

BRANDT® EnzUp™ Zn

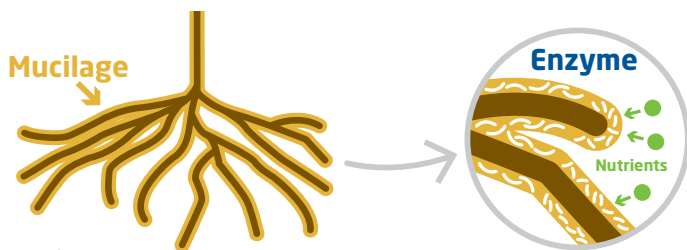
# Concentrated Liquid Enzyme and Nutrient Solution

BRANDT ENZUP ZN is a concentrated, proprietary liquid enzyme and nutrient solution designed for use alone or with in-furrow or banded starter fertilizer applications to boost nutrient efficacy.

It is an excellent tool for improving soil health and enhancing yield, boosting soil microbial activity and getting plants off to a strong start early in the season. BRANDT ENZUP ZN rapidly disperses 100-1200x more enzymes than what is naturally present in the soil, which helps boost soil microbial activity and nutrient uptake. It is recommended for use on row crops including corn, cotton, sorghum and soybeans.

## Patent Pending Enzyme Technology

BRANDT ENZUP ZN rapidly disperses a high volume of two patent-pending enzymes into the soil, which interacts with the outermost layer of the roots, the mucilage layer, and creates a draw for more water and nutrients towards plant roots. The enzymes in this formulation have been stabilized using a proprietary, patented process that speeds up plant response and efficacy, making it more effective than other enzymes and microbial products.



*BRANDT ENZUP ZN enzymes interact with the outermost layer of the roots to draw in more water and nutrients towards the root zone*

## Guaranteed Analysis

0-0-0

Zinc (Zn)..... 5.0%

Derived from Zinc ethylenediaminetetraacetate.

## ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Lipase ..... 1,188 units/mL  
Mannanase ..... 101,453 units/mL

Purpose: Enzymes break down the mucilage layer of roots, allowing increased uptake of nutrients and water by the crop. They act as catalysts for the breakdown of organic matter in the soil, releasing plant available nutrients.

## Key Benefits BRANDT ENZUP ZN

- Increases water and nutrient uptake
- Reduces rates of NPK starter fertilizers needed
- Optimizes NPK starter application efficacy by enhancing and speeding up the plant's nutrient uptake and metabolism
- Delivers 100-1200x more enzymes than what is naturally present in soil
- Formulations rapidly diffuses in the soil and performs consistently across varying soil types
- Naturally derived, non-toxic, green technology

## The Importance of Enzymes in Plant Health

Enzymes are small 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:

- Nitrogen fixation and conversion
- Urea and organic matter breakdown and availability
- Carbon cycling
- Pesticide degradation

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# BRANDT EnzUp Zn

## 2017 Field Trials

**Corn**  
MS, 2017 (bu/ac) 9.4 Advantage



**Corn**  
NC, 2017 (bu/ac) 6.2 Advantage



**Corn**  
NC, 2017 (bu/ac) 10.1 Advantage



**Corn**  
IL, 2017 (bu/ac) 6.6 Advantage



## Application and Use

**Starter Application:** Apply BRANDT ENZUP ZN at a rate of 1 quart per acre in-furrow or 2x2 banded, either alone or tank mixed with NPK fertilizers. Follow University or local agronomist recommendations for maximum salt content in-furrow for 2x2 for various crops and hybrids.

**Fertigation:** Apply BRANDT ENZUP ZN at a rate of 1 quart per acre in the active root zone or near the seed.

## Enzymes vs. Microbes: How BRANDT ENZUP ZN Stacks Up

BRANDT ENZUP ZN rapidly disperses a high volume of patent-pending enzymes into the soil, which acts as a catalyst to interact with mucilage root layer allowing increased uptake of nutrients and water by the crop. They also breakdown organic matter in the soil, releasing plant available nutrients. The enzymes in this formulation have been stabilized using a proprietary, patented process that speeds up plant response and efficacy, making it more effective than other enzymes and microbial products.

BRANDT Enzup  
Enzymes  
Microbes

Are live bugs in a jug	■	■
They have a high death rate and are wiped out during harvest and tilling	■	■
Require 20 + nutrients, optimal pH, organic matter and salt	■	■
Require a lot of time (months) to build up microbial numbers	■	■
Rapid response, as enzymes are active immediately in soil	■	■
Delivers 100-1200x more enzymes to natural soil	■	■
Diffuses fast in soil, past the roots, for greater area of effect	■	■
Perform consistently across soil types	■	■

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