



**NUTRIO® UNLOCK®** is a liquid biological soil amendment containing a diverse array of beneficial soil bacteria cultured from specifically selected pure strains of microbes in an oxygen enriched process for maximum viability. **NUTRIO UNLOCK** can be blended with conventional and organic fertilizers and soil amendments and/or impregnated onto dry fertilizer. The specific selection of beneficial microbes in **NUTRIO UNLOCK** improves soil biodiversity and allows for enhanced nutrient mineralization in the soil.

Applications of **NUTRIO UNLOCK** to inoculate soils with beneficial bacteria may be particularly important following soil fumigation, solarization, fallow or application of lime to correct acid soils.

**NUTRIO UNLOCK** should be used as part of a comprehensive **Total Nutrition System®** for optimizing plant growth, development, yield and quality.

### Benefits Attributed to Beneficial Soil Bacteria

- Organic matter mineralization
- Enhances phosphorus availability
- Plant growth promotion and development
- Enhanced resistance to stress
- Stabilization of soil aggregates
- Retention of nutrients in the soil-plant system
- Increased plant growth and yield

### Guaranteed Analysis

Contains Non-Plant Food Ingredients:

Contains 60 million colony forming units (CFU) per gallon of the following:

|   |                               |
|---|-------------------------------|
| <i>Rhodopseudomonas palustris</i> ..... | 2.26 x 10 <sup>3</sup> CFU/ml |
| <i>Bacillus brevis</i> .....            | 2.26 x 10 <sup>3</sup> CFU/ml |
| <i>Bacillus licheniformis</i> .....     | 2.26 x 10 <sup>3</sup> CFU/ml |
| <i>Streptomyces griseus</i> .....       | 2.26 x 10 <sup>3</sup> CFU/ml |
| <i>Bacillus megaterium</i> .....        | 2.26 x 10 <sup>3</sup> CFU/ml |
| <i>Rhodococcus rhodochrous</i> .....    | 2.26 x 10 <sup>3</sup> CFU/ml |
| <i>Lactobacillus plantarum</i> .....    | 2.26 x 10 <sup>3</sup> CFU/ml |

### Directions for Use

**NUTRIO UNLOCK** can be blended with liquid fertilizers and soil amendments to be applied in ground application equipment and through fertigation equipment.

**STARTER OR SIDEDRESS:** Apply 1-4 pints per acre.

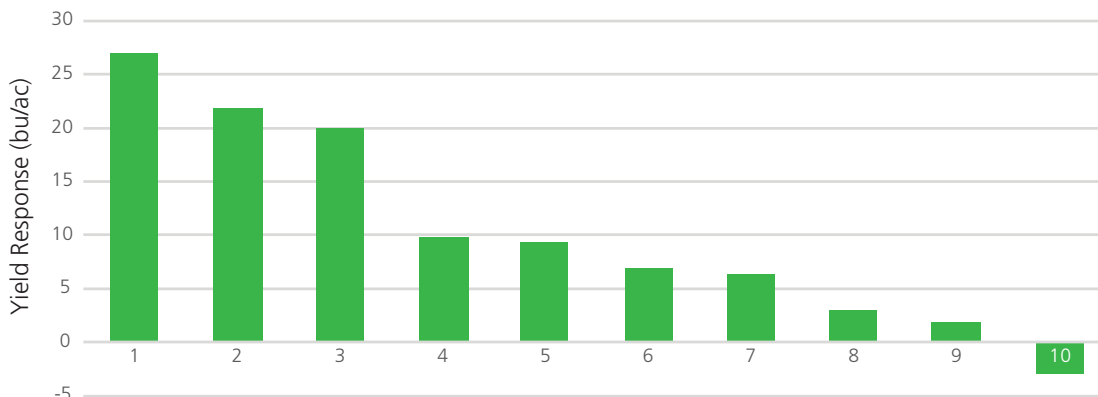
**BROADCAST AND FERTIGATION:** Apply 2-4 quarts per acre in enough solution to provide thorough coverage. If sprayed on soil surface, follow with an irrigation of at least ½” as soon as possible.

**MANURE APPLICATIONS:** 2-4 quarts per acre (2-4 quarts per 3,000-3,500 gallons of liquid manure).

10 replicated independent third party trials in Texas and North Dakota on corn investigating the effects on yield of 3-5 gallons per acre **TILL-IT® BLUE-ZONE® ULTRA** in-furrow with 1 quart per acre of **NUTRIO UNLOCK**.

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### UNLOCK Applied In-Furrow



**10 Sites**  
**90% win rate**  
**Mean = 10.3 bpa**

Rate = 1 qt/ac  
 BZU = 5 gpa  
 Corn

