



Technical Brief

Value of **Excell™** in Weaned Calf Rations for 21 Days After Weaning

Seventy-seven (77) Holstein bull calves were randomly assigned to two treatments using a randomized complete block design with a 3-week experimental period.

Treatments were: Control: Calf starter (CS), and Excell™ fed at 5 grams per head per day.

Results

Body frame measurements were improved ($P < 0.05$) in all areas over the control.

Calves fed Excell™ demonstrated greater ($P < 0.05$) body weight (BW; 81.3 kg for Control, 84.8 kg. for Excell™, and Average daily gain (ADG; 965.5, gr for Control and 1052.8 gr for Excell™.

Improved body weight and Average Daily Gain of **Excell™**

	Control	Excel
BW, kg		
Week 7, initial	72.3	74.7
Week 8	76.7	79.9
Week 9	85.6	87.7
Week 10, final	92.7	96.8
Study average	81.3 ^b	84.8 ^a
Study BW gain, kg	20.3	22.1
ADG, g/d		
Week 8	628.7	737.8
Week 9	967	1118.7
Week 10	1302.4	1299.7
Study ADG, 49-70 d	965.5 ^b	1052.8 ^a

Body Frame Measurements		
	Control	Excel
Hip height		
Initial, cm	90.5	90.8
Final, cm	94.8	95.2
Gain, cm	4.14	4.48
Hip width		
Initial, cm	24.4	24.6
Final, cm	26	26.9
Gain, cm	1.58 ^b	2.32 ^a
Withers height		
Initial, cm	85.2	86
Final, cm	89.7	90.7
Gain, cm	4.47	4.7
Heart girth		
Initial, cm	93.9	94.8
Final, cm	101.7 ^b	105.1 ^a
Gain, cm	7.88 ^b	10.36 ^a
Body length		
Initial, cm	62.8	62.4
Final, cm	65.9	67.1
Gain, cm	3.06	4.77



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Excell™ is a lactobacillus fermentation product containing prebiotic components and bioactive metabolites produced during the fermentation process. The unique profile of bioactive compounds support microbial populations in the digestive system of the rumen and intestine.

When the rumen microflora population is optimum, cattle are more efficient in their digestion and adsorption of essential nutrients for maximum gain and performance.

Benefits of a Healthy Rumen

- High population of rumen microflora
- Increased number of fiber digesting bacteria
- Maximum appetite and feed intake
- Maintains optimum feed efficiency and energy utilization
- Increased roughage digestibility and nutrient uptake
- Higher rumen pH for reduced acidosis and consistent feed intake



Support performance and health for the entire feeding period

When Excell™ is added to receiving, backgrounding and feedlot rations, cattle will develop a strong appetite, efficient rumen function and optimum digestion for maximum nutrient intake. These factors help support cattle performance and health for the entire feeding period.

The **Excell™** All-Natural product line includes:

Excell™ LQ... A concentrated free-flowing liquid product for use in liquid feeds, molasses and application in meal and pelleted feeds.

Recommended dosage: 5 – 10 grams of Excell™ LQ per head per day

Excell™ DF... A highly concentrated, dry flowable product for addition to mineral mixes, concentrates or complete meal or pelleted feeds.

Recommended dosage: 3 – 6 grams of Excell™ DF per head per day.

Contact your sales representative for more information on **Excell™**, and other Pacer Technology products for your operation.



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