



PRODUCT CATALOG

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# YOUR GLOBAL PARTNERS FOR INNOVATIVE, BIOLOGICAL SOLUTIONS



Faust Bio-Agricultural Services, Inc. (dba BioAg) was established by Robert Faust and Carly Faust in 1981. Their ultimate goal being to provide innovative and natural solutions to the agricultural and animal nutrition sectors.

In the last decade, as a demand for better solutions has increased, our company has experienced accelerated growth in the Indoor Agriculture and Specialty Agriculture arena.

At BioAg we continue to grow our product offerings in the Biostimulant, Specialty Nutrients and Biological Amendment categories. We are accomplishing this by expanding our in-house research development and by setting up strategic exclusive manufacturing partnerships around the world.



# SOIL & PLANT AMENDMENTS



## MAXIMIZE POTENTIAL

In agriculture, soil amendments, such as humic acids and silicon, have a favorable effect on the physical, chemical and biological characteristics of soil. They improve soil structure, water holding capacity and reduce hardpan. Since they are considered detoxifying substances, this causes them to chelate heavy metals which can cause toxic reactions and inhibit nutrient availability in plants.

Humic substances, including both humic acid and fulvic acid, are energy rich matter that increase microbial growth and biochemical interactions; such as carbon and nitrogen cycles and creation of other phytostimulants. In plants, the use of humic acids has been associated with improved production.

Ful-Power | Ful-Humix | Ful-Humix L | TM-7

Silicon is important for plant health. When applied correctly, silicon enters the plant, is transported through the xylem and is deposited into the aerial parts of the plants, reducing abiotic stress on plants. At BioAg we continue to bring innovative solutions in this space to our customers.

Bio-SuperSil | ION-14 | ION-14 L

# FUL-POWER®

## Hydrophobic Fulvic Acid

Ful-Power® is a fast-acting, low molecular weight fulvic isolate that is made via an innovative biological extraction method. It is a missing link in most growing programs and preferred by growers because of its superior performance combined with its ease of use.

Ful-Power is clean and compatible in all systems and across all pH ranges. It is an essential component for all growing styles and is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems.

Ful-Power is versatile. It can be used on all crops and in combination with most organic/synthetic fertilizers and pesticides. For application rates, refer to product label. Application rates will vary by your crop system. Perform a compatibility jar test prior to tank mixing.

Contains non-plant food ingredients: 0.6% hydrophobic fulvic acid by HPTA method accepted by AAPFCO. Some states do not recognize fulvic acid. In these states the product is registered under the accepted claim of 0.06% humic acid(s).

Form: liquid

Color: yellow gold to bronze

Odor: mild odor

Solubility: 100% soluble

pH: 3.0-4.0

Store in a cool, dry place.

OMRI and OIM listed. HPTA test method certified.



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# FUL-HUMIX®

## Humic Acid Concentrate

Ful-Humix is a dry humic acid(s) product and fast-acting soil conditioner that will help maximize micronutrient uptake.

BioAg's unique manufacturing method retains the high value and efficacy and makes the humic acid(s) soluble for increased results.

Ful-Humix is recommended for use in fertigation (drip irrigation or pivot), sprays, at planting, and in hydroponic systems. Ful-Humix can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.

Contains non-plant food ingredients: 50%.Humic Acid(s)

Form: powder or granular

Color: dark brown/black

Odor: mild odor

Solubility: 95%-99% soluble. Highly soluble mesh powders available upon request.

pH: 9.0-11.0

Store in a cool, dry place

OMRI and OIM listed. HPTA test method certified.



SOIL & PLANT AMENDMENTS



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**FUL-HUMIX<sup>®</sup>** L

## Liquid Humic Acid(s)

Ful-Humix<sup>®</sup> L is a soluble liquid humic acid(s) product and fast-acting soil conditioner that will help maximize micronutrient uptake.

BioAg's unique manufacturing method retains the high value and efficacy and makes the humic acid(s) soluble for increased results.

Ful-Humix L is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. Ful-Humix L can be used on all crops and in combination with most organic and synthetic fertilizers. Perform compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.

Non-plant food ingredients: 3% Humic Acid(s)

Form: liquid

Color: dark brown/black

Odor: mild odor

Solubility: 100%

pH: 9.0-11.0

Store in a cool, dry place.

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## Essential Micronutrients Combined with Humic Acid(s)

Seven micronutrients critical for plant success and our humic acid(s) powder are complexed as part of an innovative manufacturing process that leads to increased absorption and efficacy. When used regularly in the soil, TM-7™ increases fruit set and quality, improves soil tilth, and increases trace element levels.

TM-7 is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. TM-7 can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.

Warning: Contains boron. Do not use on sensitive crops. Use only according to manufacturer's directions. The use of this material on any crops other than those recommended may result in injury. Contains molybdenum. Forage crops high in molybdenum may be toxic to grazing ruminant animals or other livestock. Use only according to manufacturer's directions.

### Guaranteed Analysis:

Sulfur (S).....	2%	Copper (Cu).....	0.31%
Boron (B).....	0.37%	Iron (Fe).....	1.2%
Cobalt (Co).....	0.05%	Manganese (Mn).....	1.2%
Molybdenum (Mo).....	0.1%	Zinc (Zn).....	0.7%

Contains non-plant food ingredients: 40% Humic Acid(s)

Form: powder or granular

Color: dark brown/black

Odor: mild odor

Solubility: 95-99% soluble. Highly soluble mesh powders available on request.

pH: 9.0-11.0

Store in a cool, dry place.

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# BIO-SUPERSIL™



0-0-0, 0.5% Si  
Nanostructured Silicon

Bio-SuperSil™ is a soluble liquid that provides beneficial silicon and should be used as part of a complete fertilizer program.

Bio-SuperSil mimics the silica found in nature but with enhanced benefits. It is a unique and proprietary formulation from BioAg and uses non-ionic, nanostructured silica, which is silica containing at least one external dimension between 1 to 100 nm.

Bio-SuperSil has a lower pH, which allows users to blend it with water or fertilizer without drastically increasing the solution pH and without a pH buffer. When applied correctly, silicon enters the plant and is transported through the xylem and deposited into the aerial parts of the plants, including the stems and leaves where, it helps fortify cells.

Bio-SuperSil is recommended for use in pivot or drip fertigation, with foliar sprays, at planting, and in hydroponic systems. Bio-SuperSil can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.

Contains non-plant food ingredients: 0.5% Soluble Silicon (Si) from Silicon Dioxide

Form: liquid  
Color: light cream-light orange  
Odor: odorless  
Solubility: 100% soluble  
pH: 5-7  
Store in a cool, dry place. Do not freeze.

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# ION-14™



## Soluble Silicon with Humic Acid(s)

ION-14™ is a dry product that provides beneficial silicon and humic acid(s) and should be used as part of a complete fertilizer program.

It can be used through the entire crop life cycle as a powerful nutrient activator to feed the soil biology.

ION-14 is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. ION-14 can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.

Contains non-plant food ingredients: 2% Soluble Silicon, 7% Monosilicic Acid  
50% Humic Acid(s),

Form: powder or granular

Color: dark brown

Odor: mild

Solubility: 95%-99%soluble. Highly soluble mesh powders available on request.

pH: 8-9

Store in a cool, dry place

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**ION-14™** (L)**Soluble Silicon with Humic Acid(s)**

ION-14™ L is a soluble liquid that provides beneficial silicon and humic acid(s) and should be used as part of a complete fertilizer program.

It can be used through the entire crop life cycle as a powerful nutrient activator to feed the soil biology.

ION-14 L is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. ION-14 L can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.



Contains non-plant food ingredients: 0.15% Soluble Silicon, 0.5% Monosilicic Acid, 3% Humic Acid(s)

Form: liquid

Color: dark brown

Odor: mild

Solubility: 100% soluble in water

pH: 7-9

Store in a cool, dry place.

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# BIOSTIMULANT FERTILIZERS



## HARNESSING NATURE

The legal definition of a Biostimulant is: “A substance or micro-organism that, when applied to seeds, plants, or the rhizosphere, stimulates natural processes to enhance or benefit nutrient uptake, nutrient efficiency, tolerance to abiotic stress, or crop quality and yield.” (*US Farm Bill 2018*)

Biologically derived fertilizers naturally stimulate plant growth and health while reducing the need for traditional fertilizer use. They improve plants’ overall tolerance to abiotic stresses and enhance plant quality, growth and yield.

CytoPlus | Nitro-Mino | Cal-Mino | Boro-Mino | Multi-Mino

# CYTOPLUS™

0-0-7.5 Kelp, Micronutrients and Humic Acid(s)

Kelp, seven micronutrients critical for plant success and our humic acid(s) powder are complexed as part of an innovative manufacturing process that leads to increased absorption and efficacy. When used regularly in the soil CytoPlus increases flowering and fruit set, improves soil tilth, and increases trace element levels.

CytoPlus is recommended for use in fertigation (drip irrigation or pivot), sprays, at planting, and in hydroponic systems. CytoPlus can be used on all crops and in combination with most organic and synthetic fertilizers. Perform compatibility jar test prior to tank mixing.

For application rates refer to product label. Application rates will vary by your crop system, please contact BioAg sales team or your crop advisor for further details.

Warning: Contains boron. Do not use on sensitive crops. Use only according to manufacturer's directions. The use of this material on any crops other than those recommended may result in injury. Contains molybdenum. Forage crops high in molybdenum may be toxic to grazing ruminant animals or other livestock. Use only according to manufacturer's directions.

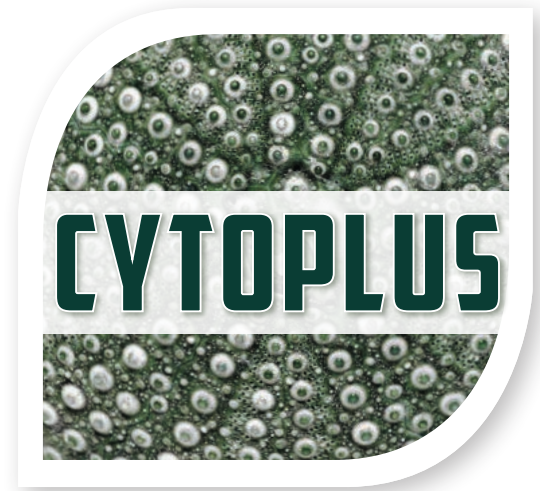
**Guaranteed Analysis:**

Boron (B).....	0.25%	Manganese (Mn).....	0.8%
Soluble Potash (K <sub>2</sub> O).....	7.5%	Cobalt (Co).....	0.035%
Molybdenum (Mo).....	0.05%	Copper (Cu).....	0.13%
Sulfur (S).....	3.25%	Iron (Fe).....	0.9%
Zinc (Zn).....	0.5%		

Contains non-plant food ingredients: 25% Seaweed Extract, 40% Humic Acid(s)

- Form: powder or granular
- Color: dark brown / black
- Odor: mild odor
- Solubility: 95%-99% soluble.
- Highly soluble mesh powders available on request.
- pH: range 9.0-11.0
- Store in a cool, dry place

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# NITRO-MINO™



BIOSTIMULANT FERTILIZERS

14-0-0

Nitro-Mino™ is a water-soluble nitrogen fertilizer derived from soy protein hydrolysate. It is a fine, free-flowing, hygroscopic, spray-dried powder that contains short chains of amino acids in peptide form, derived from enzymatic hydrolysis of non-GMO soybeans. It is a low-sodium, low-nitrate, sprayable concentrate.

Nitro-Mino should be used as part of a complete fertilizer program to address nutrient deficiencies in the crop. It can be used through the entire crop life cycle to correct nitrogen deficiency and feed the soil biology.

Nitro-Mino is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. Nitro-Mino can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact BioAg sales team or your crop advisor for further details.

#### Guarantee Analysis

Total Nitrogen (N).....14%  
14% Water Soluble Nitrogen

Form: powder

Color: creamy

Odor: soy/malty

Solubility: 100% soluble in water

pH: 5-6

Store in a cool, dry place.

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# CAL-MINO™



## 8-0-0 plus Calcium

Cal-Mino™ is a water-soluble calcium fertilizer derived from soy protein hydrolysate and calcium carbonate. It is a fine, free-flowing, hygroscopic, spray-dried powder that contains amino acids and short polypeptides derived from enzymatic hydrolysis of soybeans. It is a low-sodium, low-nitrate, sprayable concentrate.

Use as part of a complete fertilizer program to address calcium deficiencies in the crop. It can be used through the entire crop life cycle to correct nutrient deficiency and feed the soil biology.

Cal-Mino is recommended for use in drop or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. It can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system, please contact the BioAg sales team or your crop advisor for further details.

### Guarantee Analysis

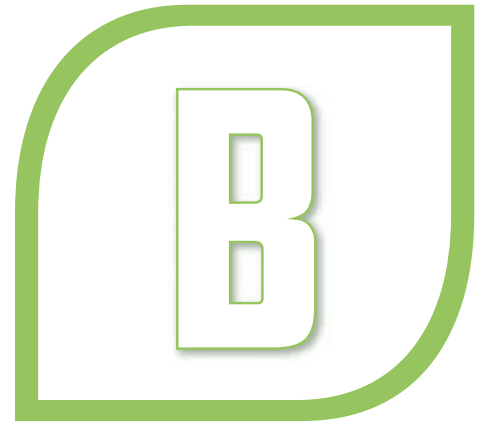
Total Nitrogen (N).....8%  
 8% Water Soluble Nitrogen  
 Calcium (Ca) .....10%

Form: powder  
 Color: off-white  
 Odor: non-distinctive  
 Solubility: 100% soluble in water  
 pH: 6-7  
 Store in a cool, dry place.

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# BORO-MINO™



BIOSTIMULANT FERTILIZERS

## 5-0-0 plus Boron

Boro-Mino™ is a water-soluble boron fertilizer derived from soy protein hydrolysate and boric acid. It is a fine, free-flowing, hygroscopic, spray-dried powder that contains short chains of amino acids in peptide form, derived from enzymatic hydrolysis of non-GMO soybeans. It is a low sodium, low nitrate, sprayable concentrate.

Use Boro-Mino as part of a complete fertilizer program to address boron deficiencies in the crop/soil. It can be used through the entire crop life cycle to correct nutrient deficiency and feed the soil biology.

Boro-Mino is recommended for use in drop or pivot fertigation, sprays, at planting, and in hydroponic systems. It can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.

Warning: Contains boron. Do not use on sensitive crops. Use only according to manufacturer's directions. The use of this material on any crops other than those recommended may result in injury.

### Guarantee Analysis:

Total Nitrogen (N).....5%  
5% Water Soluble Nitrogen  
Boron (B) .....10%

Form: powder

Color: off-white

Odor: non-distinctive

Solubility: 100% soluble in water

pH: 7-8.5

Store in a cool, dry place.

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# MULTI-MINO™



## 7-0-0 plus Micronutrients

Multi-Mino™ is an organic micronutrient fertilizer complexed with amino acids. It is a fine, free-flowing, hygroscopic, spray-dried powder that contains short chains of amino acids in peptide form, derived from enzymatic hydrolysis of non-GMO soybeans. It is a low-sodium, low-nitrate, sprayable concentrate.

Multi-Mino should be used as part of a complete fertilizer program to address micronutrient deficiencies and to feed the soil biology. It can be used throughout the entire life cycle of the crop.

Multi-Mino is recommended for use in drip or pivot fertigation, with foliar sprays, at planting, and in hydroponic systems. It can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

Warning: Contains boron. Do not use on sensitive crops. Use only according to manufacturer’s directions. The use of this material on any crops other than those recommended may result in injury.

For application rates, refer to product label. Application rates will vary by your crop system. Please contact BioAg sales team or your crop advisor for further details.

### Guarantee Analysis:

Total Nitrogen (N)..... 7%	Iron (Fe) .....2.5%
7% Water Soluble Nitrogen	Manganese (Mn)..... 1.0%
Boron (B) .....0.5%	Molybdenum (Mo).... 0.1%
Copper (Cu)..... 1.0%	Zinc (Zn) .....3.0%

- Form: powder
- Color: bluish green
- Odor: non-distinctive
- Solubility: 100% soluble in water
- pH: 4-6
- Store in a cool, dry place.

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# BIOLOGICAL AMENDMENTS



## SYNERGISTIC SOLUTIONS

At BioAg we source and manufacture innovative, organic plant growth solutions that are biologically derived.

Bacterial and fungal inoculant microorganisms have the ability to increase nutrient bioavailability through nitrogen fixation and mobilization of key nutrients to plants. They also remediate soil structure by improving its aggregation and stability.

Arbuscular mycorrhizal fungi are a group of fungi that live around the roots of plants. By living together, the fungi and host plant benefit each other. The fungi can live in a habitat without having to compete for resources and gain a supply of carbon from the plant. Meanwhile, they provide an enhanced supply of nutrients to the plant which improves plant growth, the ability to reproduce and tolerance to drought. Arbuscular mycorrhizal fungi colonise a wide variety of host plants, including grasses, herbs, agricultural crops and legumes.

VAM Endo-Mix

*More coming in 2022...*

# VAM ENDO-MIX™

Endo Mycorrhizae Blend with Humic Acid(s)

Vam Endo-Mix™ is a blend of seven, beneficial, endo-associating species of mycorrhizae fungi cultivated on live roots (in vivo), plus our humic acid(s). This innovative mix increases the rate of transplant success, promotes early establishment, and increases absorption of water and nutrients.

VAM Endo-Mix is recommended for use in drip or pivot fertigation, at planting, and in hydroponic systems. VAM Endo-Mix can be used on all crops and in combination with most organic and synthetic fertilizers. Perform a compatibility jar test prior to tank mixing.

For application rates refer to product label. Application rates will vary by your crop system. Please contact the BioAg sales team or your crop advisor for further details.



## Active Ingredients

<i>Rhizophagus intraradices</i>	104 propagules/gm
<i>Septoglomus deserticola</i>	9 propagules/gm
<i>Claroideoglomus etunicatum</i>	9 propagules/gm
<i>Rhizogloium clarum</i>	9 propagules/gm
<i>Claroideoglomus claroideum</i>	9 propagules/gm
<i>Funneliformis mosseae</i>	9 propagules/gm
<i>Gigaspora albida</i>	9 propagules/gm

Form: powder or granulated

Color: dark brown/black

Odor: mild odor

Solubility: not soluble

pH: 5-6

Storage: Store in a cool, dry place out of direct sun.

Expires: Two years from packed by date

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