SUSTAINABLE FARMING SOLUTIONS

Table Grapes - colour

VITAZYME®
an All Natural Biostimulant Concentrate

Improving colour

Activates the vine to:

- Improve maturation of grapes - Brassinosteroids, in Vitazyme, have been identified as a natural component directly involved in the maturation of grapes.
- Enhance chlorophyll production, allowing vine leaves to harness more energy from the sun
- Create larger and more efficient root system
- Improve vines defence system
- Improve vine stress tolerance

Replicated trial work in Australia and around the world shows improved colour, consistent yield and quality improvements.

Results: 20 years of research, 1000+ studies

- Enhanced colour in table grapes
- Better grape quality, consistency and shelf life
- Improved yield by 5 - 15%
- More efficient fertiliser use

"We used Vitazyme program on 3 blocks of sultana grapes and saw a dramatic difference in vine colour & growth within a few days of application."

Harness the power of nature

VITAZYME® an All Natural Biostimulant Concentrate

sustainablefarming.com.au

Some grapes are difficult to colour up

Research undertaken with Crimson Seedless, Red Globe and other varieties, has demonstrated Vitazyme helps colour development in grapes. Similar results have been achieved in Australia.

Vitazyme contains multiple components that are active at low concentrations. One of these, Brassinosteroids, are a group of natural plant hormones that are necessary for normal plant development (Davies, 2004). Brassinosteroids (BR) activity levels rise dramatically as grape berry ripening begins (University of Tasmania - Symons, 2006).

Symons found application of BR's to grape berries promoted ripening, whereas applying an inhibitor of BR biosynthesis delayed this process. Change in BR levels strongly influence ripening and grape colour.

How to use

Two programs to assist grape colour

Program 1: 1.25-1.5L/ha, 3 times
At post flowering, pre-veraison and veraison

Program 2: 2L/ha, 2 times
2 weeks prior to veraison and post veraison (14-28 days pre-harvest)

References

• Davies, C et al, Hormonal control of grape berry ripening,
• Symons, G et al, Grape berry ripening. Plant Physiology, 2006: 140; 150 - 158.

Crimson Seedless - Chilean result

Crimson Seedless colour

Grape Variety: Crimson Seedless

Experimental Design: A vineyard of Crimson Seedless grapes was divided into a control and 2 x Vitazyme treatments. The objective of the study was to evaluate Vitazyme's effects on fruit maturity, fruit yield and grape colour at harvest.

Fertiliser: Unknown

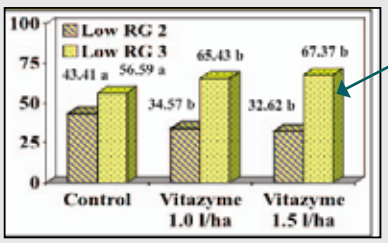
Vitazyme: Either 1.0 or 1.5L/ha for the two Vitazyme treatments before veraison, and again after veraison.

Results:

Colour - Fruit colour was determined at harvest and analysed statistically. Both Vitazyme treatments improved the development of red colour for these Crimson Seedless grapes, increasing the full RG3 values significantly above the control, and reducing the low RG2 levels below the control. Best result 1.5L/ha

Harvest Date - Vitazyme treatments harvested earlier - best result 1.5L/ha

Yield - Improved yields with Vitazyme in both treatments with best results at 1.5L/ha

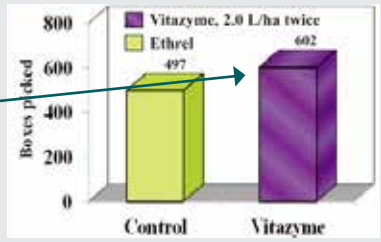


Improvement in colour -10.78% full RG3

A selection of International results

Treatment	Harvest date March 19	March 24	April 8	Total
	-------	percent of total	-------	total percent
1. Control	70.6	8.1	9.4	88.1
2. Vitazyme, 1.0 liter/ha	75.1	4.9	11.1	91.1
3. Vitazyme, 1.5 liters/ha	82.1	7.4	4.5	94.0

- **82.1% picked at first harvest with crimson seedless**
- **21% marketable yield increase with crimson seedless**
- **Improved colour in red globe - enhanced colouration by 6 days**



Information & Advice

Email admin@sustainablefarming.com.au
Phone 08 9388 3623
Web sustainablefarming.com.au

Harness the power of nature