

## BENEFITS TO SOILS

Soil structure is critical for air and water movement through the soil. Vitazyme facilitates root growth and nutrient uptake in at least four ways:

1  
INCREASED ROOT GROWTH  
(MORE CHANNELS)

2  
MORE POLYSACCHARIDES  
TO GLUE PARTICLES TOGETHER

3  
IMPROVED MYCORRHIZAE ACTIVITY  
(MORE SAC-LIKE STRUCTURES)

4  
MORE EARTHWORMS  
AND THEIR CHANNELS

**Expect better  
tilth and permeability  
in your soil with Vitazyme use.**



Grape plants treated with a root drench at planting (1% Vitazyme) have less transplant shock and begin growing rapidly.

## HOW VITAZYME CAN BENEFIT YOU!

- Inexpensive, very cost-effective
- Easy-to-use
- Safe and nontoxic
- Can be seed-applied
- Can be mixed with liquid fertilizers and pesticides

*Right: Treated grapes are usually filled to the bunch tips versus untreated grapes. Note the larger fruit of Vitazyme treated plants.*



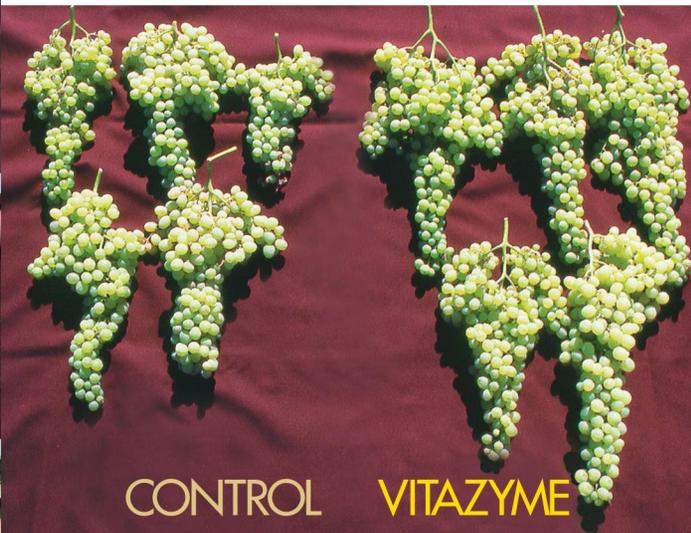
*Above: Vitazyme treated vines on an overhead California trellis system are only two years old. Right: Vitazyme can help produce crops of raisin grapes like this.*



# VITAZYME<sup>®</sup>

an All Natural Concentrate

## for GRAPES



THE NATURAL  
SOIL FERTILITY BOOSTER  
FOR HEALTHIER,  
MORE PRODUCTIVE  
CROPS AND SOILS



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## WHAT IS VITAZYME?

Vitazyme is a liquid concentrate microbially synthesized from plant materials, and then stabilized for long life. Powerful but natural biostimulants contained in the material greatly benefit plant growth and soil conditions to boost yields and profits for the farmer.



These Concord grapes in New York have responded vigorously to Vitazyme. Note the deep green color.

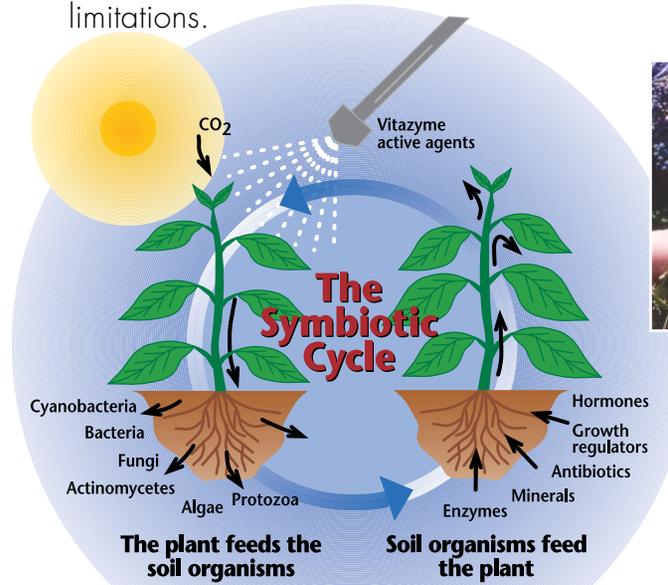
## THE PROGRAM

Vitazyme should be applied to grapes three or four times during the growing season, typically at pre-bloom cluster stretch, at BB-sized fruit, at berry softening, and about 2 weeks before harvesting. The typical rate is 13 oz/acre (1 liter/ha). The product can be sprayed with fungicides or other chemicals, or be applied through a drip irrigation system.

**Use Vitazyme along with good management practices to make your present system work even better.**

## HOW IT WORKS

Vitazyme intensifies the activity of the plant-soil system. Photosynthesis is increased, so more carbon from the air is fixed into plant tissue. Energy-rich compounds produced in the leaves by this vigorous metabolism move into the root system. Then, they move out into the soil, where billions of bacteria, algae, fungi, protozoa, and other organisms feed on this energy. The organisms, in turn, release minerals and growth stimulants for plant uptake, a beautiful symbiosis. Plant stress is reduced, removing growth and yield limitations.

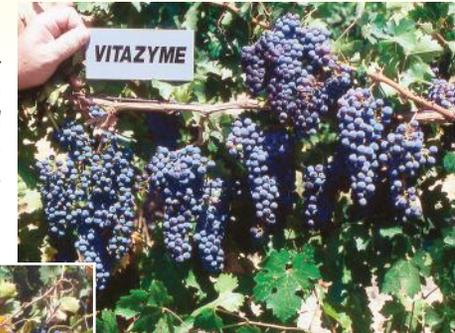


Note the larger, better-filled bunches with Vitazyme. Such yield increases are typical when the program is applied on top of usual fertility practices.

## WHAT TO EXPECT

Research studies have shown that yields and profits of agricultural and horticultural crops are increased with Vitazyme use. In addition, application of fertilizer can often be reduced. Expect increased and accelerated plant growth, improved quality and reduced plant stress.

Right: Cabernet Sauvignon grapes treated three times with Vitazyme produced abundant, full bunches.



Untreated Cabernet Sauvignon grapes reveal a good crop, but compare to the Vitazyme treated grapes above.

Vitazyme increases the yield and sugar content of grapes, as shown in this replicated California raisin study. Note that Vitazyme outyielded the standard Ethrel treatment.

