

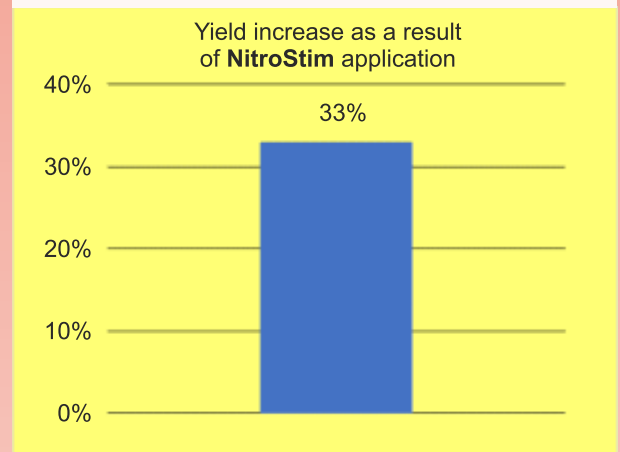
The alternative way of processing tomato nutrition

After a systematic scientific research of **HUMOFERT** in collaboration with the Agricultural University of Athens, we are now able to present to you the alternative fertilization proposal of **HUMOFERT** for the processing tomato, based on the innovative biotechnology product **NitroStim**.

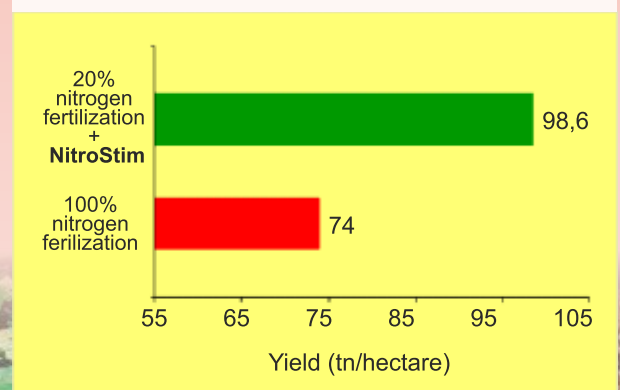
With a single foliar application of **NitroStim** at the growth stage of 15-20 cm, the following benefits are achieved:

- Reduction of total nitrogen fertilization by 80%
- Yield increase by 33%
- Quality improvement (increase in Brix, phenols, carotenoids, decrease in acidity)
- Income increase by 12.5%
- Reduction of weeds by 72%
- Minimization of the environmental footprint of the crop

Yield increase



The application of **NitroStim** with only 20% of the total nitrogen fertilization significantly increased yield in comparison with the application of 100% of the total nitrogen fertilization without **NitroStim**.



NitroStim

The following results were obtained after a field experiment on processing tomato crop (*Solanum lycopersicum L.*) was conducted under the supervision of the professors of the Agricultural University of Athens, as part of a research project.

LOCATION

Orhomenos, Greece

CROP

Processing tomato (*Solanum lycopersicum L.*)

YEAR

2020-2021

TREATMENTS

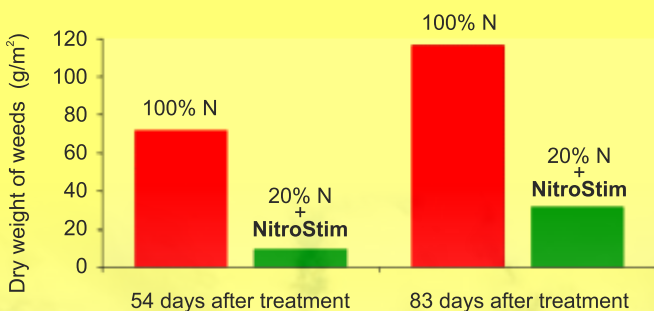
Control: application of the recommended dose of total nitrogen fertilization (100% N) with chemical herbicide

Treatment: application of the biostimulant NitroStim at a dose of 5L per hectare, with 20% of the recommended dose of total nitrogen fertilization (20% N + NitroStim) along with chemical herbicide, when the plants were at a height of 15-20 cm

Weed reduction

An important component of the crop's success was also the effective control of weeds due to:

- The fast and continuous growth of the crop, thanks to **NitroStim**
- The reduced nitrogen fertilization, which limits the nutrition of weeds



The measurements were taken 54 days and 83 days after the application of **NitroStim**. The observed reduction in weeds was initially 86% (54 days) and then 72% (83 days).

The dramatic increase in crop yield is the result of the action of the beneficial endophytic nitrogen-fixing bacteria contained in **NitroStim** which:

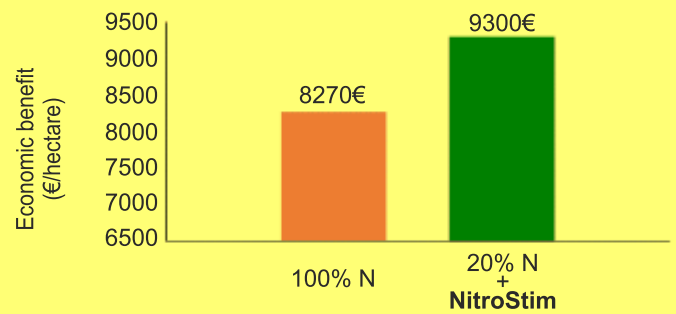
- Bind atmospheric nitrogen in the plants' leaves and convert it into a readily assimilable form
- Produce intracellularly plant-hormones
- Increase the nutrient intake by the foliage

METHOD OF APPLICATION

Growth stage 15-20 cm.

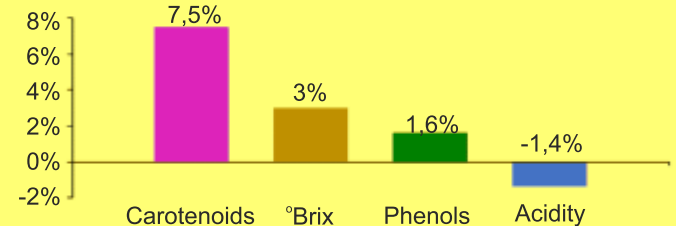
5 L per hectare

Increase in income

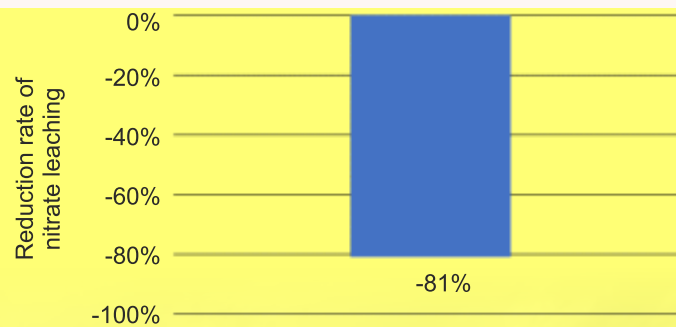


The increased crop yield resulted in a 12.5% increase in revenue.

Increase of the qualitative characteristics by using NitroStim



Environmental protection



Reduced use of nitrogen fertilizers not only has economic benefits, but also a positive effect on the environment. With the application of **NitroStim** the leaching of nitrates was reduced by 81%, thus protecting the soil and groundwater.



Produced by

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Use **NitroStim** to:

- Achieve higher yields and quality at lower costs
- Limit the use of nitrogen fertilizers
- Reduce weeds
- Help reduce the pollution of the environment by nitrates from the application of chemical fertilizers