



## CALF X 18 BOV STR WC

Calf X 18 Bovatec Starter Whole Corn



### FEATURE

### BENEFIT

High Quality Protein	Plant protein sources are selected based on sufficient essential amino acids to meet the needs for maintenance and growth of young calves.
Cleaned Whole Shell Corn	Used to reduce fine particles for great and consistent calf starter intakes. The grain processing method does not influence calf performance.
Flavored Enhanced	Unique flavor application method is used to optimize feed consumption encouraging starter intake and performance.
Celmanax	<ul style="list-style-type: none"> <li>Help prepare the immune system ahead of challenges so animals can respond quickly</li> <li>Support optimal rumen fermentation and digestion</li> <li>Help animals cope with their environmental challenges</li> </ul>
NeoTec5g	<ul style="list-style-type: none"> <li>Blend of short, medium, and long chain fatty acids               <ul style="list-style-type: none"> <li>Promotes growth of intestinal villi, rumen papillae and gut barrier functions</li> </ul> </li> <li>Immune function – antimicrobial, antiviral, and reduces inflammation</li> <li>Enhanced vaccine responses</li> <li>Bone Growth</li> <li>Improved digestibility, absorption, and metabolism</li> </ul>
Availa Plus	<ul style="list-style-type: none"> <li>Improved absorption of key trace minerals               <ul style="list-style-type: none"> <li>Improved ADG and feed efficiency</li> <li>Increased body weight</li> <li>Increased wither and hip height</li> </ul> </li> </ul>
Bovatec	<ul style="list-style-type: none"> <li>Effectively controls coccidiosis</li> <li>Increases rate of weight gain and feed efficiency</li> </ul>
Selenium Yeast	<ul style="list-style-type: none"> <li>All added selenium coming from selenium yeast source</li> <li>Improved selenium absorption compared to inorganic sources</li> <li>Improved growth rate</li> <li>Improved function of immune cells</li> </ul>
ClariFly	<ul style="list-style-type: none"> <li>Interrupts the fly's life cycle rather than through direct toxicity</li> <li>Prevents development of house flies, stable flies, face flies and horn flies in the manure of treated calves</li> <li>Compatibility with Integrated Pest Management (IPM) practices</li> <li>Added through the months of <b>April through October</b></li> </ul>

### MEDICATED 926361

Dairy - Starter - Approx. 3 days to 3 months

For increased rate of weight gain in pasture cattle (slaughter, stocker, feeder cattle and dairy and beef replacement heifers). For control of coccidiosis caused by Eimeria bovis and Eimeria zuernii.

ACTIVE DRUG INGREDIENT  
Lasalocid.....60 g/ton

### GUARANTEED ANALYSIS

Crude Protein (min)	18.0%
Crude Fat (min)	3.6%
Crude Fiber (max)	2.7%
Acid Detergent Fiber (max)	3.9%
Calcium (Ca) (min)	0.9%
Calcium (Ca) (max)	1.4%
Phosphorus (P) (min)	0.4%
Zinc (Zn) (min)	87 ppm
Selenium (Se) (min)	0.3 ppm
Vitamin A (min)	6,520 IU/lb
Vitamin E (min)	80 IU/lb



NeoTec5g is the combination of NeoTec4 and the three nutritional factors "A, M, and D". The resulting product, called NeoTec5g, provides highly functional nutrients and improves performance of calves in the milk feeding, starter and grower phases of life. NeoTec5g has been a key ingredient in our calf milk replacers and is now a part of the Calf Xcellence starter and grower.



## CALF STARTERS: GRAIN SOURCE

Which method of processing is best for calves? Which promotes intake and rumen development? In the October 2004 issue of the Journal of Dairy Science, Lesmeister and Heinrichs reported on a study where four different methods of corn processing were compared in calf starters.

The calf starters used in the study were all texturized and contained a pellet (46.1%), oats (15.5%), molasses (5.1%) and 33.3% of the experimental processed corn. The corn was either whole corn (density 44.95#/ft<sup>3</sup>), dried rolled corn (47.45#/ft<sup>3</sup>), roasted-rolled (26.84#/ft<sup>3</sup>) or steam-flaked (23.72#/ft<sup>3</sup>). The roasted corn was processed at 267.8 F for 90 seconds, hot water conditioned for 15 min, then coarse rolled and cooled.

The results, as can be seen in Table 1, calves fed whole and dry rolled corn grew faster during the last two weeks of the study (wk 5-6). This increased growth was due to greater starter intake. Calves fed roasted or steam-flaked corn generally ate less starter during the last two weeks and therefore grew slower. Feed efficiency of calves fed whole or dry rolled corn were also greater compared to other calves.

TABLE 1		TREATMENT			
Item	Whole	Dry Rolled	Roasted Rolled	Steamed Flake	
BW gain lb	45.57	42.99	43.54	39.48	
Weaning	22.20	21.85	22.55	21.76	
5-6 weeks	23.37	21.14	20.99	17.73	
ADG lb/day					
1-4 weeks	0.780	0.789	0.780	0.760	
5-6 weeks	1.588	1.637	1.419	1.222	
CMR intake					
1-4 weeks	1.143	1.148	1.181	1.163	
Intake lb/day					
1-4 weeks	0.361	0.379	0.289	0.278	
5-6 weeks	2.760	2.982	2.529	2.465	
FE					
1-4 weeks	2.050	2.330	2.200	2.080	
5-6 weeks	1.890	1.880	2.070	2.330	



## NOW AVAILABLE IN OUR CALF STARTERS AND GROWERS

Factor	--	A	M,D	A,M,D	P value	
					M,D	A
<b>Milk Replacer and Starter</b>						
ADG, lb/d	1.11	1.21	1.2	1.31	0.05	0.03
Feed efficiency, gain/feed	0.435	0.449	0.460	0.468	0.08	0.09
Hip width change, in	1.7	1.8	1.8	2.0	0.05	0.06
<b>Grower</b>						
ADG, lb/d	2.11	2.18	2.22	2.33	0.01	0.05
Feed efficiency, gain/feed	0.320	0.326	0.348	0.330	0.05	0.46
Hip width change, in	1.9	2.0	2.1	2.1	0.03	0.73

- Improvement of 18% on ADG
- Increased glucose transporter activity and improved uptake of glucose
- Improves digestion of nutrients by the young calf
- Improved metabolism of ingested nutrients
- Responsible for increased growth and feed efficiency