



GRAPES ♦ TREE NUTS ♦ STONE FRUIT ♦ POME FRUIT

### BENEFITS OF USING BIOPATH

- Improved nutrient use efficiency – solubilization, uptake and utilization of applied fertilizer and nutrients in the soil bank.
- Enhanced root growth and plant vigor.
- Optimized yield potential and improved harvest quality.
- Inoculation is effective in a broad scope of environments (soil types and geographic regions).
- Ease of application – no special storage conditions and flexibility with application.

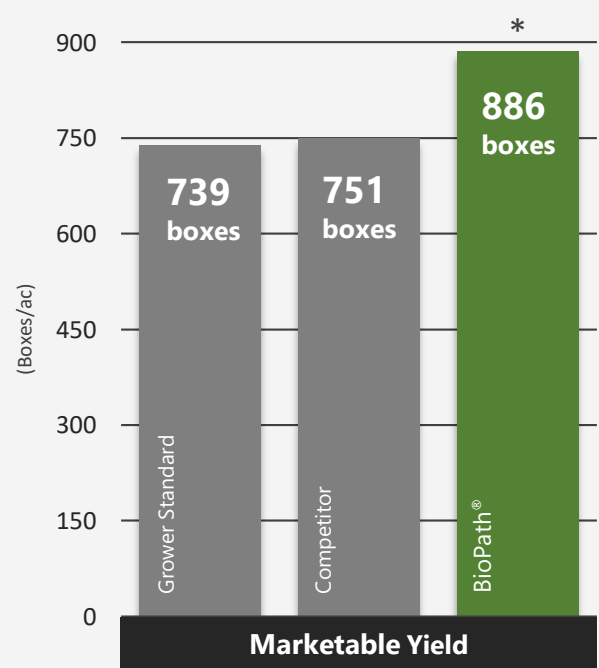
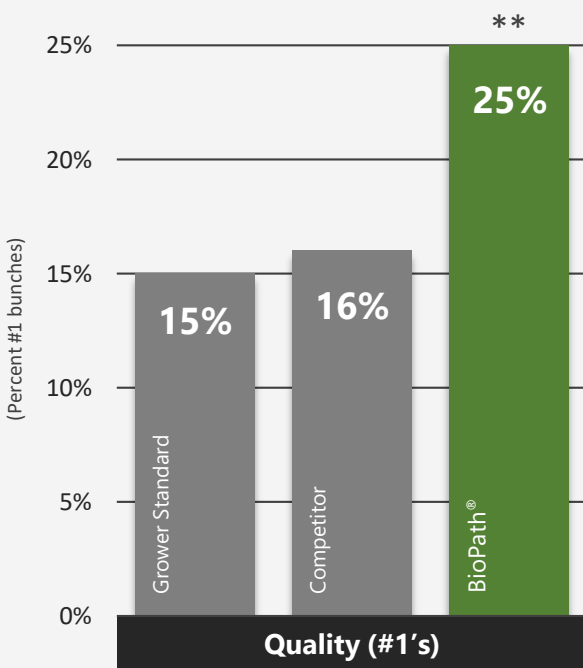
### IMPROVED FERTILIZER USE EFFICIENCY AND PLANT GROWTH

BioPath is a microbial inoculant containing highly effective bioactives of PGPR – Plant Growth Promoting Rhizobacteria – that provide multiple modes of action for enhanced plant growth.

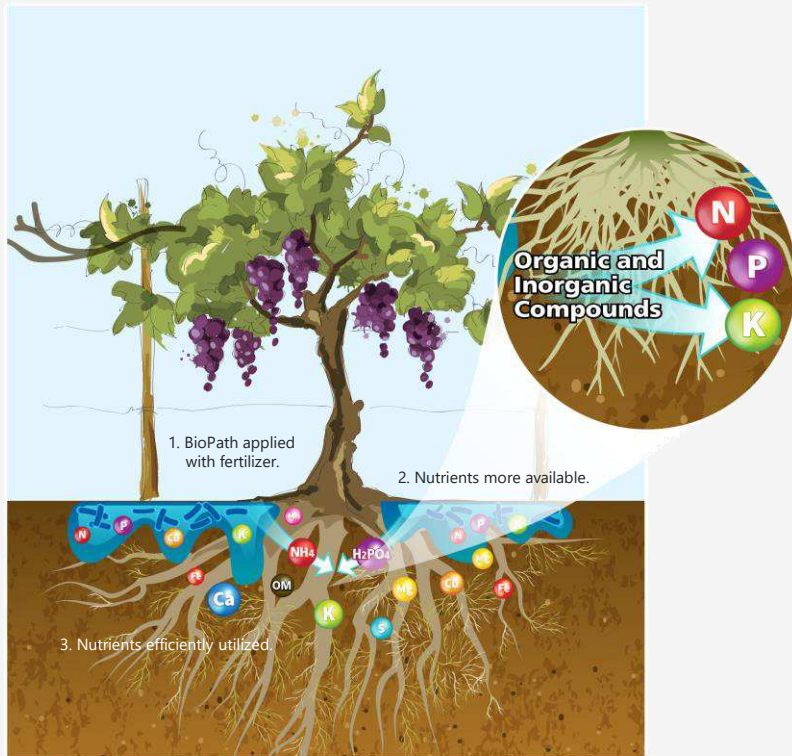
Nutrient uptake is improved by greater root volume and nutrient solubilizing enzymes and organic acids. This availability of key nutrients encourages optimal plant growth which can lend to greater leaf area, canopy development, and increased chlorophyll content.

This results in increased production of starches, sugars and bio solids each of which contribute to improved harvest quality and yield.

### Enhance harvest quality and improve marketable yield with BioPath®



Results obtained from independent third party research conducted in central California – 2017. Grape variety: Vintage Red, 12 year established vineyard. All treatments received grower standard fertility. Marketable yield reflects cumulative total of 3 harvests. All products soil applied thru drip 2 weeks pre-bloom, thru spray at petal fall, then thru spray monthly x 4 applications thereafter. Data significantly different at \* p=0.10, \*\* p=0.05.



## HOW BIOPATH® TECHNOLOGY WORKS

1. BioPath applied with fertilizer at key growth stages.
2. The bioactives in BioPath – *Bacillus subtilis*, *Bacillus methylotrophicus* and *Bacillus licheniformis* – produce enzymes and organic acids that improve the solubilization of fertilizer into plant available forms, and release bound nutrients.
3. Bioactives in BioPath also promote a more robust root system, improving nutrient and water uptake.
4. These combined modes of action can improve photosynthetic capacity, leading to not only improved yield potential but harvest quality as well.

## USE RECOMMENDATIONS

BioPath® can be applied thru drip, spray or blended with liquid fertilizer. It is tank-mix compatible with most pesticides and nutrient solutions. Contact your distributor or Pathway BioLogic for a complete list of compatible products.

Crop	Spring Applications	Seasonal Applications
Grapes (Table & Wine)	16 oz/ac soil applied pre-bloom, and 16 oz/ac thru spray pre-bloom	16 oz/ac thru spray monthly x 4 applications
Raisins	16 oz/ac soil applied pre-bloom	16 oz/ac thru spray at bloom, then monthly x 2 applications
Tree Nuts	32 oz/ac soil applied at spring flush, then 16 oz/ac thru spray pre-bloom	16 oz/ac thru spray at bloom, then with 2 cover sprays
Pome Fruit	32 oz/ac soil applied early spring, then 16 oz/ac thru spray at pink	16 oz/ac thru spray at bloom, petal fall, then with 2 cover sprays
Stone Fruit	32 oz/ac soil applied early spring	16 oz/ac thru spray every 2 weeks thru growing season

For more information about BioPath® and other Pathway microbial solutions visit our website at [www.PathwayBioLogic.com](http://www.PathwayBioLogic.com) or contact us direct:

Email: [info@pathwaybiologic.com](mailto:info@pathwaybiologic.com) | Phone: 813-719-7284

**Important: Always read and follow label directions.** Pathway BioLogic and BioPath are trademarks of Pathway BioLogic, LLC. ©2019 Pathway BioLogic, LLC. All rights reserved.

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