

# +PROD

Field trial to evaluate its effectiveness  
on the **production** of **tomato** crop  
(*Lycopersicum esculentum*)



Field trial conducted by FS Trials for  
**ARTAL Agronutrientes**

## The Product

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

It contains **natural organic compounds**, microelements and **metabolic fuels** that favors the generation and transport of photoassimilates necessary for production.

## The Product

**+PROD** has been developed by the **R+D+i** department of **ARTAL Agronutrientes** together with various Universities and Research Centers in order to:

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



*FS Trials*



## Objetives

Evaluate and measure the effect of **+PROD** on:

The greenhouse tomato **production**  
during crop cycle.

## Material and methods

Location: **La Vega de Almería (Almería)**

Crop: **Tomato** - Type: **Canario** - Variety: **Ramile**

Planting framework: **1,5 x 0,5m double (26.666 plants/ha)**

Soil texture: **Sandy**

Trasplantation: **August 23**

## Material and methods

**+PROD plot area:** 1.910 m<sup>2</sup>

**Test plot area:** **1.955 m<sup>2</sup>**

**Type of application:** **drip irrigation**

**+PROD dose:** 6 applications at a rate of **5 L/Ha** (total of 30 Lts / ha and crop cycle)

**1st Application:** **15 days** after transplantation (September 3)

**Following applications:** **monthly application**

(October 5, November 13, December 4, January 9 and February 6)

## Results and discussion

### Harvest assessment

total Kg/m<sup>2</sup> harvested

		HARVEST +PROD TRIAL		
		With +PROD	TEST	
nº	Date	Kg/m <sup>2</sup>	Kg/m <sup>2</sup>	% DIF.
1	Nov 20	0,228	0,124	84,2
2	Nov 26	0,450	0,390	15,4
3	Dec 04	0,393	0,353	11,3
4	Dec 12	0,355	0,316	12,4
5	Dec 19	0,317	0,340	-6,9
6	Dec 27	0,424	0,371	14,3
7	Jan 02	0,342	0,371	-7,9
8	Jan 11	0,434	0,424	2,4
9	Jan 16	0,292	0,367	-20,6
10	Jan 23	0,836	0,507	65,0
11	Jan 29	0,784	0,538	45,7
12	Feb 06	0,797	0,722	10,4
13	Feb 13	0,992	0,856	16,0
14	Feb 20	0,936	0,889	5,3
15	Feb 27	0,760	0,730	4,1
16	Mar 04	0,429	0,406	5,6
<b>Plot 1</b>		<b>8,770</b>	<b>7,705</b>	<b>13,83</b>

**Results and discussion**

Harvest assessment

total Kg/m<sup>2</sup> harvestedCompleted **+PROD** applications.

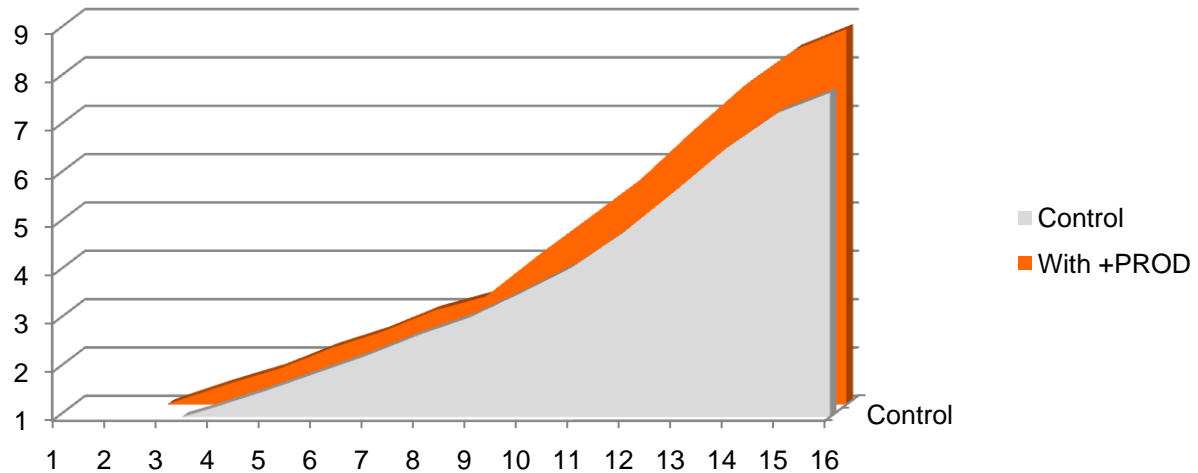
		Harvest. Completed applications of <b>+PROD</b>		
		with <b>+PROD</b>	TEST	
nº	Date	Kg/m <sup>2</sup>	Kg/m <sup>2</sup>	% DIF.
17	Mar 13	0,800	0,860	-7,0
18	Mar 21	0,445	0,527	-15,6
19	Mar 25	0,420	0,449	-6,4
20	Apr 01	0,703	0,578	21,6
21	Apr 08	0,649	0,569	14,1
22	Apr 15	0,782	0,731	6,9
23	Apr 22	0,535	0,676	-20,8
24	Apr 30	0,612	0,585	4,7
25	May 06	0,524	0,461	13,7
26	May 14	0,648	0,595	9,0
27	May 20	0,727	0,697	4,2
28	May 27	0,052	0,052	-0,4
<b>Plot 2</b>		<b>6,897</b>	<b>6,780</b>	<b>1,73</b>



## Results and discussion

### Graph 1

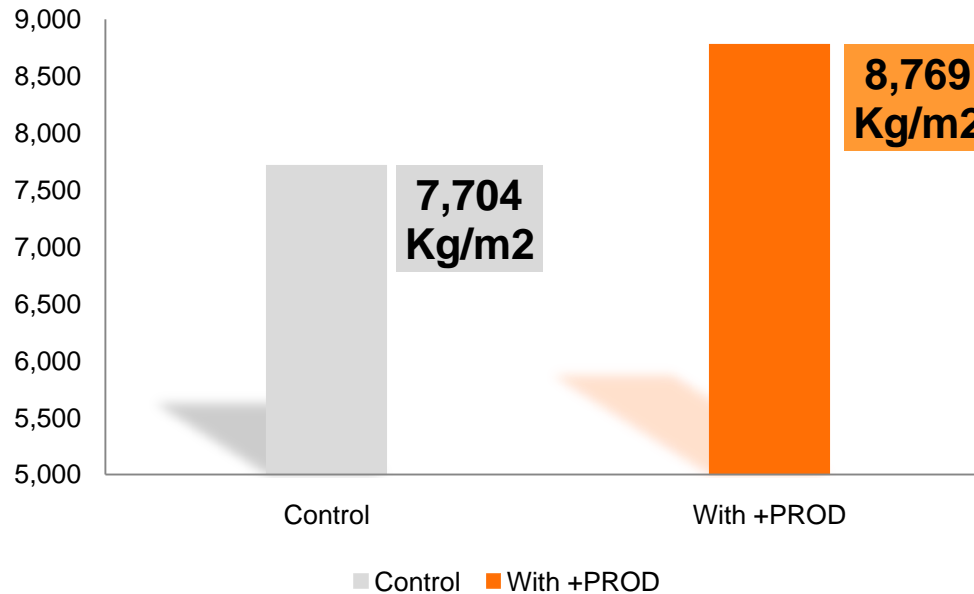
Harvest gained during the application of +PROD (Kg/m<sup>2</sup>) and day of collecting.



## Results and discussion

### Graph 2

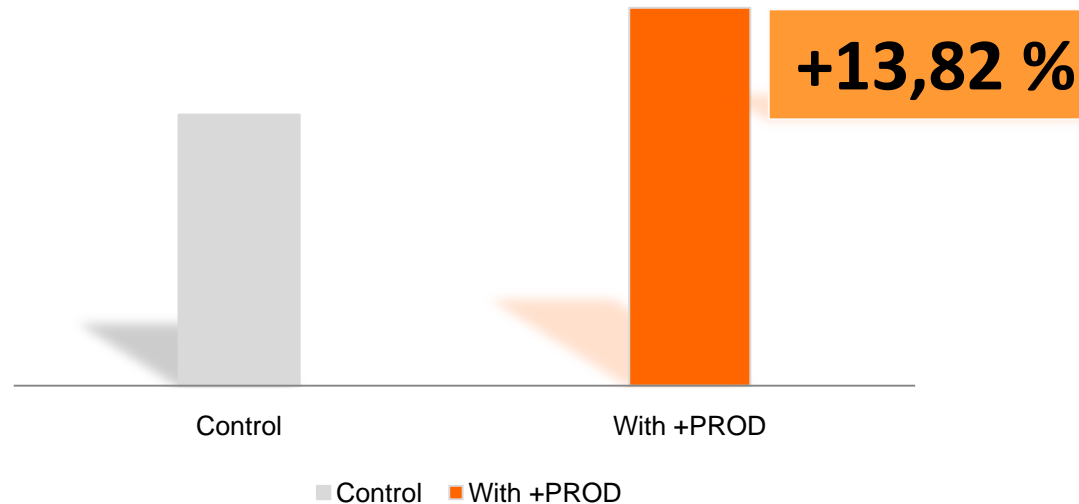
Total production during the application of +PROD (Kg/m<sup>2</sup>).



## Results and discussion

**Graph 3**

Percentage difference accumulated during the application of **+PROD** (Kg/m<sup>2</sup>).



Conclusions

Applying **+PROD** in tomato regularly from the beginning, we get:

**More production**

**+ 13,82%**