

Plant Health Solutions

- Foliar Nutrients
- Patent Pending Enzyme Technology
- Chelated & Complexed Nutrients
- Humic Acids
- Specialty Liquid Nutritionals
- Sustainable Nutrition



About BRANDT

BRANDT is a leading manufacturer of specialty plant health solutions for the agriculture, turf and ornamental, and lawn and garden markets. The company has been at the forefront of plant health technology and innovation since 1953, and currently offers one of the largest portfolios of liquid micronutrient and specialty nutrition products on the market today. BRANDT products are manufactured in five U.S. locations and three international locations that serve Central and South America, Europe, Africa, China and Australia.



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Foliar Nutrients

BRANDT Smart System

BRANDT Manni-Plex



BRANDT® Smart System®

Smarter Foliar Nutrition

As today's tank mixes become more challenging, the need for "smarter" and more compatible foliar nutrition is increasing. BRANDT SMART SYSTEM foliar micronutrients were designed for superior performance in a wide range of complex crop protection tank mixes, including glyphosate and *select dicamba and 2,4-D herbicides.

Key Advantages

- Proprietary molecules are formulated for rapid nutrient uptake and delivery to plant growing points
- Delivers nutrient combinations that are in high demand in row crops
- Nutrients are protected so that they will not bind with the herbicide or other nutrients



Legacy BRANDT SMART SYSTEM Formulations For Tank Mixing with Glyphosate

Product	Guaranteed Analysis
BRANDT Smart B	5.0% B
BRANDT Smart Mg	10-0-0, 4.0% Mg, 4.0% S
BRANDT Smart Mn	6-0-0, 3.5% S, 6.0% Mn
BRANDT Smart Trio®	4-0-0, 3.0% S, 0.25% B, 3.0% Mn, 3.0% Zn
BRANDT Smart Zn	6-0-0, 3.0% S, 6.0% Zn

NEW - Advanced Compatibility BRANDT SMART SYSTEM Foliar Nutrients for Tank Mixing with Dicamba

BRANDT SMART SYSTEM's new formulations are designed for superior compatibility in virtually any tank mix - from dicamba and 2,4-D herbicides to glyphosate. The BRANDT formulations below are approved for use with the specific herbicides listed.

Product	Guaranteed Analysis	XtendiMax®	Engenia®	Enlist Duo®	Enlist One®
BRANDT Smart B-Mo	5.0% B, 0.5% Mo	■	■	■	
BRANDT Smart Cu	5-0-0, 3.0% S, 6.0% Cu	■		■	■
BRANDT Smart Fe	2.0% S, 4.0% Fe	■	■		
BRANDT Smart K B	2-0-16, 2.5% B, 0.2% Mo	■*	■	■	■
BRANDT Smart Mn Plus	5-0-0, 2.0% S, 4.0% Mn	■*	■		■
BRANDT Smart P	4-24-0	■			■
BRANDT Smart Quatro® Plus	5-0-0, 2.0% S, 0.5% B, 2.0% Mn, 0.05% Mo, 2.0% Zn	■	■	■	■
BRANDT Smart Sulfur Plus	5-0-0, 5.0% S, 0.5% B, 1.5% Mn, 0.05% Mo, 1.5% Zn	■	■	■	■

*with approved DRA

To see a complete list of formulations approved for use with dicamba and 2,4-D visit:

- Brandt.co/TankMixApprovals
- XtendiMaxApplicationRequirements.com
- EngeniaTankMix.com
- EnlistTankMix.com



BRANDT[®] Manni-Plex[®]

High Performance Foliar Nutrients

BRANDT MANNI-PLEX foliar nutrients provide the right nutrient, at the right time, in the right form. The proprietary formulations are designed for rapid nutrient absorption and mobility, which allows for faster correction of nutrient deficiencies.

Key Advantages

- Formulations coat plant leaves and re-wet after drying, which extends the amount of time nutrients are available for uptake
- Improves plant strength and vigor
- Nutrients support key plant physiological processes that impact plant growth, development and response to environmental stress
- Compatible with most insecticides, fungicides and PGR's

BRANDT Manni-Plex for Beans

2-0-0 | 0.2% B | 0.3% Fe | 3.2% Mn | 0.01% Mo | 2.1% Zn

Derived from urea, sodium borate, iron nitrate, manganese nitrate, sodium molybdate and zinc nitrate

BRANDT Manni-Plex for Citrus

5-0-0 | 0.25% B | 1.0% Fe | 2.5% Mn | 2.0% Zn

Derived from urea, iron nitrate, manganese nitrate, zinc nitrate and sodium borate

BRANDT Manni-Plex for Corn

3-0-0 | 0.5% Mg | 0.2% B | 0.05% Cu | 0.9% Mn | 4.7% Zn

Derived from magnesium nitrate, copper nitrate, manganese nitrate, zinc nitrate, urea and sodium borate

BRANDT Manni-Plex for Pecans

5-0-0 | 1.0% Cu | 0.5% Fe | 2.0% Mn | 3.0% Zn

Derived from urea, copper nitrate, iron nitrate, manganese nitrate and zinc nitrate

BRANDT Manni-Plex for Small Grains

2-0-0 | 0.5% B | 2.0% Cu | 1.5% Mn | 1.5% Zn

Derived from copper nitrate, manganese nitrate, zinc nitrate, urea and sodium borate

BRANDT Manni-Plex for Tree Nuts

5-0-0 2.0% Mg 0.2% B 2.0% Cu 3.0% Zn

Derived from urea, magnesium nitrate, sodium borate, copper nitrate and zinc nitrate

BRANDT Manni-Plex for Vegetables

5-0-0 1.8% Mg 0.4% B 1.25% Fe 0.9% Mn 0.9% Zn

Derived from magnesium nitrate, ferric nitrate, manganese nitrate, zinc nitrate, urea and sodium borate

Foli-Cal®

5-0-0 10.0% Ca

Derived from calcium acetate, calcium nitrate

BRANDT Manni-Plex B Moly

5-0-0 3.3% B 0.5% Mo

Derived from urea, boron ethanolamine and sodium molybdate

BRANDT Manni-Plex Cal-B

7.0% Ca 1.0% B

Derived from calcium chloride, boric acid.

BRANDT Manni-Plex Cal-Mag

7-0-0 5.3% Ca 2.6% Mg

Derived from calcium nitrate, magnesium nitrate

BRANDT Manni-Plex Cal Zn

6-0-0 6.0% Ca 3.0% Zn

Derived from calcium nitrate, zinc nitrate

BRANDT Manni-Plex Fe

5-0-0 5.0% Fe

Derived from urea, ferrous sulfate

BRANDT Manni-Plex K

0-0-20

Derived from potassium carbonate

BRANDT Manni-Plex Mg

5-0-0 4.0% Mg

Derived from magnesium nitrate, urea

BRANDT Manni-Plex Mn

7-0-0 5.0% Mn

Derived from manganese nitrate, urea



BRANDT Manni-Plex Mo

8.0% Mo

Derived from sodium molybdate

BRANDT Manni-Plex Ni

7-0-0 5.0% Ni

Derived from nickel nitrate, urea

BRANDT Manni-Plex Si

1.0% Fe

Derived from iron EDTA

10.0% silicon dioxide (SiO₂) derived from sodium silicate

BRANDT Manni-Plex Zn

3-0-0 7.0% Zn

Derived from zinc nitrate, urea

N-Boron®

5-0-0 3.3% B

Derived from urea, boric acid

Patent Pending Enzyme Technology

BRANDT EnzUp



BRANDT® EnzUp®

Patent Pending Enzyme Technology

BRANDT ENZUP is a revolutionary new enzyme-based specialty product line developed from years of scientific research. Each formulation delivers a high concentration of enzymes that are treated with a patent pending protection process.

Key Advantages

- Enzymes break down organic matter and convert nutrients into smaller, digestible units
- Easy addition to fertilizer program with exceptional yield potential
- Performs consistently across varying soil types

The Importance of Enzymes in Plant Health

Enzymes are proteins made by plants, microbes or other organisms in the soil that perform chemical reactions. They act as catalysts to breakdown organic matter in the soil and release plant available nutrients. Enzymes also play a role in many biochemical processes that occur in the soil including nitrogen fixation and conversion, urea availability, organic matter breakdown, carbon cycling and pesticide degradation.



Liquid Formulation

BRANDT EnzUp Mn

3.0% Mn

Derived from manganese EDTA

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Lipase	2.0 x 10 ³ μUnits/ml
Mannanase.....	1.0 x 10 ⁶ mUnits/ml

BRANDT EnzUp Zn

4.0% Zn

Derived from zinc EDTA

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Lipase	2,000 μUnits/ml
Mannanase.....	1,000 mUnits/ml

Dry Formulations

BRANDT EnzUp P DS

12-58-0

Derived from monoammonium phosphate

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Phosphatase	5.0 x 10 ² μUnits/g
Mannanase.....	2.2 x 10 ⁶ μUnits/g

BRANDT EnzUp K DS

5-0-49 8.0% S

Derived from potassium nitrate, potassium sulfate and muriate of potash

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Phosphatase	3.5 x 10 ² μUnits/g
Mannanase.....	1.5 x 10 ⁶ μUnits/g

Nutrient Efficiency Enhancers

BRANDT Reaction

N-Boost



BRANDT® Reaction®

Reliable Nutrient Delivery

BRANDT REACTION formulations deliver highly efficient nutrients that remain available in the soil for longer periods of time. They are an excellent tool for improving nutrient uptake and correcting deficiencies.

Key Advantages

- Improved plant strength and vigor
- Nutrients support key plant physiological processes that impact plant growth, development and response to environmental stress
- Superior tank-mix compatibility, including use with other nitrate fertilizers
- Ideal for planter band applications and irrigation systems
- Low salt index

Liquid Formulations

BRANDT Reaction 2-9-6 LS

2-9-6 1.0% S

Derived from monoammonium phosphate, potassium nitrate, potassium sulfate

BRANDT Reaction K LS

1-0-7 1.0% S

Derived from potassium nitrate, potassium sulfate and muriate of potash

BRANDT Reaction P LS

2-14-0

Derived from monoammonium phosphate, phosphoric acid

BRANDT Reaction S LS

8-0-0 9.0% S

Derived from ammonium sulfate, urea

Dry Formulations

BRANDT Reaction S DS

21-0-0 23.0% S

Derived from ammonium sulfate, urea

N-Boost®

Nutrient Efficiency Enhancer

N-BOOST and N-BOOST 5 are a natural microbial based enhancer that boosts nutrient utilization from both liquid and solid fertilizer programs. It enhances chloroplast activity which allows the crop to efficiently use available resources to improve yield. These products help boost nutrient uptake, which in turn enhances new plant growth and yield.

Key Advantages

- Increased plant growth and taller, fuller, more vigorous crop
- Increased yield, weight, length and ear-fill
- Compatible with most pesticides and herbicides
- Earlier and increased silking

N-Boost

NON-PLANT FOOD INGREDIENTS:

Yeast extract 0.004%
Bacterial fermentation extracts 0.024%
Adenine compounds >3x10⁻⁵

N-Boost 5

5-0-0 5.0% N

Derived from urea

Chelated & Complexed Nutrients

BRANDT Sequestar

BRANDT Agra Sol

BRANDT GH



BRANDT® Sequestar®

Chelated Nutrients

BRANDT SEQUESTAR delivers high quality, fully chelated EDTA, EDDHA and DTPA micronutrients to the plant in an immediately available form. The formulations can be mixed directly into growing media, applied as a soil drench or added to fertigation systems. They are compatible with most fertilizers and pesticides.

Liquid Formulations

BRANDT Sequestar 3% Ca

3.0% Ca

Derived from calcium EDTA

BRANDT Sequestar 7.5% Cu

7.5% Cu

Derived from copper EDTA

BRANDT Sequestar 4.5% Fe EDTA

4.5% Fe

Derived from iron EDTA

BRANDT Sequestar 2.5% Mg

2.5% Mg

Derived from magnesium EDTA

BRANDT Sequestar 6% Mn

6.0% Mn

Derived from manganese EDTA

BRANDT Sequestar 9% Zn

9.0% Zn

Derived from zinc EDTA

BRANDT Sequestar Corn Mix

0.5% Cu | 0.5% Mn | 4.5% Zn

Derived from copper EDTA, manganese EDTA and zinc EDTA

Dry Microgranule Formulations

BRANDT Sequestar 9% Ca

9.0% Ca

Derived from calcium EDTA

BRANDT Sequestar 14% Cu

14.0% Cu

Derived from copper EDTA

BRANDT Sequestar 6% Fe EDDHA

6.0% Fe

Derived from ferric EDDHA

BRANDT Sequestar 11% Fe DTPA

11.0% Fe

Derived from iron DTPA

BRANDT Sequestar 13.2% Fe

13.2% Fe

Derived from iron EDTA

BRANDT Sequestar 5.5% Mg

5.5% Mg

Derived from magnesium EDTA

BRANDT Sequestar 13% Mn

13.0% Mn

Derived from manganese EDTA

BRANDT Sequestar 14% Zn

14.0% Zn

Derived from zinc EDTA

BRANDT Sequestar Mix-All Chelate

0.5% B | 0.3% Cu | 7.5% Fe | 4.0% Mn | 0.2% Mo
0.5% Zn

Derived from odium borate, copper EDTA, iron EDTA, manganese EDTA, sodium molybdate and zinc EDTA

BRANDT Sequestar chelated nutrients approved for use with select Dicamba and 2, 4-D Herbicides

Product	XtendiMax	Engenia	Enlist Duo
BRANDT Sequestar 4.5% Fe EDTA			■
BRANDT Sequestar 6% Mn	■*	■	■
BRANDT Sequestar 9% Zn			■

To see a complete list of formulations approved for use with dicamba and 2,4-D visit: Brandt.co/TankMixApprovals

*with approved DRA



BRANDT Agra Sol

Dry Lignosulfonates

BRANDT AGRA SOL dry soluble powder chelated micronutrients are the most economical way to supply micronutrients to plants. They mix easily with water and can be applied alone, with non-phosphorus liquid fertilizers or added to dry granular fertilizers.

BRANDT Agra Sol 15% Fe

15.0% Fe

Derived from iron lignosulfonate

BRANDT Agra Sol 15% Mn

15.0% Mn

Derived from manganese lignosulfonate

BRANDT Agra Sol Micro Mix

5.0% Mg | 0.5% B | 1.5% Cu | 4.0% Fe | 4.0% Mn

0.1% Mo | 1.5% Zn

Derived from magnesium sulfate, sodium borate, copper lignosulfonate, iron lignosulfonate, manganese lignosulfonate, sodium molybdate, zinc lignosulfonate

BRANDT Agra Sol Vegetable Mix

3.0% Mg | 0.3% B | 7.0% Fe | 1.2% Mn | 0.006% Mo

1.2% Zn

Derived from magnesium lignosulfonate, sodium borate, iron lignosulfonate, manganese lignosulfonate, sodium molybdate, zinc lignosulfonate

BRANDT Agra Sol 15% Zn

15.0% Zn

Derived from zinc lignosulfonate

BRANDT Agra Sol ZMFB

1.8% B | 2.7% Fe | 5.4% Mn | 5.4% Zn

Derived from sodium borate, iron lignosulfonate, manganese lignosulfonate, zinc lignosulfonate

BRANDT GH

Liquid Glucoheptonates

BRANDT GH liquid glucoheptonates are naturally derived, biodegradable complexed micronutrients. They contain natural sugars that help formulations adhere to the plant, which makes BRANDT GH especially effective as a foliar application. BRANDT GH formulations mix easily with water and may also be used through fertigation or used as a soil application. BRANDT GH formulations are compatible with most pesticides and non-phosphate based fertilizers.

BRANDT GH Cal-N

8-0-0 8.0% Ca

Derived from urea, calcium nitrate

BRANDT GH Copper

5.0% Cu

Derived from copper sulfate

BRANDT GH Iron

5.0% Fe

Derived from ferrous sulfate

BRANDT GH Magnesium

4.0% Mg

Derived from magnesium nitrate

BRANDT GH Manganese

5.0% Mn

Derived from manganese sulfate

BRANDT GH Molybdenum

5.0% Mo

Derived from molybdenum nitrate

BRANDT GH Zinc

7.0% Zn

Derived from zinc sulfate



Humic Acids



BRANDT® Bio-Master®

1.5% Mg | 4.0% S | 0.16% B | 3.5% Fe | 0.75% Mn
0.003% Mo | 0.75% Zn | 0.5% Humic Acid

Derived from magnesium sulfate, sodium borate, iron EDTA, ferrous sulfate, manganese sulfate, sodium molybdate, zinc sulfate and leonardite

A concentrated liquid plant food that contains a robust nutrient package and humic acid. It may be used from seed germination up until harvest and is compatible with most non-alkaline fungicides, insecticides and fertilizers.

BRANDT Leonardite - Coarse Granular

50.0% Humic Acid



Derived from leonardite ore

50% humic acid granular that is designed to be mixed with dry granular fertilizers, soil amendments, potting soil or any other bulk substrate that is already being applied. Approved for organic production.

BRANDT® Uptake® 12

0-0-3 | 12.0% Humic Acid

Derived from potassium hydroxide, leonardite

12% liquid humic acid formulation with a spike of nitrogen. Supplies organic matter in a convenient, ready-to-use form. May be applied as a foliar or through fertigation.

BRANDT Uptake Advanced

6.0% Humic Acid

Derived from leonardite ore

6% liquid humic acid derived from leonardite ore. Low acid formulation supplies organic matter to turf in a convenient, ready-to-use form. Compatible with most adjuvants, pesticides and fertilizers including 4-0-8, phosphoric acid, UAN solutions, and non-chelated micronutrients, including iron. May be applied as a foliar or through fertigation.

BRANDT Uptake Starter

4-0-1 | 4.0% S | 10.0% Humic Acid

Derived from ammonium sulfate, potassium hydroxide, leonardite ore

A highly charged, modified humic acid liquid that supplies organic matter in a convenient, ready-to-use form. It is designed for use with starter fertilizer solutions, including high phosphate solutions, such as 11-37-0.



Specialty Liquid Nutritionals



BRANDT 30-K

0-0-30

Derived from potassium carbonate

BRANDT 4-0-8

4-0-8 2.0% Ca 0.25 % Mg 0.0008% Mo

Derived from potassium nitrate, calcium nitrate, magnesium nitrate and sodium molybdate

BRANDT Converge SRN 30-0-0

30-0-0

Derived from triazone, methylene urea and urea

*18% Slowly available nitrogen from triazone and methylene urea

Contains slowly available nitrogen. Promotes root development and plant vigor.

BRANDT Liquid Boron

10.0% B

Derived from boron ethanolamine

BRANDT Mag Nitrate

7-0-0 6.0% Mg

Derived from magnesium nitrate

BRANDT MKS

0-0-4 2.1% Mg 3.2% S

Derived from sulfate of potash magnesia

BRANDT Plant Start

8-27-2 0.001% Mo

Derived from ammonium phosphate, potassium polyphosphate and sodium molybdate

27% liquid phosphorus fertilizer. Promotes early growth and healthy root systems. Recommended as a supplement in well-balanced nutrition programs.

BRANDT Sulfur

12-0-0 26.0% S

Derived from ammonium thiosulfate

Clear Advantage®

5-0-1 0.05% B 0.75% Mn 0.001% Mo 0.75% Zn

Derived from potassium nitrate, urea, sodium borate, manganese EDTA, sodium molybdate and zinc EDTA

A foliar fertilizer that contains N, K, B, Mn, Mo and Zn for optimal plant strength and vigor.



Sustainable Nutrition

BRANDT Organiplex

BRANDT Organics



NEW - BRANDT® Organiplex®

Liquid Amino Acid Complexed Nutrients

BRANDT ORGANIPLEX amino acid complexed nutrients provide sustainable, highly efficient nutrients. Amino acids are essential to plant development and play a key role in plant response to stress.



BRANDT Organiplex 8% Ca

8.0% Ca

Derived from calcium amino acid complex

BRANDT Organiplex MicroMix

2.0% Fe | 2.0% Mn | 2.0% Zn

Derived from iron amino acid complex, manganese amino acid complex, zinc amino acid complex

BRANDT Organiplex 4% Fe

4.0% Fe

Derived from iron amino acid complex

BRANDT Organiplex 4% Mn

4.0% Mn | 0.25% B

Derived from manganese amino acid complex, sodium borate

BRANDT Organiplex 3% Mg

3.0% Mg | 0.25% B

Derived from magnesium amino acid complex, sodium borate

BRANDT Organiplex 6% Zn

6.0% Zn

Derived from zinc amino acid complex



BRANDT Organics

Liquid Lignosulfonate Complexed Nutrients

BRANDT ORGANICS lignosulfonates provide a sustainable and economical alternative to synthetic chelates. Lignosulfonates have a small molecular size, which allows for efficient nutrient absorption and uptake.



BRANDT Organics Crop Mix

1.0% Mg | 4.0% S | 1.0% Fe | 1.0% Mn | 3.0% Zn

Derived from ferrous sulfate, magnesium sulfate, manganese sulfate and zinc sulfate; complexed with lignosulfonate

BRANDT Organics Desert Crop Mix

4.5% S | 2.0% Fe | 2.0% Mn | 4.0% Zn

Derived from ferrous sulfate, manganese sulfate and zinc sulfate, complexed with lignosulfonate.

BRANDT Organics Hort Mix

1.0% Mg | 2.5% S | 0.35% B | 0.03% Co | 0.15% Cu

1.5% Fe | 0.45% Mn | 0.04% Mo | 0.5% Zn

Derived from magnesium sulfate, cobalt sulfate, copper sulfate, ferrous sulfate, manganese sulfate and zinc sulfate, complexed with lignosulfonate; sodium borate and sodium molybdate.

BRANDT Organics Tree & Vine Mix

2.5% S | 0.5% B | 0.2% Cu | 1.5% Fe | 0.5% Mn

2.5% Zn

Derived from copper sulfate, ferrous sulfate, manganese sulfate and zinc sulfate, complexed with lignosulfonate; and sodium borate

BRANDT Organics 5% Cu

2.5% S | 5.0% Cu

Derived from copper sulfate, complexed with lignosulfonate

BRANDT Organics 5% Fe

3.0% S | 5.0% Fe

Derived from ferrous sulfate, complexed with lignosulfonate



BRANDT Organics 6% Ca

6.0% Ca

Derived from calcium chloride

BRANDT Organics 4% Mg

4.0% Mg | 5.0% S

Derived from magnesium sulfate, complexed with lignosulfonate

BRANDT Organics 7% Mn

4.0% S | 0.4% Fe | 7.0% Mn

Derived from ferrous sulfate and manganese sulfate, complexed with lignosulfonate.

BRANDT Organics 7% Zn

3.5% S | 7.0% Zn

Derived from zinc sulfate, complexed with lignosulfonate

BRANDT Organics 10% Zn

5.0% S | 10.0% Zn

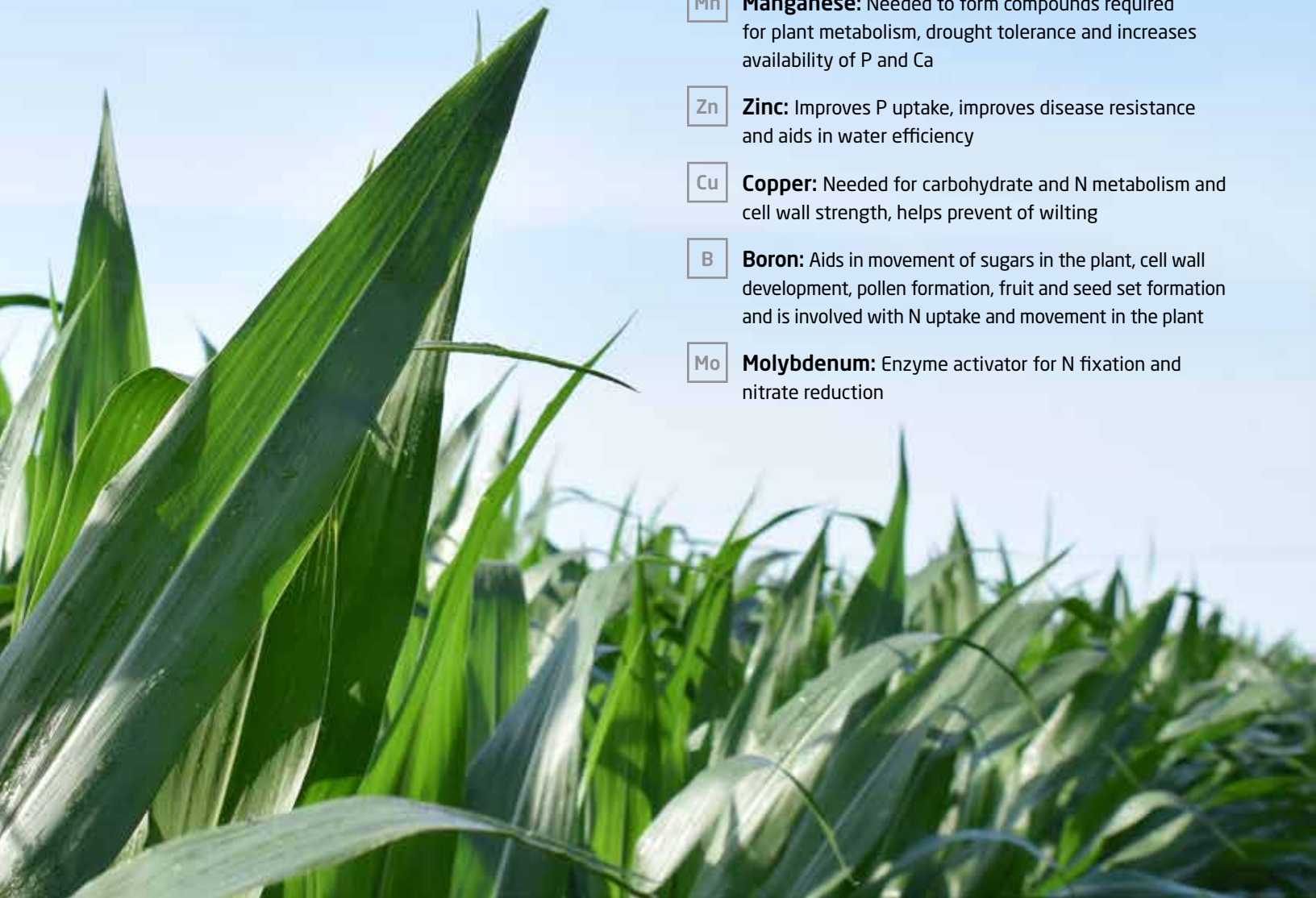
Derived from zinc sulfate, complexed with lignosulfonate

Factors That Limit Yield

Two common factors that can limit yield are nutrient deficiencies and stress conditions. To prevent and correct these issues, and optimize yield, it is essential to supply crops with the right nutrients, at the right time, in the right form.

BRANDT nutrients treat and prevent deficiencies during the growing season and provide the nutrient elements plants need to carry out essential physiological processes. Supplying the right nutrients at the right time also improves plant response to stress.

- Ca Calcium:** Strengthens cell wall against disease and pests, increases fruit set, is involved in N metabolism and is essential for cell division and formation
- Mg Magnesium:** Primary constituent of the chlorophyll molecule, improves utilization and mobility of P, increases Fe utilization and influences earliness and uniformity of maturity
- S Sulfur:** Aids in seed production, helps develop enzymes and vitamins and increases efficiency of N used by plants
- Fe Iron:** Acts as an oxygen carrier, is needed for production of chlorophyll and plays a role in energy transfer
- Mn Manganese:** Needed to form compounds required for plant metabolism, drought tolerance and increases availability of P and Ca
- Zn Zinc:** Improves P uptake, improves disease resistance and aids in water efficiency
- Cu Copper:** Needed for carbohydrate and N metabolism and cell wall strength, helps prevent of wilting
- B Boron:** Aids in movement of sugars in the plant, cell wall development, pollen formation, fruit and seed set formation and is involved with N uptake and movement in the plant
- Mo Molybdenum:** Enzyme activator for N fixation and nitrate reduction



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