# NutriRhize

MBA

High-efficiency potassium

Plant Nutrition
High Efficiency Granular

## Timac Agro Technology

Our patented formulas are derived from nearly 60 years of research and development in plant extract technology. Through precise methods, our extracts are evaluated for their specific effects at each stage of crop development. By enriching selected extracts with macro- and micronutrients, we create bionutritional formulas that meet the ever-changing needs of the crop. Better yield and quality benefit our customers and are the result of improved emergence, vegetative growth, and reproductive performance.

As a company, our mission is to improve agriculture by focusing on four major areas of service to growers:

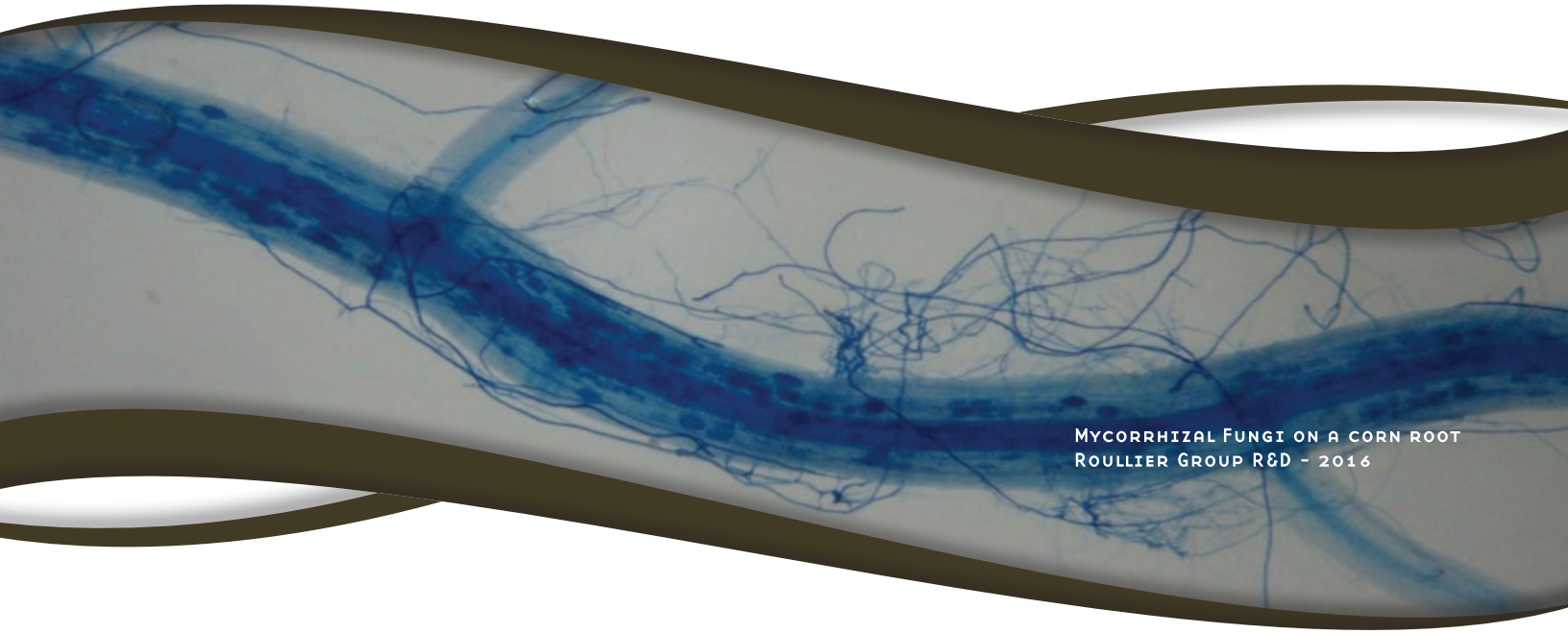
- Relentless innovation
- Flexible manufacturing
- Optimized applications
- Partners in the field

## Features

NutriRhize is a potassium-rich composite fertilizer with our patented MBA Complex that is proven to stimulate native mycorrhizal fungi and other soil microbes. Mycorrhizal fungi are proven to improve nutrient availability and uptake, especially for non-mobile nutrients like phosphorus and zinc. NutriRhize can be used as the sole potassium source or blended with other granular fertilizers.

## Key Benefits

- Composite granular with potassium, calcium, magnesium, and sulfur. The precise ratios of these nutrients provide more efficient and balanced potassium fertilizer.
- Formulated with our patented Mycorrhizae Bio-Activator (MBA) Complex proven to stimulate native mycorrhizae and N-fixing bacteria.



Mycorrhizal Fungi on a corn root
Roullier Group R&D - 2016

## Application

Research has shown economical blending of NutriRhize up to 50% of the potassium recommendation.

Please refer to soil tests and the advice of your Timac Agro sales representative for specific recommendations.

## Packaging Size

- 50 lb bag
- 1,333 lb super sack

Timac AGRO USA

P.O. Box 888, Reading, PA 19607
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MBA
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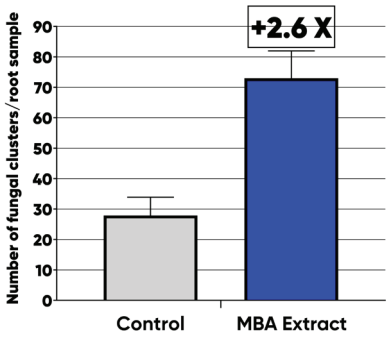
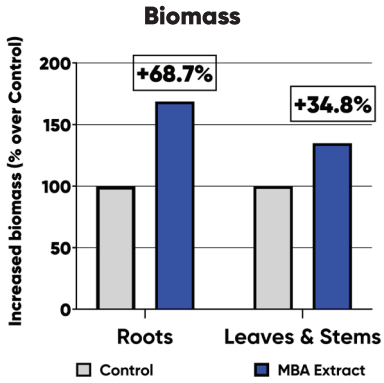
## Effect of MBA Extract on mycorrhization and biomass in corn plants

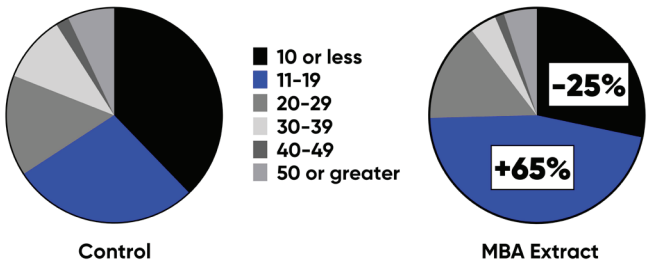
### Number of clusters




### Biomass




### Number of spores within each cluster




Canopeo image of R1 soybeans showing greater leaf biomass- NDSU, 2016

**Control (0-0-60)** **NutriRhize**

**The patented MBA Complex was shown to increase the total number and intensity of mycorrhizal clusters on roots of potted corn plants cultivated for 6 weeks. Root and above-ground biomass was also increased. Data presented are the average of 5 plants from each treatment.** Source: MycAgro Labs, Rennes, FR, 2015.

## Effect of NutriRhize on yield in corn, soybeans, and sweet potato - U.S. university trials 2016

| University | Crop | Potassium Rate | Application Method | Blend | Yield Increase vs. MOP |
|---|---|---|---|---|---|
| University of Missouri | Corn | 100 lb $K_2O$/ac | Broadcast | 60% MOP / 40% NutriRhize | +13 bu/ac |
| University of Missouri | Corn | 50 lb $K_2O$/ac | Incorporated in row | 60% MOP / 40% NutriRhize | +11 bu/ac |
| North Dakota State University | Soybeans | 66 lb $K_2O$/ac | Broadcast | 60% MOP / 40% NutriRhize | +6 bu/ac |
| Mississippi State University | Sweet potatoes | 100 lb $K_2O$/ac | Incorporated | 100% NutriRhize | +63, 40-lb boxes |

## ANALYSIS

Soluble Potash ($K_2O$) ..... 35%
Calcium (Ca) ..... 4%
Magnesium (Mg) ..... 6%
Sulfur (S) ..... 3.2%

Derived from: Potassium Chloride, Calcium Sulfate, Magnesium Carbonate.
SGN = 200-400
Moisture Content: 0.8% to 1.0%, Maximum 1.0%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