




 BioGrow

COLOR ENHANCER

PHYSIOGROW COLOR

 Foliar Application

GUARANTEED ANALYSIS

1.0-0.0-0.0

Total Nitrogen (N)
1.0%

1.0%
Water soluble Nitrogen

Derived From: Amino Acids.

Density: 70.54 lb/ft³ (1.13 gr/ml)

PHYSIOGROW COLOR is a bioactivator formulated based on biologically active organic molecules that enhance the natural synthesis of anthocyanins, responsible for the red coloration of fruit.

In addition, **PHYSIOGROW COLOR** improves the quality post harvest of the fruit and promotes an increase in the reserves of energy molecules in the buds.

BENEFITS OF THE PHYSIOGROW COLOR APPLICATION



PROMOTES

- The red coloration of the fruit, as it promotes the production of anthocyanins



INCREASES

- The synthesis of photoassimilates
- The dry matter in the fruit
- The fruit firmness
- Carbohydrate reserves in the wood



CONCENTRATE HARVEST

- Allows you to harvest more fruits at the first harvest



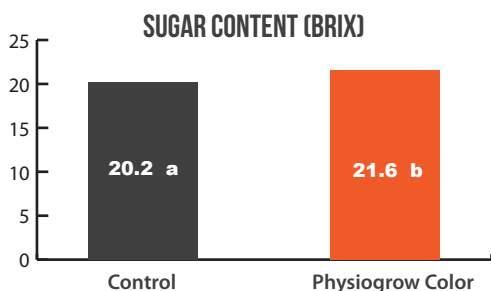
IMPROVES

- post harvest condition of the fruit

PHYSIOGROW COLOR USA TRIAL, WA, 2021- CHERRY

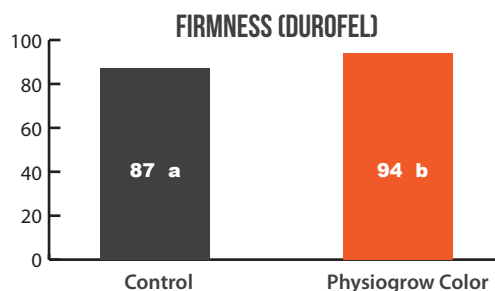
Washington, USA, 2021 Season

Sugar content, Sweetheart variety.
PHYSIOGROW COLOR compared to control



The difference between mean values displayed with the same letter is not significant according to Tukey's multiple range test at $P < 0.05$

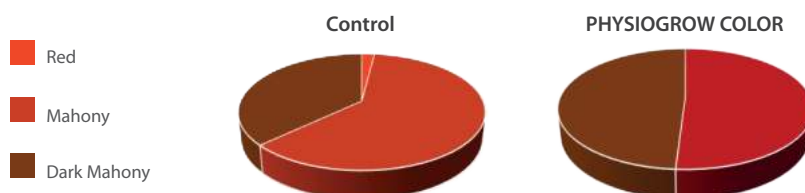
Firmness in Durofel, Sweetheart variety.
PHYSIOGROW COLOR compared to control



The difference between mean values displayed with the same letter is not significant according to Tukey's multiple range test at $P < 0.05$

COLOR DISTRIBUTION

Fruit color distribution at harvest, Sweetheart variety



PHYSIOGROW COLOR BRASIL TRIAL, PE, 2020- TABLE GRAPE VAR. BRS NUBIA

BIOCHEMICAL ANALYSIS IN BERRY AT HARVEST / **PHYSIOGROW COLOR** effect on table grapes var. Nubia BRS. Petrolina, PE. Brazil 2020

PARAMETERS	Ethephon	Physiogrow color	% Difference
Anthocyanins	4.911,9	5.889,3	19.9 %
Soluble solids (B°)	15.1	16.0	6.0%
Berry firmness	1.3	1.6	29.4%
Dry matter (gr)	11.2	23.4	108.5%

EFFECTS OF PHYSIOGROW COLOR ON THE BUNCH

PHYSIOGROW Color increases the content of anthocyanins in the berries.

PHYSIOGROW Color applications increase the sugar content and firmness of the berries

The plants treated with **PHYSIOGROW Color** presented a greater mass of dry matter in the berries and in the rachis, which favors the post-harvest condition of the bunches.

BIOCHEMICAL ANALYSIS IN LEAF, 4 DAYS AFTER LAST APPLICATION / **PHYSIOGROW COLOR** effect on table grapes var. Nubia BRS. Petrolina, PE. Brazil 2020

PARAMETERS	Ethephon	Physiogrow color	% Difference
Clorofila b (umol g-1 dry matter)	488.2	503.5	3.1 %
Total Carbohydrates (ug g-1 dry matter)	491.2	471.1	- 4.1 %
Starch (ug g-1 dry matter)	103.3	115.3	11.6 %

AT FOLIAR LEVEL

Treatment with **PHYSIOGROW Color** does not affect the concentration of chlorophyll a, but increases the concentration of chlorophyll b.

This means a higher photosynthetic capacity, increasing the efficiency of the assimilation rate of carbon, resulting in a production of carbohydrates.

AT RESERVE LEVEL

In the analysis of the shoots, the plants treated with **PHYSIOGROW Color** presented a lower concentration of total soluble carbohydrates and higher starch concentration. This means a greater efficiency of the transport of and accumulation of the molecules of photosynthesis in the organs of booking.

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LABEL



DATASHEET

