

Natural Growing

Through Biology



### Natural N Through Biology

Nitrogen is a critical component of plant growth and health. Nitrogen deficiencies lead to poor crop quality and poor yield, and the converse, nitrogen excesses, can lead to soil and water quality degradation, loss of organic matter, and other environmental and agricultural issues.

The atmosphere is 78% nitrogen, so why do we not utilize more of this resource for plant growth? The answer is access. Atmospheric nitrogen is not in a form that can be used by plants. This is where nitrogen fixing bacteria (NFB) come to the aid of the plant (and grower).

Beyond legumes and the nodules that house rhizobia, another type of NFB exist; Free Living NFB. These are organisms that work with all plant types and not just legumes. This unlocks the atmospheric potential around us into a plant usable form.

Natural Growing Through Biology

BFMS® Biological Form Management System™  
**Spectrum NFB™**  
 Nitrogen Fixing Biological Soil Inoculant

**CONTAINS NON-PLANT FOOD INGREDIENTS**  
 Live beneficial soil microbes of the following types and minimum numbers of colony forming units (CFU) per gram:  
 Azotobacter globiformis IX10; Azospirillum brasilense IX10; A. lipoferum IX10; Azotobacter chroococcum IX10; A. paspali IX10; A. vinelandii IX10; Bacillus amyloliquefaciens IX10; B. atrophaeus IX10; B. thuringiensis IX10; B. megaterium IX10; B. pumilus IX10; B. subtilis IX10; Brevisbactria brevis IX10; Micrococcus luteus IX10; Pseudomonas fluorescens IX10; P. putida IX10; Rhodospirillum rubrum IX10; Streptomyces griseus IX10  
 99.99% inert carrier ingredients

**CAUTION:**  
 • Keep out of reach of children and pets.  
 • Do not swallow.  
 • Mix with non-chlorinated water.

**Contents live soil microbes:**  
 • Store below 80° F; do not freeze.  
 • Keep out of direct sunlight.  
 • Color and density may vary.  
 • Mix with non-chlorinated water.

**Manufactured & Guaranteed by:**  
 Tainio Biologicals, Inc.  
 PO Box 19185, Spokane, WA 99219  
 Tel. 509.747.5471 • info@tainio.com  
 www.tainio.com

Net weight: \_\_\_\_\_ grams (\_\_\_\_ oz) Treats: \_\_\_\_\_ acres Lot: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

**Spectrum NFB** combines the powerful benefits of these robust nitrogen fixing organisms, with the full array of plant growth promoting rhizobacteria (PGPR) that you have already come to rely on from Spectrum, in one easy to use package.

Suggested minimum application rate: 75 grams per acre

Sometimes, in addition to broad-spectrum inoculation, crops need a little boost. Introducing new **NFBoost**. Intended as a supplemental inoculant, NFBoost can be applied as a foliar, or as a supplement to one of our other soil inoculants. NFBoost contains a targeted blend of NFB designed to boost plant and soil health along with the grower's bottom line. Suggested minimum application rate: 25 grams per acre.

Better Growing Through Biology

BFMS® Biological Form Management System™  
**NFBoost™**  
 Biological Nitrogen Fixation Inoculant

**CONTAINS NON-PLANT FOOD INGREDIENTS**  
 Live beneficial soil microbes of the following types and minimum numbers of colony forming units (CFU) per gram:  
 Azotobacter globiformis IX10; Azospirillum brasilense IX10; A. lipoferum IX10; Azotobacter chroococcum IX10; A. paspali IX10; A. vinelandii IX10; Bacillus amyloliquefaciens IX10; B. megaterium IX10; B. pumilus IX10; B. subtilis IX10; Pseudomonas fluorescens IX10; P. putida IX10; Rhodospirillum rubrum IX10  
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