





# **Evaluation of the effectivity on the**

strawberry production

(Fregaria vesca)



Field trial conducted by Phytest Hispania for ARTAL Agrinutrients

www.artal.net





#### The Product

**+PROD** is a liquid biostimulant soluble in water.

It contains natural organic compounds, microelements and metabolic fuels that favour the generation and transport of photoassimilates necessaries for production.







#### The Product

**+PROD** has been developed by the R+D+I department of ARTAL Agrinutrients along with several Universities and Research Centers to:

- Increase the production.
- Improve the quality of the crops.









# **Objectives**

Evaluate the effectiveness of the product **+PROD** on performance in growing strawberry in Huelva area

Compare the effectiveness of **+PROD** added to the farm fertilization program







#### **Materials and Methods**

Location: Almonte (Huelva)

Crop: Strawberry – Variety: Splendor

Date of plantation: 23 October

**+PROD** plot size:

2,20m wide x 60,0m long (x 2 línes)

Test plot area:

2,20m wide x 60,0m long (x 2 lines)

Type of application: drip irrigation









#### **Materials and Methods**

#### **Evaluation of number of flowers and fruit set:**

Sub-plot size 50 plants

Number of sub-plots: 4

Total plot size: 200 plants

#### **Evaluation of harvest:**

Sub-plot size: 105 plants

Number of sub-plots: 4

Total plot size: 240 plants

Sub-plot size: 16,5 m2 (15 linear meters)

Plot size: 66,0 m2 (60 linear meters)









#### **Materials and Methods**

**+PROD**: dose: 5 applications at a rate of 5 L/ha by drip irrigation

**+PROD** application dates:

1<sup>a</sup> application: November 26<sup>th</sup>

2<sup>a</sup> application: December 27<sup>ht</sup>

3ª application: January 25ht

4<sup>a</sup> application: February 24<sup>ht</sup>

5<sup>a</sup> application: March 25<sup>ht</sup>





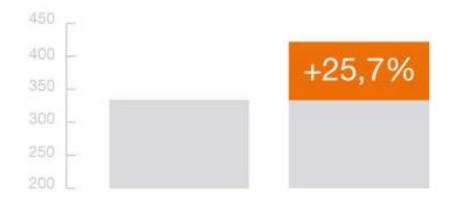




## **No. of flowers** evaluation on December 27<sup>th</sup>

Treatment	Sub.Plot 1	Sub.Plot 2	Sub.Plot 3	Sub.Plot 4	TOTAL PLOT
Test	85	90	81	82	338
+PROD	105	107	101	112	425

**Increase = 25,7%** 



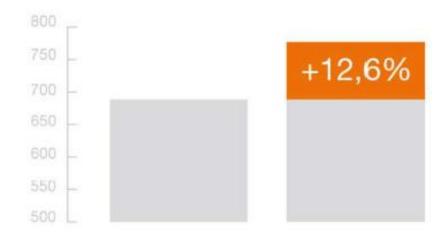




# No. of fruit set evaluation on January 25<sup>th</sup>

Treatment	Sub.Plot 1	Sub.Plot 2	Sub.Plot 3	Sub.Plot 4	TOTAL PLOT
Test	170	165	181	172	688
+PROD	190	184	189	212	775

**Increase = 12,6%** 

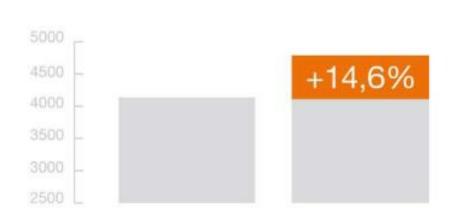






# Total fruits harvested in April

Treatment	No fruits (66m2)	Increase No. fruits (%)
Test	4.166,0	-
+PROD	4.776,0	+14,64



**Increase = 14,6%** 





# Total production (Kg) accumulated in April

Treatment	Production (Kg in 66m2)	Production (Kg/Ha)	Increased production in Kg (%)
Test	90,41	13.698,0	-
+PROD	104,40	15.818,0	+15,48



**Increase = 15,4%** 





#### Conclusions

# The application of Biostimulant **+PROD** has the following positive effects in strawberry crops

- ✓ Increases flowering and fruit set
- ✓ Increases production (Kg/Ha)
- Increases the number of fruits







#### Conclusions

# **Applying +PROD** on strawberry we get to increase:

- ✓ Flowering + 25,7%\*
- ✓ Fruit set + 12,6%\*\*
- ✓ No. of fruits + 14,6%\*\*\*

- \* After 1 application
- \*\* After 2 applications
- \*\*\* After5 applications









Conclusions

# Applying +PROD on strawberry crops we get:

+15,48%

# More production



