



## A BIOLOGICAL FARM MANAGEMENT SYSTEM (BFMS™) GUIDE FOR: Grapes

### PLANTING:

Root dip new vines before planting in a solution of one (1) pound of **BioGENESIS I™** and 12.5 oz. **PEPZYME M™** in 20 gallons of water. For best results, soak roots in solution for up to twelve hours before planting.

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Prepare soil by applying **BioGENESIS I™** at a rate of one (1) pound per surface acre and **PEPZYME M™** at a rate of 12.5 oz. per surface acre.

### SOIL TREATMENT FOR ESTABLISHED VINEYARDS:

Treat rows with **BioGENESIS I™** at a rate of one (1) pound per acre and **PEPZYME M™** at a rate of 12.5 oz. per acre.

### FOLIAR TREATMENTS:

A foliar application of **Micro 5000™** foliar treatment should be applied at pre-bloom or full bloom at a rate of 2.66 oz. - 5.50 oz. per acre. Follow with **PZ 1000™** foliar treatment fourteen days later at a rate of 2.66 oz. - 5.50 oz. per acre. Subsequent foliar applications should be applied every two weeks throughout growing season and through harvest, alternating between **PZ 1000™** and **Micro 5000™**.

### FOR BEST RESULTS:

- Apply foliar in early morning or evening when temperature is below 80° F.
- Do not combine microbial products with antibiotics or materials that contain chlorides, bromine, fluorine, or elemental copper. Use in separate applications at least two days apart.
- Premix products before adding to tank if agitation systems are not mechanical.
- This protocol is intended as support for your fertility program and not as a replacement. It is designed for simplicity and compatibility with almost any fertility program. Our specific recommendations to you may vary depending on your own unique situation.

### FOR ORGANIC APPLICATIONS, PLEASE SUBSTITUTE THE FOLLOWING:

**BioGENESIS I NP™** for **BioGENESIS I™**

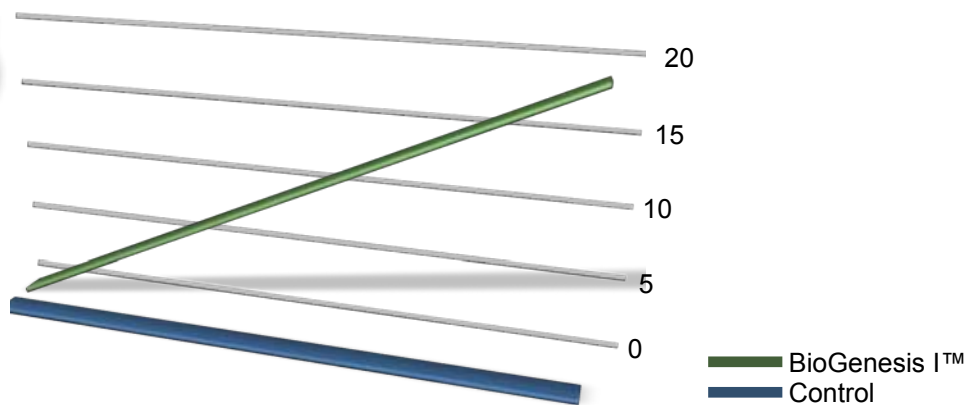
**PEPZYME CLEAR™** for **PEPZYME M™**

**MICRO 5000 ORGANIC™** for **MICRO 5000™** and **PZ 1000™**

# BFMS™ PROGRAM RESULTS



% GAIN OF PLANT EXTRACTABLE MINERALS  
IN 15 DAYS (1.26% PER DAY).  
BIOGENESIS I™ VS CONTROL



Minerals include: P, K, Mg, Ca, N, S, Zn, Mn, Fe, Cu, B



CENTRAL CALIFORNIA VINEYARD - AUGUST 2, 2001  
18 month old Pinot Noir grape vines grown under BFMS™ program. Estimated record yield of 7.4 tons per acre!

## THE ROLE OF BENEFICIAL MICROBES

- Increase mineral availability
- Promote healthy root growth
- Break down organic debris
- Break down toxins
- Improve soil tilth

