

BRANDT® EnzUp™ 12-58-0

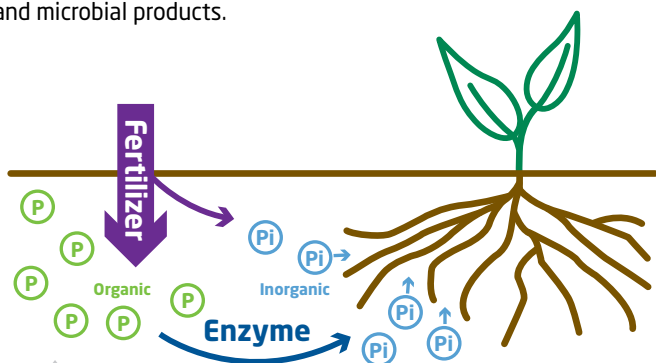
# Concentrated Liquid Phosphate Releasing Enzyme and Nutrient Solution

BRANDT ENZUP 12-58-0 is a concentrated, proprietary liquid enzyme and NPK nutrient solution designed for use with drip 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 12-58-0 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 specialty crops including melons, peppers and tomatoes.

## Patent Pending Enzyme Technology

BRANDT ENZUP 12-58-0 rapidly disperses a high volume of patent-pending phosphate releasing enzymes into the soil, which acts as a catalyst to convert tied up organic phosphates in the soil into more soluble and bioavailable phosphates for plant and microbe use. The phosphate releasing enzyme 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 12-58-0 enzymes convert tied up organic phosphates in the soil into more soluble and bioavailable phosphates for better plant uptake

## Guaranteed Analysis

12-58-0

Total Nitrogen (N).....	12.0%
12.0% Ammoniacal Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	58.0%

Derived from mono ammonium phosphate.

## ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Phosphatase.....40 units/mL

## Key Benefits BRANDT ENZUP 12-58-0

- Optimizes phosphorus application efficacy by enhancing and speeding up the plant's phosphate 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 12-58-0

## 2017 Field Trials

**Tomato**  
NC, 2017 (lbs/ac) **2534.5** Advantage



**Tomato**  
FL, 2017 (lbs/ac) **3637.4** Advantage



**Pepper**  
NC, 2017 (lbs/ac) **5775.5** Advantage



**Cucumber**  
GA, 2017 (lbs/ac) **4648.8** Advantage



**Cantaloupe**  
NC, 2017 (lbs/ac) **927.1** Advantage



## Application and Use

Dissolve 1 to 2 lbs of BRANDT ENZUP 12-58-0 per gallon of water. High concentrations of BRANDT ENZUP 12-58-0 may require warm water to ensure complete dissolution.

Initial application rates should be 7 to 10 lbs per acre, secondary application rates of 2.5 to 5 lbs may be applied for additionally if needed. Best results are achieved with placement in the actively growing root zone. The use of acid resistant pumps when injecting this materials is advised.

## Enzymes vs. Microbes: How BRANDT ENZUP 12-58-0 Stacks Up

BRANDT ENZUP 12-58-0 rapidly disperses a high volume of patent-pending enzymes into the soil, which acts as a catalyst to convert tied up organic phosphates in the soil into more soluble and bioavailable phosphates for plant and microbe use. 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.

	Microbes	BRANDT EnzUp Enzymes
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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