compared to steers implanted with Revalor-XS.

Item	Revalor-XS	Synovex-Choice/ Synovex-Choice	SE	P-value
Pens	10	10	-	-
Steers	484	487	-	-
Hot carcass weight, lb	892 <sup>a</sup>	879 <sup>b</sup>	10	.006
> 1000 lbs, %	2.3	1.6		.46
Dressing percent	62.42	62.15	.12	.12
REA, in <sup>2</sup>	14.76 <sup>a</sup>	14.34 <sup>b</sup>	.11	.009
REA/100 lb carcass weight	1.65	1.63	.01	.14
Marbling score <sup>e</sup>	390 <sup>a</sup>	400 <sup>b</sup>	2	.004
KPH, %	1.97	2.01	-	-
Rib fat, in	.54	.54	.01	.87
Average yield grade	2.92 <sup>a</sup>	3.00 <sup>b</sup>	.05	.03
Empty body fat, % <sup>f</sup>	29.6 <sup>a</sup>	29.8 <sup>b</sup>	.20	.03
<b>USDA Quality Grade, as a percentage of total</b>				
Prime and Choice	42.9 <sup>a</sup>	50.6 <sup>b</sup>	-	.03
Prime	.40	.60	-	.73
> Average Choice	1.9	3.1	-	.44
Low Choice	40.6 <sup>c</sup>	46.9 <sup>d</sup>	-	.07
Select	53.6 <sup>c</sup>	47.9 <sup>d</sup>	-	.10
Standard	3.5 <sup>c</sup>	1.5 <sup>d</sup>	-	.06
Dark cutter incidence	.40	1.2	-	.19
<b>USDA Yield Grade, as a percentage of total</b>				
YG 1	13.1	11.7	-	.50
YG 2	41.5	36.7	-	.14
YG 3	38.8 <sup>c</sup>	44.4 <sup>d</sup>	-	.09
YG 4 and 5	6.6	7.2	-	.72

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

<sup>c,d</sup> Treatments means are significantly different (P<.10).

<sup>e</sup> Slight = 300 to 390, Small = 400 to 490, etc.

<sup>f</sup> Calculated according to equations described by Guioy et al. (2001; *Journal of Animal Science* 79:1983).

## Conclusion

Implanting steer calves fed for 196 days with Revalor-XS improved growth performance, produced leaner carcasses and slightly reduced carcass quality compared to steer calves receiving Synovex Choice/Synovex Choice.

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

556 Morris Avenue • Summit, NJ 07901 • [intervetusa.com](http://intervetusa.com) • 800-521-5767 • 6/10 Part #BV-REV 40075

Revalor is property of Intervet International B.V. or affiliated companies or licensors and is protected by copyrights, trademark and other intellectual property laws. Synovex is a registered trademark of Wyeth/Fort Dodge Animal Health. Copyright © 2010 Intervet International B.V. All Rights Reserved