

TOMATO

Root and vegetative development



PLACE

Test location:	OP Ventrone Soc. Coop. Agr., Francolise (CE)
Person in charge:	A. Iovino, A. Cifarelli
Number of thesis:	2
Type of cultivation:	Open field
Technique of distribution:	Fertigation
Period:	01/05/2021 - 01/06/2021
Variety:	San Marzano, var. Centopercento F1
Tested products:	ILSAORGAMIT-R



OBJECTIVE

To evaluate the efficacy of the specific action product IlsaOrgamit-R on root and vegetative development in the early stages of processing tomatoes in the open field.



VEGETABLES

RESULTS ACHIEVED

IlsaOrgamit-R is a product that has a specific effect on soil (Annex 6 of the Italian Legislative Decree 75/2010) which improves the development and absorption of roots, as it contains Mycorrhiza, Trichoderma and Rhizosphere Bacteria, which have a multiple effect in the soil and on plant roots. All this in an amino-acid-based substrate, with low salinity and no sodium, which makes it possible on the one hand to contribute effectively to root development and, on the other hand, to ensure the maximum efficiency of the microorganisms. IlsaOrgamit-R was applied, by fertigation, just after the planting of processing tomato seedlings, to evaluate its efficacy on root and vegetative development in the early stages.

The results proved the absolute efficacy of IlsaOrgamit-R, which increased root development and consequently the volume of soil explored by the roots and, at the same time, promoted better vegetative development in the early stages, thus eliminating the risk of post-transplant crisis.

TEST PROTOCOL

STAGE	ILSA thesis	Company thesis
FERTIGATION		
01/05/2021 (transplant carried out in the morning of the same day)	IlsaOrgamit-R: 20 kg/ha	Fluid fleshings (N5): 20 kg/ha

The other treatments, fertilisation and plant protection, were similar for both thesis, as per company practice.



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RESULTS ACHIEVED

Inspection on 12/05/2021
(average data of 20 plants per sample)

ILSA thesis

Company thesis

Average plant height (cm)

19.75

15.74

Average fresh root weight (g)

16.8

12.36



During the survey, carried out 12 days after the transplant and the application of IlsaOrgamit-R, the differences were already evident, both in the vegetative development of the seedlings and, above all, in root development.

The seedlings of the **ILSA** thesis were already larger and the roots were more developed, compared to the company thesis, which still had very short roots.

ILSA THESIS



COMPANY THESIS



Comparison between the rows in which IlsaOrgamit-R was applied (top photo) and the company thesis (bottom photo), during the survey on 12 May. The increased development and robustness of the plants can be seen, thanks to the improved root development promoted by IlsaOrgamit-R.