



BIOLIQUID 3000^{MR}

Technical Data Sheet

BIOLIQUID 3000^{MR}

BIOLIQUID 3000^{MR} is a concentrated extract from the *Yucca schidigera* plant found in the desert of Baja California, México. This 100% natural extract is obtained by cold press processing, and used to reduce and control odor, ammonia and other gas emissions of livestock and poultry.

BIOLIQUID 3000^{MR} can be added directly to the animal's drinking water in diluted form. Because of the very small size of the particles in the liquid it is optimal for use in automatic drinking systems.

When applied to manure holding ponds and lagoons, BIOLIQUID 3000^{MR} reduces the level of free ammonia by binding the ammonia, and therefore, eliminating the offensive odors.

BIOLIQUID 3000^{MR} is guaranteed to be manufactured with the highest quality standards and with all the saponins and glyco-components of the *Yucca schidigera* plant.

BIOLIQUID 3000^{MR} SPECIFICATIONS

Contents	<i>Yucca schidigera</i> concentrated extract ⁽¹⁾
Toxicity	Nontoxic
Shelf life	Min. 24 months at room temperature
Heat stability	Excellent
Concentration	30 Brix
pH	4.0±0.2
Solubility	99.6%
Density	1.1
Packaging	3.8, 19 or 208 liters plastic drums

■ AVERAGE APPROXIMATE ANALYSIS ⁽²⁾

Moisture	65.25%
Crude protein	0.80%
Crude fat	0.60%
Fiber	0.30%
Ash	1.50%
Carbohydrates (including Yucca saponins)	27.45%

■ PRESERVATIVES

Sodium benzoate	0.1%
Propylene glycol	4.0%

(1) *Yucca schidigera* is approved by the U.S. Food and Drug Administration as a natural food adjuvant 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.

BIOLIQUID 3000^{MR} APPLICATIONS

■ Animal drinking water:

BIOLIQUID 3000^{MR} added to drinking water of the poultry and swine will reduce the level of ammonia in the animal's digestive track and excretes, thereby reducing the level of ammonia in the poultry or swine houses.

■ Barns, stalls or pens:

BIOLIQUID 3000^{MR} can be use as a detergent or odor eliminator and to reduce the levels of ammonia and others noxious gases, added to the water for normal cleaning of walls, floors, pens, cages and farrowing crates of the barns, stalls or pens of hogs, cattle and horses, will improve the environment and will keep its benefits in the waste water.

■ Manure holding ponds and lagoons:

Using BIOLIQUID 3000^{MR} in the manure holding ponds and lagoons will reduce ammonia, hydrogen sulfide and other noxious gases, and will liquefy the solids sludge. The reduction of free ammonia will accelerate the bacterial activity in ponds and lagoons, because ammonia is toxic to these bacteria.

■ Broiler beds:

BIOLIQUID 3000^{MR} sprayed over the broiler beds will reduce the ammonia and other toxic gases, as well as accelerate the organic matter degradation of the chicken litter.

SUGGESTED USAGE LEVELS

■ Slurry pits

For each cubic meter of wastewater in the pit, apply 40 mL of BIOLIQUID 3000^{MR} once a week for the first four weeks or until the desired ammonia level is achieved, Then reduce to 15 mL of product once a week.

■ Barns, stalls or pens

Add 10 to 15 mL of BIOLIQUID 3000^{MR} per 1000 liters of water used to wash floors or walls of barns, stalls or pens. Use as a detergent for normal cleaning of walls, floors or cages.

■ Manure holding ponds and lagoons

Spray 180 mL of BIOLIQUID 3000^{MR} per 100 m² over the lagoon's surface once a week until crust is dissolved and desired odor level control is achieved. Simultaneously apply 4 mL per 1000 liters to the lagoon's water influent.

■ Broiler beds

Spray 80 mL of BIOLIQUID 3000^{MR} per 100 m² twice a week over the litter until odor and toxic emanations are reduced.

■ Recommendations

The use of BIOLIQUID 3000^{MR} can be stopped when desired ammonia or odor level is achieved, but it is recommended that BIOPOWDER M^{MR} be added in the animal's feed on regular basis to reduce noxious ammonia level.

To obtain an even product distribution, it is recommended to dilute BIOLIQUID 3000^{MR} in water at a ratio of 10 to 1.

■ Application in animal drinking water

Broilers, turkeys, layers 50 mL per 1000 liters of water
nursing sows, piglets, bovine

Grower or finisher pigs 40 mL per 1000 liters of water

Pets 1mL per 20 liters of water

