

REPORT n.2 /2017

Application of the SERENITY biostimulant in nurseries: effect on root development on graft-holder intended for the propagation of watermelon.

Premise

The production of watermelon grafted, represents for the southern nursery sector, a priority importance, being in fact for horticulturistics now forced the choice of seedlings grafted due to the increasingly high pressure of pathogens and in any case making possible a more cautious integrated fight minimizing the number of plants health measures.

Description of the test

The test was conducted at the CAIRO nursery company, specialized in the production of watermelon and pomegranate; the rootstock used was the BETON FI (ISI 113) belonging to the *Cucurbita moschata* *typology*. The treatment was carried out at the moment of grafting carried out with the technique of the approximation taking care to affix plastic tweezers for the purpose of a better seal of the grafting point.

At the time of the grafting, both of the bionti => graft-holder (BETON F1) and graft (watermelon var. MELANIA) had been sown for about 12 days. The seeders used are of the for 40 type.

SINGLE ADMINISTRATION – FERTIGATION (at the times of grafting)

DATE intervention	Dose SERENITY
25/02/17	300 ml / 1000 mq

Observed results

We report photographic documentation attesting the differences found:



Fig. 1 - detail of untreated plants after 10 days from grafting.



Fig. 2 - detail of treated plants after 10 days from grafting.

On the treaty a greater foliar development is observed, analogous is the result on the root apparatus as seen in the photos below:



Fig. 3 - Particular root system of untreated plants after 10 days from grafting.



Fig. 4 - Particular root system of treated plants after 10 days from grafting.

CONCLUSIONS

The start effect of SERENITY is confirmed, connected to a better uniformity of size and rooting, interesting to detect the influence of the same directly in the field in order to test the greater ability to overcome the transplant stress.