



BIOPOWDER M^{MR}

BIOPOWDER M^{MR} is a natural feed additive for livestock and poultry used to control odors, ammonia and other gas emissions, which can be detrimental to livestock performance.

BIOPOWDER M^{MR} is made with 100% natural *Yucca schidigera* from Baja California, Mexico and mineral carriers. It is a special product with low dust emission.

BIOPOWDER M^{MR} is manufactured with the highest quality standards and has all the saponins and glycocomponents of the real *Yucca schidigera* plant.

BIOPOWDER M^{MR} is produced by Agroindustrias El Alamo, the only manufacturer of *Yucca schidigera* extract, that harvests the plant in its own ranches and those of its associates farms. This assures the highest quality products offered on the international market.

BIOPOWDER M^{MR} SPECIFICATIONS

Contents	<i>Yucca schidigera</i> powder ⁽¹⁾
Appearance	A light tan, free flowing powder. As the product is natural, its appearance may vary slightly from batch to batch.
Toxicity	Nontoxic
Shelf life	Min. 12 months at room temperature
Heat stability	Excellent
pH stability	Excellent

■ AVERAGE APPROXIMATE ANALYSIS⁽²⁾

Moisture	34.7%
Crude protein	0.7%
Crude fat	0.4%
Crude fiber	0.2%
Ash	33.9%
Carbohydrates (Including <i>Yucca</i> solids and saponins)	30.1%

(1) *Yucca schidigera* is approved by the U.S. Food and Drug Administration as a natural food additive under Title 21 CFR 172.510

(2) Due to the natural composition of the extract, its content may vary throughout the year. Therefore, this is an average approximate analysis.

BIOPOWDER M^{MR} APPLICATIONS

■ IMPROVEMENT OF ANIMAL FEED

Research in several universities, in addition to many successful trials and studies that have been conducted on farms worldwide, show that the use of *Yucca schidigera* extract in animal feed improves the health conditions of turkeys, broilers, layers, swine, cattle, horses and pets by reducing the emission of odor and ammonia.

Free flowing. BIOPOWDER M^{MR} is free flowing, thereby enabling feed manufacturers to fully utilize computer based automatic dosage systems.

Synergy. Research indicates that there is an additional benefit from inclusion of *Yucca schidigera* extract in feeds, specifically, the animal's weight gain and feed utilization.

Gas reduction. BIOPOWDER M^{MR} reduces ammonia and other irritant gases in confined buildings, this creates healthier living conditions, including lower stress levels, helping to improve feed utilization and growth rates.

Odor reduction. BIOPOWDER M^{MR} reduces waste odor, creating a better environment for animals, employees, visitors and neighbors.

Sludge. BIOPOWDER M^{MR} improves the handling characteristics of sludge, making it easier to pump and/or spread.

Economical. BIOPOWDER M^{MR} is one of the most cost-effective products to add for improved performance, allowing producers to maximize returns.

USAGE LEVELS IN ANIMAL FEED

	grams per Ton
POULTRY	
Broilers	100
Turkeys	100
Layers	100
SWINE	
Nursing sows	120
Starters	120
Growers	100
Finishers	60
CATTLE	
Beef	400-800 mg/hd/day
Dairy	800 mg/hd/day
PETS	
Most	250