



DIRECT FED MICROBIAL BLEND FOR RUMINANTS

XP_{TM} DFM is a blend of yeast culture and a product* that contains live (viable) naturally occurring microorganisms and the following enzymes: protease which can hydrolyze proteins; alpha-amylase which can hydrolyze starch; cellulase which can break down cellulose; lipase which can hydrolyze triglycerides; and pectinase which can break down pectin.

Guaranteed Analysis:

Crude Protein, (Min)	12.0 %
Crude Fat, (Min)	3.0 %
Crude Fiber, (Max)	6.5 %

Microbial Activity (at time of manufacture):

Total Microbial Activity (Min) 1.6 Billion (1.6x10⁹) colony forming units/oz.
 Includes the following beneficial microorganisms: *Propionibacterium freudenreichii*, *Lactobacillus acidophilus*, *Lactobacillus casei*, *Enterococcus faecium*, *Lactobacillus lactis*, *Pediococcus cerevisiae*, *Bacillus subtilis*, *Bacillus licheniformis*, *Aspergillus oryzae*.

Enzyme Activity (at time of manufacture):

Protease (from *Aspergillus oryzae*)..... 9,687 ug amino acids hydrolyzed/min/oz.
Alpha-Amylase (from *Aspergillus oryzae*)..... 278 ug starch hydrolyzed/min/oz.
Cellulase (from *Trichoderma viride*, *Aspergillus niger*)..... 250 ug cellulose breakdown/min/oz.
Lipase (from *Aspergillus oryzae*)..... 11 ug triglycerides hydrolyzed /min/oz.
Pectinase (from *Aspergillus niger*)..... 7 ug pectin breakdown/min/oz.

Typical Analysis (as fed basis):

Vitamins:	per lb	per kg	Minerals:		
Thiamin	2.0 mg	4.4 mg	Calcium (Ca)	0.05	%
Riboflavin	2.0 mg	4.4 mg	Phosphorus (P)	0.60	%
Pantothenic Acid	3.0 mg	6.6 mg	Magnesium (Mg)	0.25	%
Choline	500.0 mg	1100.0 mg	Potassium (K)	0.90	%
Niacin	25.0 mg	55.0 mg	Sulfur (S)	0.15	%
Pyridoxine	3.0 mg	6.6 mg	Sodium (Na)	0.75	%
Folic Acid	2.0 mg	4.4 mg			
Biotin	0.1 mg	0.2 mg		per lb	per kg
Vitamin B ₁₂	2.0 µg	4.4 µg	Manganese (Mn)	25.0 mg	55.0 mg
Vitamin A	3000.0 IU	6600.0 IU	Iron (Fe)	60.0 mg	132.0 mg
Vitamin E	18.0 IU	39.6 IU	Copper (Cu)	4.5 mg	9.9 mg
			Zinc (Zn)	30.0 mg	66.0 mg
			Cobalt (Co)	0.91 mg	2.0 mg
			Selenium (Se)	0.09 mg	0.2 mg



Product Profile 08/06

Amino Acids:

Lysine	0.55	%
Methionine	0.25	%
Cystine	0.15	%
Tryptophan	0.15	%
Threonine	0.45	%
Isoleucine	0.40	%
Leucine	1.25	%
Phenylalanine	0.50	%
Arginine	0.75	%
Histidine	0.40	%
Valine	0.45	%

Energy:

	<u>per lb</u>		<u>per kg</u>	
Ruminant – TDN			76%	
Nem	0.82	Mcal	1.81	Mcal
Neg	0.55	Mcal	1.21	Mcal
Nel	0.79	Mcal	1.74	Mcal

Miscellaneous:

Ash	5.0%
Nitrogen Free Extract	65.0%
Bulk Density	30-36 lb/ft ³

Composition:

Diamond V XP™ Yeast Culture, sodium bicarbonate, dried *Aspergillus oryzae* fermentation product, dried *Aspergillus oryzae* fermentation extract, dried *Propionibacterium freudenreichii* fermentation product, dried *Lactobacillus acidophilus* fermentation product, dried *Lactobacillus casei* fermentation product, dried *Enterococcus faecium* fermentation product, dried *Lactobacillus lactis* fermentation product, dried *Pediococcus cerevisiae* fermentation product, dried *Aspergillus niger* fermentation extract, dried *Trichoderma viride* fermentation extract, dried *Bacillus subtilis* fermentation product, dried *Bacillus licheniformis* fermentation product and sodium aluminosilicate.

Feeding directions:

Top dress or mix in grain rations or total mixed ration at the following rates:

Dairy Cattle: Feed 2 to 4 ounces per head per day.

Beef Cattle: Feed 1 to 2 ounces per head per day.

Sheep, Goats: Feed 0.5 to 1 ounce per head per day.

Packaging:

50 lbs. bag

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