Evaluation of Revalor-XS® at different days in Calf-fed Holsteins

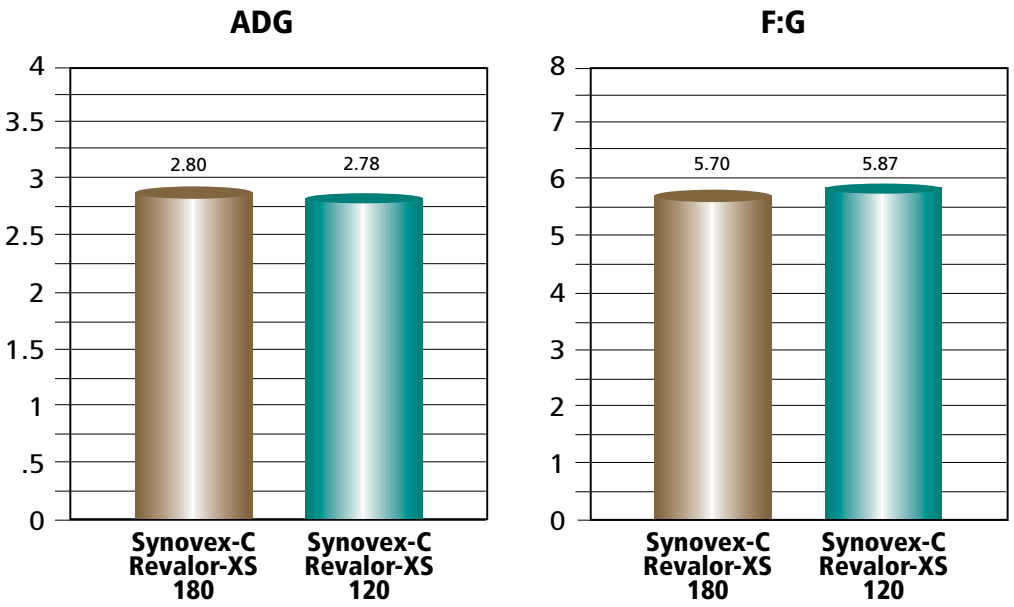
Trial protocol consisted of:

- Arizona trial location
- 1,827 head of Calf-fed Holstein steers, 18 pens of about 100 head per pen
- Three implant treatments:
    - Synovex-C day 1 followed by Revalor-XS on day 180
    - Synovex-C day 1 followed by Revalor-XS on day 120
    - No implant day 1 followed by Synovex-S on day 120 then Synovex-S at day 240
- Cattle were fed for 362 days
- No vaccine boosters were given

Table 1. Performance of Calf-fed Holstein steers.

	Treatment					Contrasts	
Initial Implant	None	Synovex-C	Synovex-C	SE[1]	*P*-values	Synovex-S vs. Revalor-XS	180 vs. 120
Reimplant	Synovex-S	Revalor-XS 180	Revalor-XS 120				
Reimplant	Synovex-S						
Pens	6	6	6				
Head	617	612	598				
Initial bw[a], lb	296	298	298	4.16	0.82	0.54	0.93
Final bw[a], lb	1299	1310	1306	5.98	0.28	0.13	0.60
ADG, lb/d	2.77	2.80	2.78	0.01	0.20	0.11	0.42
DMI, lb/d	15.79	15.94	16.33	0.081	<0.01	<0.01	<0.01
F:G	5.70	5.70	5.87	0.041	0.02	0.13	0.01

[a] 4% pencil shrink was applied to full weight



Data displayed on carcass adjusted basis.

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Table 2. Carcass characteristics of Calf-fed Holstein steers.

	Treatment					Contrasts	
Initial Implant	None	Synovex-C	Synovex-C	SE[1]	*P*-values	Synovex-S vs. Revalor-XS	180 vs. 120
Reimplant	Synovex-S	Revalor-XS 180	Revalor-XS 120				
Reimplant	Synovex-S						
Hot carcass wt, lb	787	791	784	4.17	0.31	0.94	0.13
Dressing Percent	60.62	60.39	59.98	0.002	0.05	0.05	0.10
Marbling Score[a]	419	397	392	5.66	0.01	<0.01	0.53
Fat thickness, in	0.29	0.26	0.27	0.003	<0.01	<0.01	<0.01
Ribeye Area, sq in	11.81	12.24	11.93	0.116	0.05	0.07	0.08
Ribeye Area/ HCW, sq in/100 lb	1.50	1.55	1.52	0.017	0.11	0.07	0.25
Yield grade	2.87	2.68	2.78	0.047	0.01	0.01	0.08
Choice or greater, %	61.37	48.31	48.84	-	<0.01	<0.01	0.85

[a] Slight = 300 to 390, Small = 400 to 490, etc.

Summary

Cattle implanted with Synovex-C followed by Revalor-XS at either 120 or 240 days on feed had greater (P<0.01) dry matter intake when compared to cattle receiving no implant initially followed by Synovex-S at 120 and 240 days on feed. There was a tendency for cattle implanted with Synovex-C followed by Revalor-XS at either 120 or 240 days on feed to have heavier (P=0.13) final weights and greater (P=0.11) ADG when compared to cattle receiving no implant initially followed by Synovex-S at 120 and 240 days on feed. Cattle implanted with Revalor-XS at 180 days on feed had better (P=0.01) feed conversion when compared to cattle implanted with Revalor-XS at 120 days on feed.

There were no differences among implant treatments for hot carcass weight. Cattle implanted with Synovex-C followed by Revalor-XS at either 120 or 240 days on feed had lower dressing percent, marbling score, fat thickness, yield grade and percentage of carcasses grading Choice when compared to cattle receiving no implant initially followed by Synovex-S at 120 and 240 days on feed.

Conclusion

Cattle implanted with Synovex-C followed by Revalor-XS at either 120 or 240 days had greater dry matter intake and tended to have better ADG, leaner carcasses resulting in lower percentage of carcasses grading Choice when compared to cattle receiving no implant initially followed by Synovex-S at 120 and 240 days on feed. Cattle implanted with Synovex-C followed by Revalor-XS at either 120 or 240 days had lower yield grade and less fat thickness indicating that these cattle were leaner and not at the same compositional endpoint as cattle receiving no implant initially followed by Synovex-S at 120 and 240 days on feed. This data would suggest that a terminal window for Revalor-XS in Calf-fed Holsteins should be 180 days.

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.

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