

AMAFERM® ECO 2X

Fact and ID Sheet

Manufactured by

Biozyme Incorporated
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Identity of product: Commercial name: Amaferm®

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.

Guaranteed Analysis:	Crude Protein	16.0 % Min.
	Crude Fat	1.6 % Min.
	Crude Fiber	14.0 % Max.
	Ash	8.0 % Max.

Ingredients: Dried *Aspergillus oryzae* Fermentation Product, Organic 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 feed stuffs.

Conditions for use: Mix with feed so daily intake provides proper inclusion rate of Amaferm. May be pelleted.

Stability: 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.

Appearance and odor: Slight yellow/red appearance with a pleasant smell.

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

Particle Size: Particle size range from 2mm-0.25mm, particle shape is amorphous cubes.

Density: In terms of physical density, Amaferm is ground to 0.425 kg/m³ +/- .024 kilograms per liter (or 26.5 +/- 1.5 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.

Dosage Amaferm ECO 2X

Specie	Units/Day
<p><u>Dairy:</u></p> <ul style="list-style-type: none"> • Transition cows • Cows (Lactating/Non-lactating) • Replacement heifers • Calves under 400 lbs 	<ul style="list-style-type: none"> • 5-7.5 grams • 2.5-5 grams • 1-1.5 grams • 0.5-1 gram
<p><u>Beef:</u></p> <ul style="list-style-type: none"> • Cows (Lactating/Non-lactating) • Bull Development • Replacement heifers • Grower/Feedlot • Calves under 400 lbs 	<ul style="list-style-type: none"> • 1-2.5 grams • 1-2.5 grams • 1-1.5 grams • 1-1.5 grams • 0.5-1 gram
<p><u>Sheep/Goats:</u></p> <ul style="list-style-type: none"> • Adults • Feedlot • Lambs/kids 	<ul style="list-style-type: none"> • 0.5-1.5 grams • 0.5 gram • 0.25-0.5 gram
<p><u>Horses:</u></p> <ul style="list-style-type: none"> • Maintenance • Performance • Breeding Horses (Mares & Stallions) • Stressed (Illness, Surgery, Relocation, etc) • Foals 	<ul style="list-style-type: none"> • 2.5-5 grams • 5 grams • 5 grams • 5 grams • 1-2 grams
<p><u>Swine:</u></p> <ul style="list-style-type: none"> • Sows (Lactating/Non-lactating) • Grow/Finish • Starters 	<ul style="list-style-type: none"> • 1 gram • 0.5-0.75 gram • 0.375-0.5 gram
<p><u>Poultry:</u></p> <ul style="list-style-type: none"> • Broilers and Layers 	<ul style="list-style-type: none"> • 0.2 lbs/ton or 0.01% of CF
<p><u>Dog/Cat:</u></p> <ul style="list-style-type: none"> • All life stages 	<ul style="list-style-type: none"> • 0.5 mg/lb of BW
<p>CF = Complete Feed BW = Body Weight</p>	

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