



Arm & Hammer Animal Nutrition  
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AHfoodchain.com

## BIO-CHLOR™

**BIO-CHLOR™** is a patented feed supplement for prepartum transition cows providing a source of degradable protein and dietary anions. BIO-CHLOR is the only consistently formulated, palatable anion source that drives bacterial growth to support rumen function and optimize metabolizable protein (MP).

BIO-CHLOR	Units	Typical Analyses	
		As Fed Basis	100% Dry Matter Basis
Moisture	%		10.00
DM	%		90.00
CP	%DM	46.98*	52.20*
Net energy lactation	Mcal/kg	1.58	1.76
Net energy lactation	MJ/kg	6.62	7.36
ADF	%DM	4.95	5.50
NDF	%DM	16.47	18.30
Lignin	%DM	1.55	1.72
Lignin/NDF ratio	%NDF	9.40	9.39
Sugar	%DM	5.85	6.50
Starch	%DM	12.06	13.40
Mg	%DM	1.59	1.76
K	%DM	0.85	0.94
S	%DM	5.35	5.94
Na	%DM	0.52	0.58
Cl	%DM	6.24	6.93
DCAD (Na + K)-(Cl + S)	meq/100g	-468	-520

\*Includes not more than 31.3% equivalent crude protein from nonprotein nitrogen as soluble peptides, amino acids and nucleotides.

### Composition

1.1.1.4 Wheat Middlings; 12.2.8 By-products from the production of amino acids with *Corynebacterium glutamicum*; 11.2.6 Magnesium chloride; 4d8 Ammonium chloride; 11.8.1 Ammonium sulfate.

### DCAD

BIO-CHLOR provides a source of dietary anions with a DCAD of -468.00 (as fed) meq/100 grams. Research indicates that the optimum DCAD for transition rations is -8 to -12meq/100g ration dry matter.

### Bulk Density

464 to 512 kg/m<sup>3</sup>.

### Packaging

BIO-CHLOR is available in 22.7, 25 kg. bags and 1,000 kg totes.

### Storage

BIO-CHLOR should be stored in a cool, dry area. Avoid exposing product to moisture before use. For best results, use product within 24 months from manufacturing date.

**BIO-CHLOR™**  
**INFORMATION**

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## **Feeding Recommendations**

BIO-CHLOR™ should be fed as a primary protein source in prepartum cow diets. Though feeding rates will vary based on the dietary cation content of the diet, amounts of 0.36 to 1 kg per cow per day should provide sufficient anionic activity for DCAD balancing in most prepartum cow rations. For specific feeding recommendations, always consult with a nutrition advisor.

## **Nutrient Profiles**

To access the product's nutrient profile, please visit our website, [www.AHfoodchain.com](http://www.AHfoodchain.com).

**Visit [www.AHfoodchain.com](http://www.AHfoodchain.com) for more information about BIO-CHLOR.**

1 Lean IJ, Webster TK, Hoover W, Chalupa W, Sniffen CJ, Evans E, Block E, Rabiee AR. Effects of BIO-CHLOR and FERMENTEN on Microbial Protein Synthesis in Continuous Culture Fermenters. *J Dairy Sci* 2005;88:2524-2536. Patents 5,709,894/5,783,238/5,863,574 (Patents Pending) Australian Patents 714016/718808.

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