

# Enzyme-Driven Nutrient Technology

BRANDT EnzUp Mn is a liquid enzyme and nutrient formulation built on patented BRANDT EnzUp technology. It delivers targeted enzymes and manganese to improve nutrient availability and root-zone activity by breaking down complex organic materials in the soil. This process helps release nutrients for plant uptake while supporting microbial activity and root development.

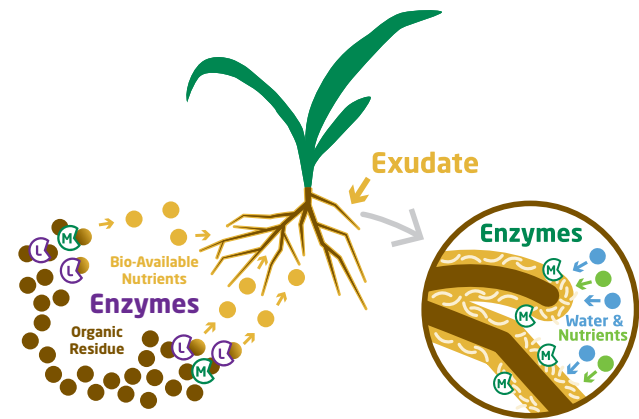
## Key Benefits of BRANDT EnzUp Mn

- **Enzyme-Driven Nutrient Release:** Targeted enzymes break down complex organic compounds in the soil, releasing nutrients such as phosphorus and nitrogen into plant available forms
- **Improved Nutrient Availability:** Converts bound or unavailable nutrients into forms that can be more readily absorbed by plant roots
- **Enhanced Root-Zone Activity:** Supports a more active rhizosphere by increasing the availability of carbon sources and nutrients
- **Supports Microbial Activity:** Released sugars and nutrients serve as a source for beneficial soil microbes, contributing to overall soil biological function
- **Consistent Performance Across Soil Types:** Non-living enzyme technology provides reliable activity without dependence on environmental conditions

## Enzyme Functions:

**Mannanase enzyme** - breaks down starches in the exudate that surrounds the outermost layer of the root tips. This draws water and nutrients to the root zone and releases sugars to the plant. This boosts root growth and increases microbial activity.

**Lipase enzyme** -- its primary function is to break down lipids in root exudates and organic residue in the soil allowing for better water flow and nutrient uptake by the roots.



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## Guaranteed Analysis

Manganese (Mn) . . . . .	3.0%
3.0% Chelated manganese	

## ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Lipase . . . . .	3.1 x 10 <sup>3</sup> µUnits/mL
Mannanase . . . . .	5.5 x 10 <sup>5</sup> µUnits/mL

## Application Recommendations

### Soil Application

*Field and Row Crops:* 1 quart per acre in furrow or banded either as a stand alone or in combination with liquid NPK starter fertilizers at planting or 1 quart per acre banded in the strip till not more than 2 weeks before planting. For side-dress applications apply prior to or during peak nutrient uptake needs at 1 - 2 qt/ac in a minimum 2.5 gal/ac of water or with NPK liquid fertilizers.

*Vegetable Crops (brassicas, cucurbits, fruiting and leafy):* 3 quarts per acre at planting or in transplant solution applied in the root zone through fertigation.

*Potato, Sweet Potato:* 2-3 quarts per acre in furrow or banded either as a stand alone or in combination with liquid NPK starter fertilizers.

*Fruits, Trees and Vines:* 3 quarts per acre delivered in the root zone at the time of planting or during growth stages through fertigation. For individual trees or plants, the product may be diluted as above or sprinkled directly on the soil uniformly under the plant's drip line, then watered in.

Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

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