

Field
Assay

+PROD

**Evaluation of the effectivity on the
strawberry production**
(*Fregaria vesca*)

Artal
AGRONUTRIENTES DESDE 1895



www.masprod.net

Field trial conducted by Phyttest 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 necessary for production.





The Product

+PROD has been developed by the **R+D+I** department of **ARTAL Agrinutrientes** 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 líneas)

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^a application: November 26th

2^a application: December 27^{ht}

3^a application: January 25^{ht}

4^a application: February 24^{ht}

5^a application: March 25^{ht}



Results and Discussion

No. of flowers evaluation on December 27th

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%





Results and Discussion

No. of fruit set evaluation on January 25th

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%





Results and Discussion

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%



Results and Discussion

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

*** After 5 applications





Conclusions

Applying **+PROD** on **strawberry** crops
we get:

+15,48%

More production

