



## MICROBIAL SOIL INNOCULANTS



### GRANULAR SOIL INOCULANT

**NutriWise®** (5-3-0 + 1.5% Ca, 1% S, 1.5% Fe, 0.5% Zn with 3% humic acids) is an eco-friendly granular soil inoculant that fixes nitrogen from the atmosphere, solubilizes phosphate and unlocks potassium from the soil.



### WATER SOLUBLE SOIL INOCULANT

**NutriWise® WSP** is a water soluble microbial powder for spray or soil applications and should be applied with a source of fulvic or humic acid.

#### Application Instructions

##### NutriWise 5-3-0

**For use with conventional and organic granular fertilizers:**

Replace 20 to 25% of soil applied granular NPK with an equal amount by weight of NutriWise.

Apply as normal and follow same application method and schedule as normal fertility program.

Follow up with foliar applications of NutriWise WSP to maintain microbial populations in between granular applications.

##### NutriWise WSP

**At or Before Planting:**

Apply NutriWise WSP at a rate of 1 to 3 ounces per acre.

**In-furrow:** Apply NutriWise WSP at a rate of 1 to 2 ounces per acre.

**NutriWise WSP should be applied with a source of humic or fulvic acid.**

## How does NutriWise work?

- NutriWise products elicit higher populations of native N-fixing microbes
- NutriWise microbes have shown higher N-fixing ability than common free-living N-fixing microbes
- The specifically selected microbes contained in NutriWise form a symbiotic community of mutually interdependent nutrient-releasing microbes
- When the microbes are signaled by the plant that it requires nutrients, NutriWise initiates the conversion and delivery process by:
  - Microbial solubilization of phosphate into soluble forms of phosphorus
  - Unlocking potassium in the soil into exchangeable potassium

## Soil and Plant Benefits

- Improve the Nutrient Use Efficiency (NUE) of chemical fertilizers blended with NutriWise
- Improve soil fertility
- Reduce the leaching of chemical fertilizers
- Increase soil organic matter
- Improve the soil environment for beneficial microbes
- Provides consistent, uniform slow-release of nitrogen
- Eliminates growth surges - nitrogen is released gradually throughout the plant's growth cycle

## Microbial Components

- Blend of naturally occurring microbes that work together to convert resources already present in the soil and atmosphere into useable plant nutrition
- Rhizosphere competent – sourced from the soil
- Quality assured – professionally fermented and backed by Certificate of Analysis documenting cfu/gram counts

*Bacillus amyloliquefaciens, Bacillus megaterium, Bacillus subtilis, Saccharomyces cerevisiae, Trichoderma harzianum*