

MXCOGEL

UNIQUE HIGHLY CONCENTRATED STERILE IN GEL MYCORRHIZA

RESULTS
REPORT OF
FIELD AND
LABORATORY
TRIALS

TRIAL
PERFORMED BY
CAJAMAR
FOUNDATION

TABLE GRAPE Var. Crimson

14,6%
MORE

YIELD

12%

SWEETER

TRIAL ENDING
CONTROL



TRIAL BEGINNING

SHELF LIFE TRIAL: COLD STORAGE

TRIAL ENDING
MXCOGEL



TRIAL BEGINNING

Conclusions

- The vine's general state increases:
 - More balanced growth
- Higher yield in:
 - Average weight gain per cluster
 - Berry size and volume increase
- Higher sugar content:
 - More Brix°

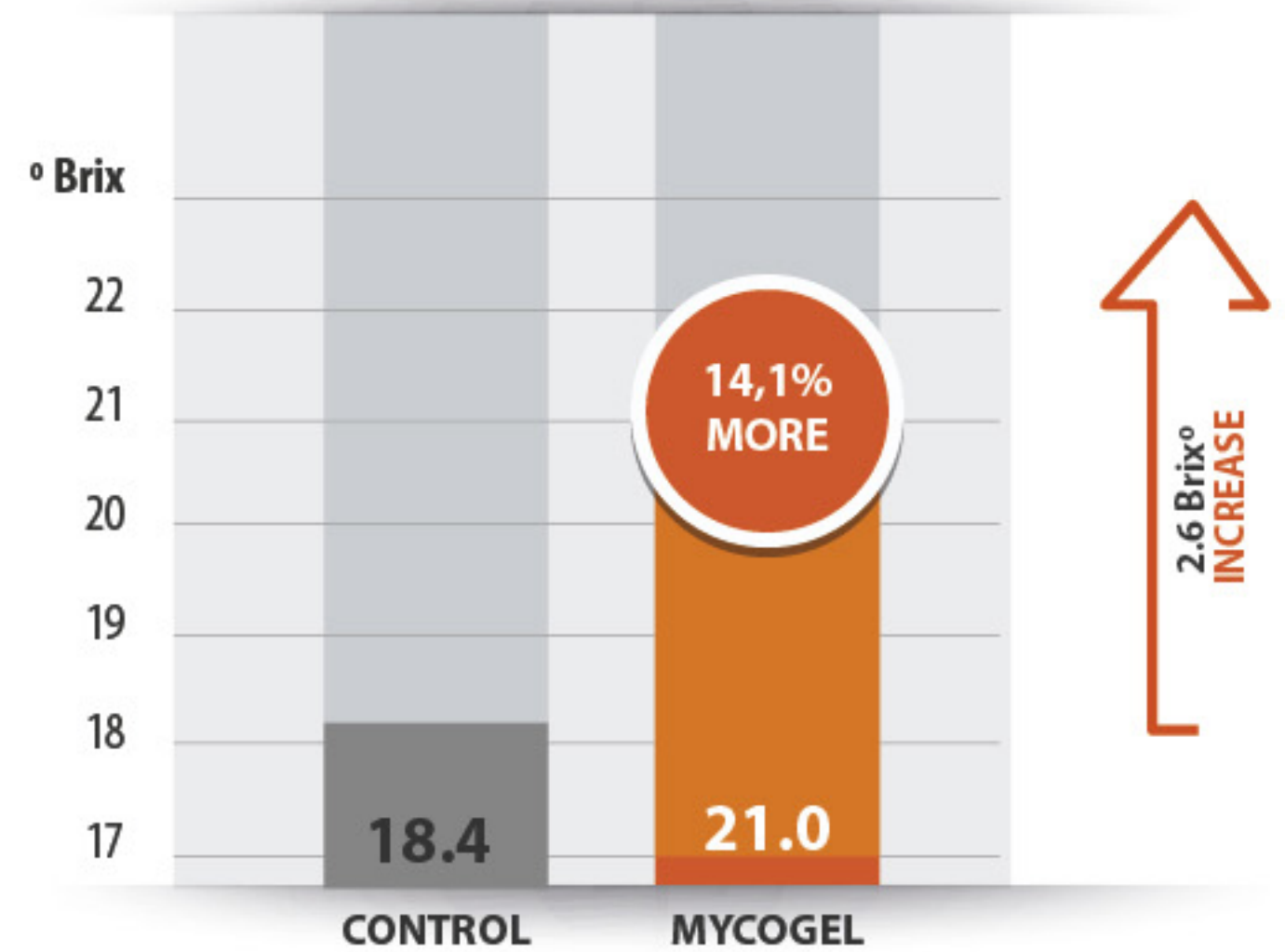
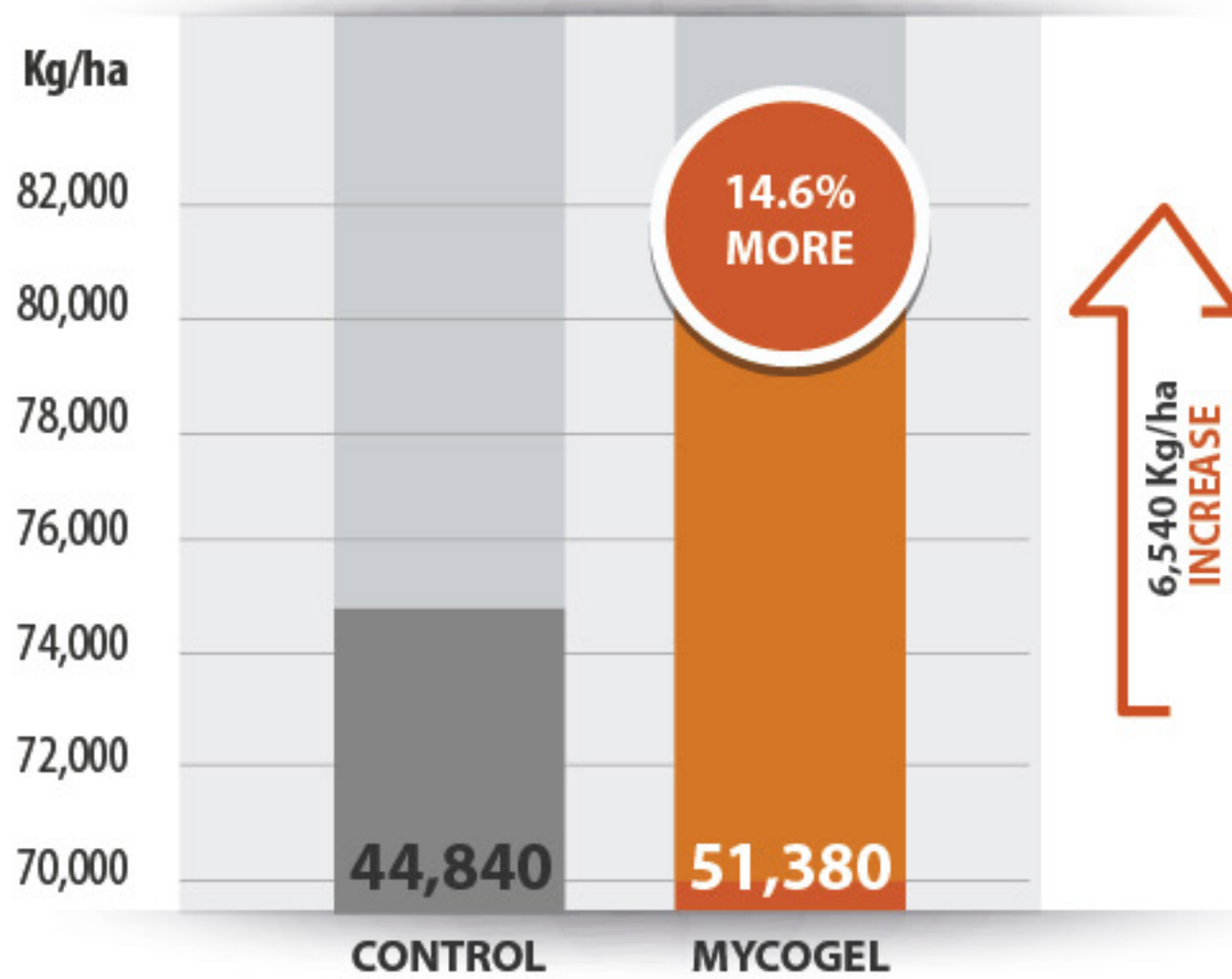


FIELD RESULTS

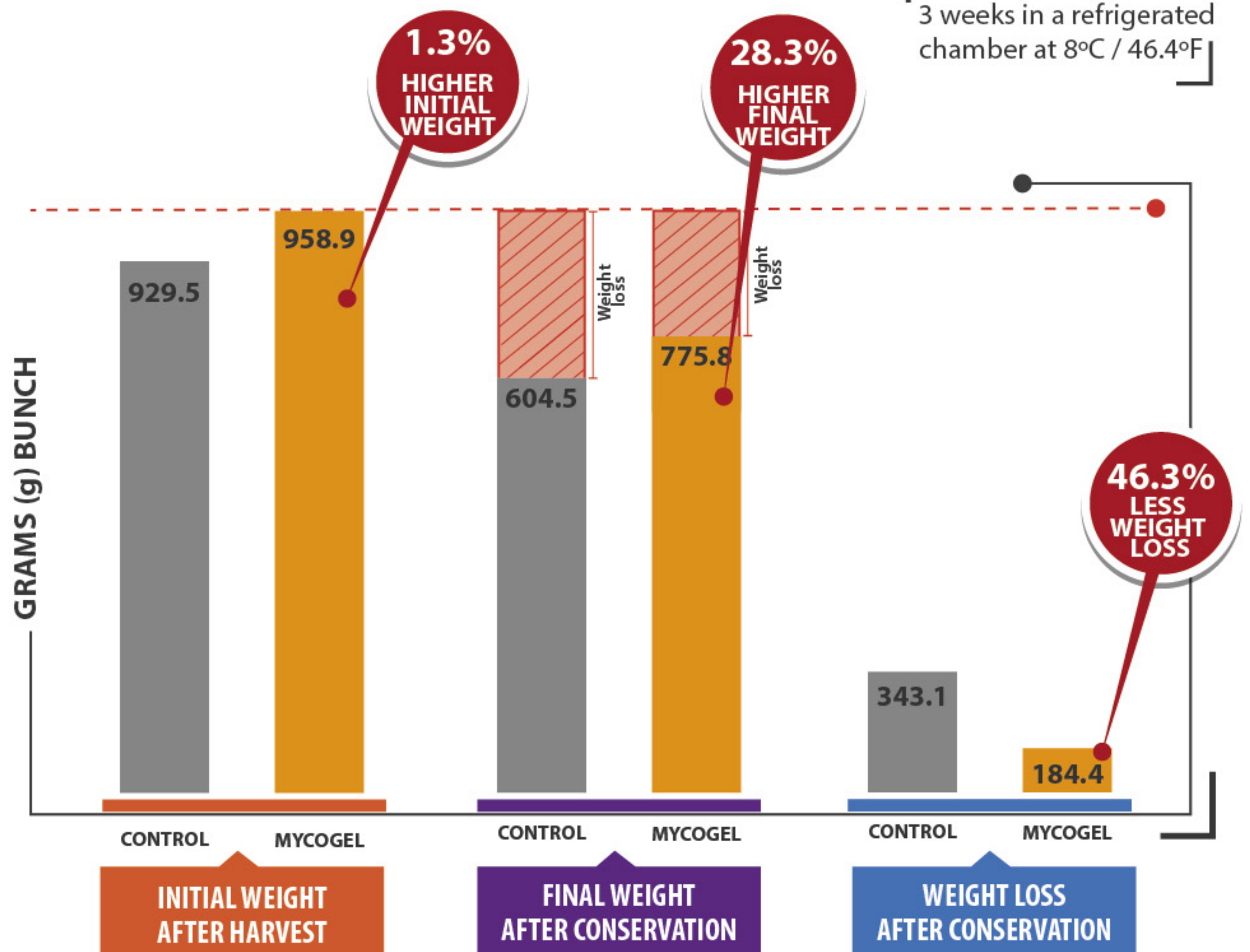
Farm in commercial variety production located in El Ejido, Almería, Spain.



- **YIELD**
• **BRIX°** increases per bunch



- **SHELF LIFE RESULT**



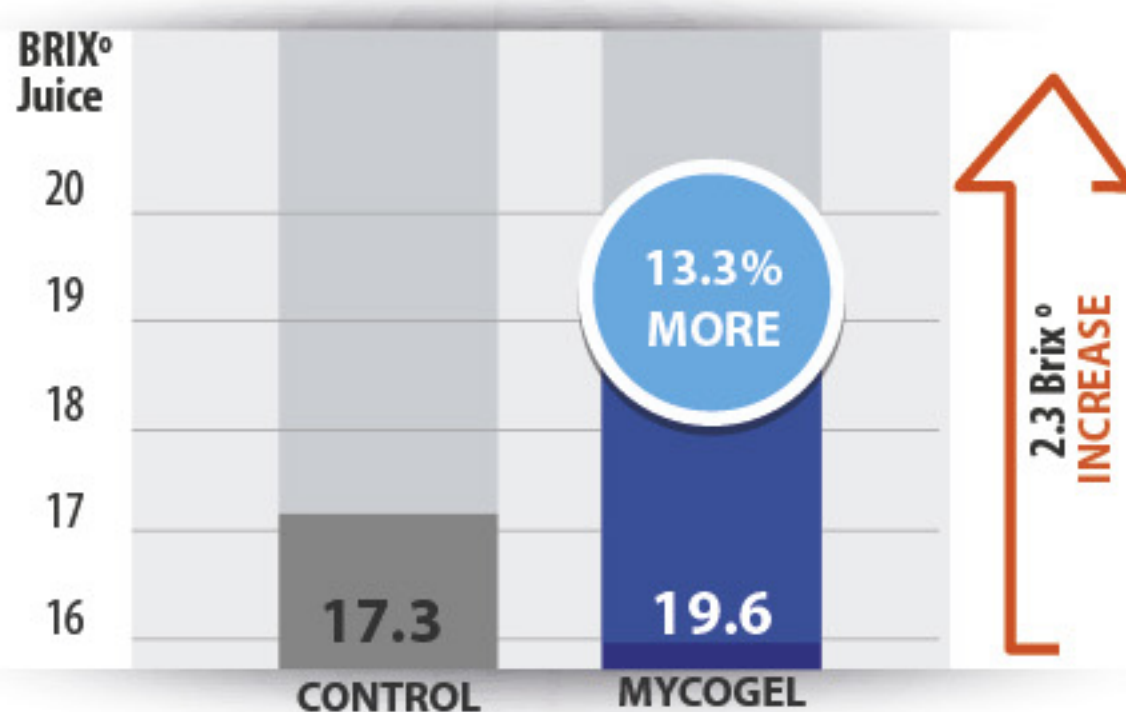


LABORATORY RESULTS

Experimental Station of Las Palmerillas – Cajamar Foundation in El Ejido, Almería, Spain.
TABLE GRAPE CRIMSON Nutritive Substances Analysis. Nutritional quality and bio-active substances.



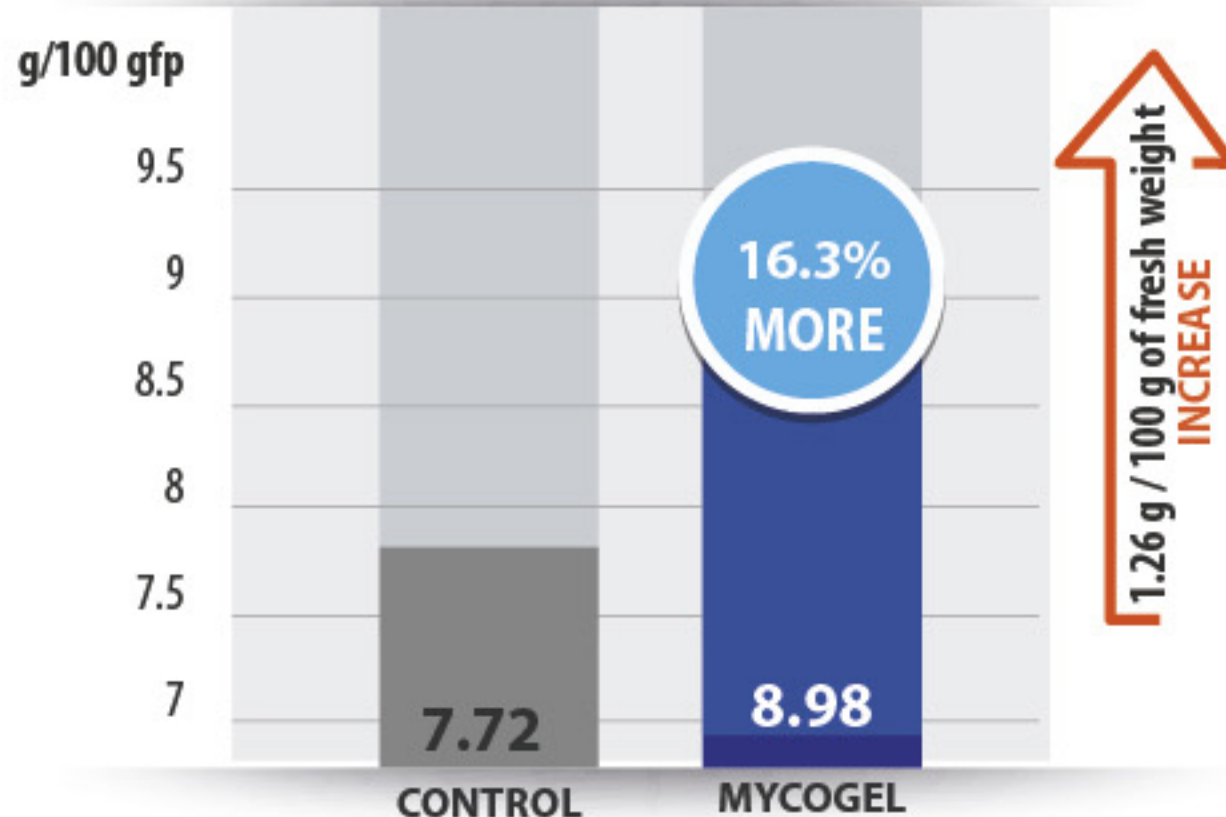
• ORGANOLEPTIC PROPERTIES INCREASE



The fruit sweetness is much appreciated with the **MycoGel** treatment, based on the significant difference in the Brix° compared to the **Control**.

TOTAL SUGAR (g glucose / 100 g of fresh weight)

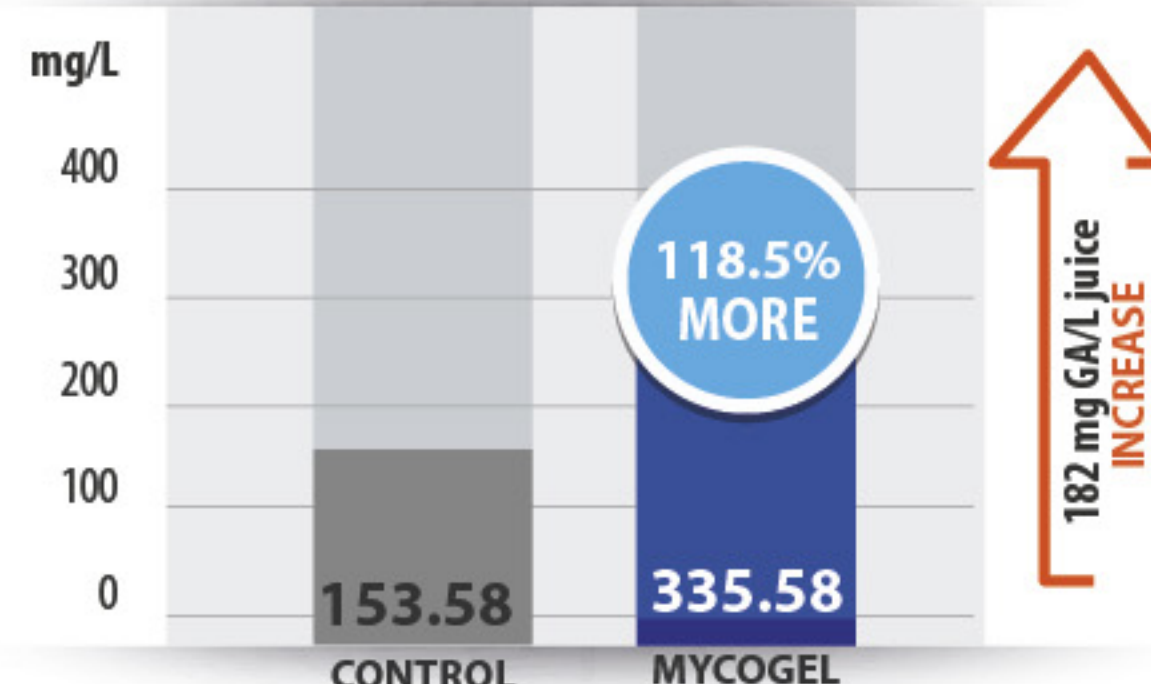
*gfp: Grams of fresh product



The total carbohydrate content of MYCOGEL is 10 grams more sugar for each 1kg of grape vs the CONTROL.

TOTAL POLYPHENOL (mg GA*/L juice)

* AG: Gallic acid



The antioxidant substance content (POLYPHENOL) is double the amount in fruits treated with MYCOGEL. This is a healthy differentiating parameter that measures the quality of this fruit for consumption.



SHELF LIFE IMAGES: COLD STORAGE



SUMMARY

Field results

Parameter	Control	Mycogel	DIFFERENCE	Consequences
Yield (kg/ha)	44,840	51,380	↑ 14.6%	1. Economic
Cluster average weight (g)	929.5	958.9	↑ 3.2%	1. Economic
Berry average weight (g)	8.03	7.27	↑ 10.5%	1. Economic 2. Quality
Berry average length (cm)	2.7	3.0	↑ 11.1%	1. Quality
Berry average width (cm)	1.5	1.6	↑ 6.7%	1. Quality
Brix degrees	18.4	21.0	↑ 14.1%	1. Economic 2. Quality: • Longer shelf life • Better flavor

• **Yield and bunch quality INCREASE**

- **AVERAGE WEIGHT INCREASES** per berry
- **Berry LENGTH and WIDTH INCREASE**
- **Brix degrees INCREASES** per berry

Data and trial Design

Crop: Table grape, variety: Crimson
Planting area: 4m x 3m
Conditions: Open field with mesh structures
Location: Totana, Murcia, Spain

Total trial area: 20,000 m²
 • CONTROL area: 10,000 m²
 • MYCOGEL area: 10,000 m²

DOSE:
 MYCOGEL: 1L/ha
 Nº of applications: 1
 Application time: In full bud break (April/2016)
 CONTROL: Standard crop management.