Product Information

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:

- *Rhodopseudomonas palustris*: \( 2.26 \times 10^4 \) CFU/ml
- *Bacillus brevis*: \( 2.26 \times 10^4 \) CFU/ml
- *Bacillus licheniformis*: \( 2.26 \times 10^4 \) CFU/ml
- *Streptomyces griseus*: \( 2.26 \times 10^4 \) CFU/ml
- *Bacillus megaterium*: \( 2.26 \times 10^4 \) CFU/ml
- *Rhodococcus rhodochrous*: \( 2.26 \times 10^4 \) CFU/ml
- *Lactobacillus plantarum*: \( 2.26 \times 10^4 \) 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 1-2 pints per acre.

**BROADCAST:** Apply 2-4 quarts per acre in enough solution to provide thorough coverage.

**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.

**Unlock Applied In-Furrow**

![Yield Response (bu/ac)]

- **Rate = 1 qt/ac**
- **BZU = 5 gpa**
- **Mean = 10.3 bpa**

For information only. Not a label. Prior to use, always read and follow the product label instructions. Also not for availability in all states. Please contact your Wilbur-Ellis representative for product availability and registration.