

## More Than an Anti-Mycotoxin Additive!

### M-Mobilize:

- Adheres and speeds excretion of mycotoxins and endotoxins
- Adheres to and protect from multiple pathogens
- Stimulates innate immune system
- Produces wide array of antimicrobial, enzymatic and immunomodulatory metabolites
- Promotes gut wall integrity
- Promotes versatile and healthy microbiota

#### M-MOBILIZE

Product 1170

For further information contact:

#### GUARANTEED ANALYSIS

Total Mycotoxin Activity (ppm) ..... 2.247 x 10<sup>7</sup> CFU/g  
Molecular Weight

#### INGREDIENTS

Hydrolyzed Soybean, Calcium-Amino Acids, Calcium Carbonate,  
Dried Yeast, Dried Bacterial Spores, Fructooligosaccharide, Lactic Acid

#### RECOMMENDED MIXING DIRECTIONS

Use at a rate of 2.5 pounds per 100 tons of complete feed

#### STORAGE AND HANDLING

Store in a cool, dry place. Avoid direct sunlight.  
Avoid contact with open flame or other heat sources.

M-Mobilize



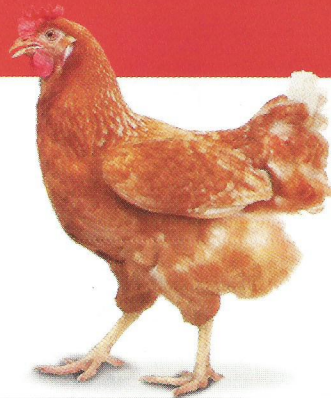
M-Mobilize™



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**M-Mobilize™** is an effective and reliable solution for treating mycotoxins in animal feeds. Patented technologies with proprietary components are applied in this product. They synergistically work together to benefit animals in multiple areas.

## Benefits of M-Mobilize

### Mycotoxins Impair Health and Limit Performance

- 1 ppm Aflatoxin B lose 11% ADFI and BWG in broilers
- 1 ppm Vomitoxin reduces 7% ADG in pigs
- 1 ppm fumonisin lose 8% ADG in pigs
- Decrease feed intake by 15-35%
- Compromise gut health
- Impaired immunity

### IMMUNE ENHANCEMENT

M-Mobilize contains selective oligosaccharides that will adhere to type 1 fimbriated pathogens (*E.coli*, *Salmonella*, *Campylobacter*). These functional prebiotics are immune stimulant.

### GUT HEALTH

M-Mobilize reduces gut inflammation, synergistically promoting and assisting in the gut recovery from mycotoxin exposure. The proprietary *Bacillus subtilis* strains in the product also inhibits pathogen growth.

### GUT INTEGRITY

M-Mobilize ameliorates the impact of toxins and promotes gut integrity. They could restore damaged epithelial cells and improve intestinal villi integrity.

## Anti-Mycotoxin

### NOVEL INORGANIC & ORGANIC BINDING CAPACITY:

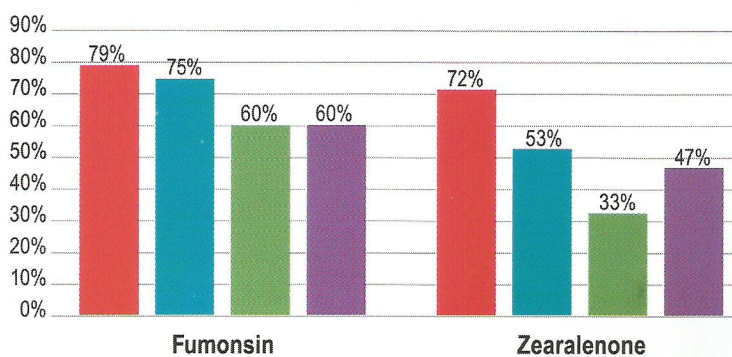
Patent technology is applied in the M-Mobilize binding component via specially selected allumino silicate with thermal activation and ionic exchange process.

The technology allows lower inclusion rate with superior toxin binding capability.

### IN VITRO MYCOTOXIN ADSORPTION EFFICIENCY VERSUS COMPETITIVE PRODUCTS

Superior toxin binding capability beyond aflatoxins.

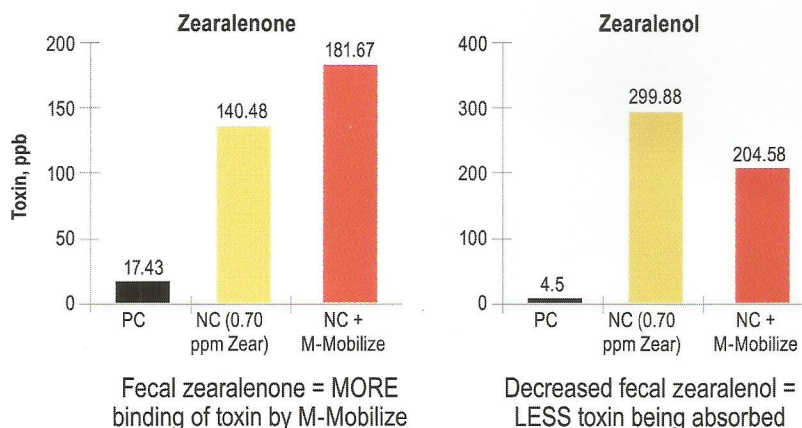
- M-Mobilize
- Competitor MS-A
- Competitor MF-B
- Competitor TF-K



United Animal Health Trial: 15-A022

### IN VIVO TOXIN BINDING AND EXCRETION

Less zearalenone was absorbed when M-Mobilize was fed.



United Animal Health Trial: 12-F044

## Sound Science and Proven in the Industry

M-Mobilize has been validated in animal model testing and proven through industry experience. This technology will address the risk of, and help manage your exposure to mycotoxins by applying a predictable, proactive, and practical approach.



### M-Mobilize for Poultry

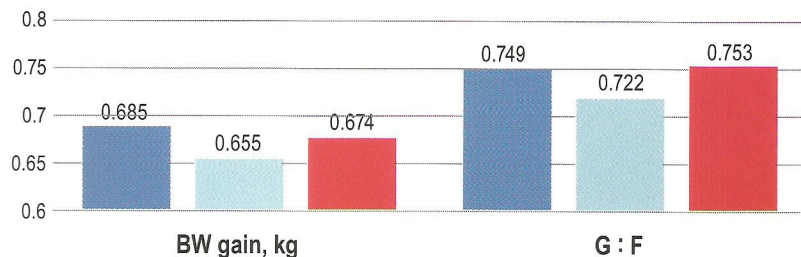
#### POULTRY TRIAL 1

61.3% improvement in body weight gain.

- Positive Control
- Negative Control, 1 ppm AFB1
- Negative Control with Treatment

1. X. Chen, et al., 2014 Poultry Science. 93:1-11.
2. Modified aluminosilicate is a key component of M-Mobilize.

Broiler Chicks (21 D) Performance as Affected by 1 ppm AFB<sup>1</sup> and Modified Aluminosilicate<sup>2</sup> Treatment<sup>2</sup>



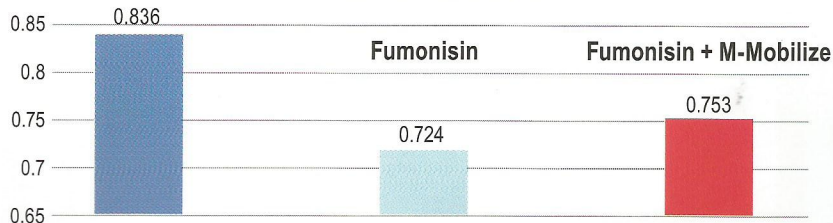
#### POULTRY TRIAL 2

26% improvement in body weight gain.

- Control
- Fumonisin
- Fumonisin + M-Mobilize

United Animal Health Trial: 14-P076

Body Weight Gain (kg) of Broiler Chicks as Affected by 51 ppm Fumonisin and M-Mobilize



### M-Mobilize for Swine

#### SWINE TRIAL 1

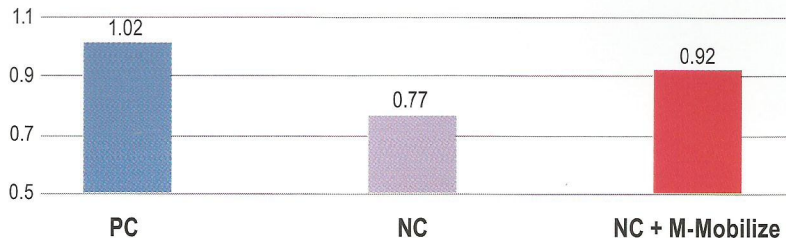
Young gilts recover 2.16 kg more body weight in 16 days with M-Mobilize.

- PC
- NC
- NC + M-Mobilize

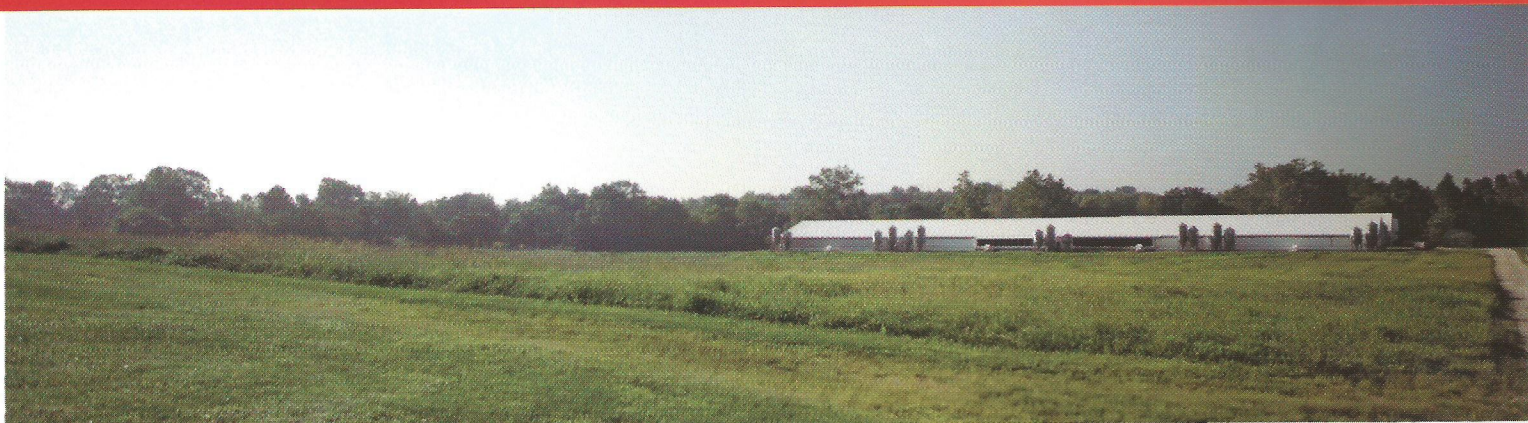


United Animal Health Trial: 12-F044

Young Gilts Recover 64% in Weight Gain with M-Mobilize<sup>1,2</sup>



1. Toxins (4 ppm Vomitoxin and 0.70 ppm Zearalenone) caused 24% depression in ADG as with negative control (NC).
2. M-Mobilize recovers 64% in gain as relative to NC,  $P < 0.05$ .



## Product Information:

**Ingredients:** Hydrated Sodium Calcium Aluminosilicate, Calcium Carbonate, Dried Yeast, Dried Bacillus subtilis Fermentation Product.

**Inclusion rate:** Mix at the rate of 0.5 kg to 2.0 kg of M-Mobilize™ per metric ton of complete feed

**Package weight:** 25 kg



## About United Animal Health, Inc.

United Animal Health, Inc. has provided research-based animal nutrition solutions and farm management services for over 60 years. United Animal Health, Inc.'s established nutrition business is recognized and proven by its wide range of significant industry connections. United Animal Health, Inc.'s subsidiaries, including Microbial Discovery Group and Animal Health Division, further expand the company's reaches with multiple disciplines of business. Current operations include traditional nutrition, enzyme development and commercialization, microbial solutions, and health management.

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