

**GUARANTEED ANALYSIS**

Crude Protein	14.0 % Min.
Crude Fat	1.6 % Min.
Crude Fiber	14.0 % Max.
ADF	18.0 % Max.

The additive is a dried fermentation product from select strains of a non-pathogenic fungus *Aspergillus oryzae*, obtained by a deep culture, multi-stage fermentation method. The ferment as secreted by *A. oryzae* during the multi-stage fermentation process, is sprayed on a support of food-grade wheat bran, dried and ground to produce the feed additive AMAFERM®.

INGREDIENTS

Dried *Aspergillus oryzae* Fermentation Product, Wheat Bran.

PROPERTIES OF THE PRODUCT

Light brown in color with loose meal consistency and no odor. The product AMAFERM® retains the physical characteristics of the food-grade wheat-bran on which the *Aspergillus oryzae* ferment is dried. The wheat bran used has a mean particle size of 1.5mm with 90% of the particles between 0.25mm and 2.0mm (range).

PRINCIPAL EFFECT

The effect is primarily the enhanced growth and development of digestive tract microorganisms responsible for the degradation of fibrous feedstuffs.

CONDITIONS FOR USE

Mix with feed so daily intake provides proper inclusion rate of AMAFERM®. May be pelleted.

STORAGE AND HANDLING

AMAFERM® is packaged in the dried state in a 3-ply, multi-wall bag, with a high-density plastic film moisture barrier and considered stable. The bags are sealed utilizing the pinch-bottom seal closure feature which helps to prevent insect and vermin infestation. The product should be protected from moisture.

MOISTURE

The dry product contains less than 10% of moisture by weight.

PARTICLE SIZE

Particle size range from 0.25mm and 2.0mm, particle shape is amorphous cubes.

DENSITY

0.425 +/- kilograms per liter or 26.5 +/- pounds per cubic foot with a standard error, SE, of 1.7 at P<0.05.

SAFETY

No means or methods of protection are necessary during the manufacture and use of the product. The product is considered by the United States Food and Drug Administration as a GRAS (Generally Recognized As Safe) substance.

PURITY

AMAFERM® is free from or below FDA advisory levels for humans of mycotoxins Aflatoxin, T2-toxin, Ochratoxin, Zearalenone, and Vomitoxin.



RECOMMENDED USE DIRECTIONS: BY SPECIE, PER DAY

DAIRY

Dry cows (Far off)	3-5 grams
Dry cows (Up Close)	10 grams
Transition cows	10 grams
Lactating cows	3-10 grams
Replacement heifers	2-3 grams
Calves under 400 lbs	1-2 grams

BEEF

Cows (Lactating/Non-lactating)	2-5 grams
Bull Development	2-5 grams
Replacement heifers	2-3 grams
Grower/Feedlot	2-3 grams
Calves under 400 lbs	1-2 grams

SHEEP/GOATS

Adults	1-3 grams
Feedlot	1 gram
Lambs/kids	0.5-1 gram

HORSES

Maintenance	5-10 grams
Performance	10 grams
Breeding Horses (Mares & Stallions)	10 grams
Stressed (Illness, Surgery, Relocation, etc)	10 grams
Foals	2-4 grams

SWINE

Sows (Lactating/Non-lactating)	6-10 grams
Growers	2 grams
Finishers	3-5 grams
Nursery	1 gram

POULTRY

Broilers and Layers	0.4 lbs/ton or 0.02% of Complete Feed
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CAT/DOG

All Life Stages	1mg/lb of Body Weight
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BIOZYME INCORPORATED

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TYPICAL ANALYSIS – AS FED BASIS				
PROXIMATE ANALYSIS			MINERALS	
Crude Protein	17.0%		Calcium (Ca)	0.2%
Crude Fat	2.4%		Chloride (Cl)	NT
Crude Fiber	10.0%		Magnesium (Mg)	0.6%
Ash	7.0%		Phosphorus (P)	1.6%
Moisture	7.0%		Potassium (K)	1.7%
ADF	12.0%		Sodium (Na)	0.1%
CARBOHYDRATES			Sulfur (S)	0.1%
Starch	5.2%		per lb per kg	
Fructose	1 gram		Colbalt (Co)	ND
Glucose	0.5 - 1 gram		Copper (Cu)	6.35 mg 14.0 mg
Lactose	ND		Iron (Fe)	63.5 mg 140.0 mg
Maltose	1.4%		Manganese (Mn)	54.43 mg 120.0 mg
Sucrose	0.1%		Selenium (Se)	ND ND
ADF	28.32%		Zinc (Zn)	38.55 mg 85.0 mg
NDF	39.95%		ENERGY per lb per kg	
OTHER			TDN	68%
Mono-unsaturated Fats	0.51%		NEm	0.73 Mcal 1.61 Mcal
Poly-unsaturated Fats	1.11%		NEg	0.49 Mcal 1.08 Mcal
Saturated Fats	0.49%		NEI	0.71 Mcal 1.57 Mcal
Trans Fats	ND		DE	1.36 Mcal 3.0 Mcal
Xanthophyll	0.73 mg/lb	1.61 mg/kg	ME	1.25 Mcal 2.75 Mcal
Linoleic Acid	0.95%		per lb per kg	
BULK DENSITY		22 - 27 lbs/ft ³	Biotin	0.11 mg 0.25 mg/kg
		352 – 432 kg/m ³	Choline	ND ND
SHELF LIFE			Folic Acid	0.07 mg 0.16 mg
Best if Used By	24 months from date of manufacture.		Niacin	9.98 mg 22.0 mg
PACKAGING		Bags – 50 lb & 25 kg	Pantothenic Acid	7.7 mg 17.0 mg
			Pyridoxine	.23 mg 0.5 mg
			Riboflavin	.07 mg 0.16 mg
			Thiamin	2.27 mg 5.0 mg
			Vitamin A	ND ND
			Beta Carotene	ND ND
			Vitamin B12	ND ND
			Vitamin E	NT NT
			ND = Not Determined NT = Not Tested	

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