OMRI LISTED®
or Organic Use

CERTIFIED ORGANIC PRODUCTS

For a powerful combination that can increase yields, lower input costs, and increase beneficial soil microbes, use **Soil Restore** and **Liquid Bacteria Concentrate**. These two biological soil amendments have proven themselves in field tests with:

- Increased yield with less nitrogen and herbicides—lowering input costs*
- Increased uptake of nutrients
- Increased root mass and nodules
- Increased microbial activity*
- Increased cation exchange capacity (CEC), organic matter, humus, calcium, and trace minerals in the soil*
- Reduced compaction up to 25% and 18" deep*
- Increased mycorrhizal colonization**—see below for the benefits of mycorrhizae.
- 28-43 bu./acre increase in corn***.
- Increased relative feed value

* Agricultural Custom Research studies show weed suppression, reduced compaction, increased yields, and increased microbes
**Tests at Mycorrhizal Applications, Inc.
*** North Carolina State University tests

SOIL RESTORE

Soil Restore (with mycorrhizal stimulants) releases the ionic bonds between minerals in the soil. This sets up a series of natural reactions resulting in:

- Loose soil with more oxygen
- More beneficial microbe populations
- Greater root mass and available nutrients

The end result is larger, higher-quality yields with plants that are more tolerant to stress. Soil Restore with mycorrhizal stimulants should be used with Liquid Bacteria Concentrate, which prepares the soil for optimum bacteria growth.

LIQUID BACTERIA CONCENTRATE

- Contains bacteria that convert nitrogen in the soil into a usable form
- Provides several beneficial strains of aerobic and anaerobic bacteria
- Produces amylase, lipase, protease, and cellulose enzymes in the soil for plants
- Breaks down residue to build organic material
- Frees up organic compounds

WHAT ARE MYCORRHIZAE?

Mycorrhizae are naturally occurring beneficial fungi that attach to the plant root system, spreading filaments inside and outside of the roots, working as an extension of the root of almost every plant. Soil fumigations, fungicides, tillage, and overuse of synthetic fertilizers can destroy mycorrhizae fungi.

FUNCTIONS OF MYCORRHIZAE

Mycorrhizae improves soil structure, reduces fertilizer rates, and increases growth response. This fungus also protects roots from soil toxins, diseases, and insects. It seeks out nutrients from a far greater soil area than the plant can access by itself and regulates the uptake of nutrients in response to the plant needs. Plants have greater resistance to invasion of weeds and insects because plants are healthier.

Fungi are a largely responsible for stabilizing calcium. Soil low in fungi will permit calcium to leach.

FUNCTIONS OF BACTERIA

Bacteria are able to perform a wide range of chemical changes, including breakdown of organic matter and disease suppression. They are also useful in providing nitrogen to plants.

Liquid Bacteria Concentrate contains bacteria that colonize the plant rhizosphere, promoting plant growth and suppressing plant pathogens. Plant growth is credited to the phytase activity that provides plants with phosphate. It also produces a variety of proteases, amylases, and gluconases.

Liquid Bacteria Concentrate also contains bacteria that have the ability to tolerate extreme environmental conditions by producing a tough protective coating. The bacteria continue to live on the root system and provide protection throughout the growing season.

AgXplore®
agxplore.com

Nutrapathic™

SOIL RESTORE

With

MYCORRHIZAL STIMULANTS

A Plant and Soil Supplement

Guaranteed analysis:
0.029% plant alcohol extracts
0.05 mycorrhizal stimulants
Inert ingredients:
1.261 Celtic Sea Salt
98.71% water

DIRECTIONS: Mix 2 oz. of concentrate to a minimum of 5 gallons of water per acre.

- **Keep out of reach of children**
- **Do not take internally**
- **Do not store diluted**

SHAKE WELL BEFORE USING

May be applied, in row, broadcast on the soil, through chemigation. May be applied with fertilizers, herbicides or pesticides at planting, mid-season or up to the last day before harvest.

WARNING: This product may increase the fertilizer or pesticidal activity of products applied to it. A compatibility test should be conducted prior to mixing in tank mix. This product has shown poor results when used with anhydrous ammonia or potassium chloride.

Manufactured for:
AgXplore INTERNATIONAL LLC
PO Box 638 • 7035 State Hwy D • Parma, MO 63870
573.357.4506 • www.agxplore.com

DO NOT FREEZE

OMRI LISTED or Organic Use

1 GALLON 128 FLUID Oz. @68ºF(3.785 Liters)

Nutrapathic™

LIQUID BACTERIA CONCENTRATE

CAUTION! POSSIBLE EYE & RESPIRATORY SYSTEM IRRITANT. SEE MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT.

DIRECTIONS: Mix 2 oz. of concentrate to a minimum of 5 gallons of water per acre.

Apply with Nutrapatic Soil Conditioner, or Soil Restore. The Combination may be mixed with most fertility programs. May be applied in the row, broadcast on the soil, or foliar fed. May be applied with fertilizers at planting, mid-season, or up to the last day before harvest.

SHAKE WELL BEFORE USING

INGREDIENTS: A blend of several strains of non-pathogenic aerobic and facultative anaerobic, high enzyme producing bacteria with stabilizing and suspending agents. Enzymes produced include Amylase, Lipase, Protease, and Cellusase.

Information regarding the contents and levels of metals in this product is available on the Internet at www.aapfco.org/metals.htm

WARNING: This product may increase the activity of fertilizer products applied to it. A compatibility test should be conducted prior to mixing in tank mix. This product has shown poor results when used with anhydrous ammonia or potassium chloride.

- **Keep out of reach of children**
- **Do not take internally.**
- **Avoid contact with skin, eyes or clothing.**
- **Provide good ventilation when handling this product.**
- **Avoid inhalation of dust or spray from product.**
- **Wash thoroughly after handling.**
- **Do not store diluted.**

DO NOT FREEZE

- Keep in cool, dry area
- Keep out of direct sunlight.

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1 Gallon 128 Fluid Oz (3.785 Liters)