

TABLE GRAPES

Early and uniform colouring

ILSA

TOP

ILSA

TEC



PLACE

| | |
|----------------------------|--|
| Test location: | Azienda Agricola Valenzano Domenica, Rutigliano (BA) |
| Person in charge: | A. Mallardi, A. Adamo, A. Cifarelli |
| Number of thesis: | 2 |
| Type of cultivation: | Open field |
| Technique of distribution: | Foliar application + Fertigation |
| Period: | 05/07/2021 - 03/09/2021 |
| Variety: | Scarlotta Seedless |
| Tested products: | ILSAC-on, ILSAMIN CaMg, ILSAKOLORADO, ETIXAMIN BIO-K |



OBJECTIVE

To on size, anticipate and uniform ripening of red grapes.



GRAPE VINES

RESULTS ACHIEVED

Foliar and fertigation applications with **ILSA** formulations made it possible to achieve all the quality parameters required for market.

Foliar applications with IlsaC-on and Ilsamin CaMg, during the grapes swelling stage, resulted in a good size, higher than the company's thesis, despite a greater number of clusters. In fact, for the production of this variety, a certain number of clusters per plant is selected, equal to about 40, but the regular structure and quality of the clusters of the **ILSA** thesis allowed for a few more to be selected.

The main problem of the 2021 vintage was the difficult colouring of the grapes, especially of the red varieties. High summer temperatures and, in particular, a limited temperature range between day and night are factors that slow down grape colouring considerably.

This confirms even more the results obtained by fertigation applications of Etixamin Bio-K and foliar applications of IlsaKolorado, which reduced the effect of stress during the ripening stage and effectively anticipated the colouring of the grapes, which at the beginning of September, was not found in the company's thesis, nor in neighbouring fields. The most advanced state of ripeness was also confirmed by the higher sugar content, which allowed the producer to sell the grapes earlier and to obtain a better price on the market.

TEST PROTOCOL

| STAGE | ILSA thesis | Company thesis |
|--|--|--|
| FOLIAR APPLICATIONS | | |
| 2 applications during the grape swelling stage (05/07/2021 - 19/07/2021) | IlsaC-on: 2 kg/ha Ilsamin CaMg: 2 kg/ha | Algae-based product: 2 kg/ha Calcium-based product: 2 kg/ha |
| 3 applications, from the end of swelling to veraison (02/08/2021 - 16/08/2021 - 30/08/2021) | IlsaKolorado: 3 kg/ha | / |
| FERTIGATION | | |
| Grapes swelling (16/07/2021) | Etixamin Bio-K: 15 kg/ha | MKP (0.52.34): 40 kg/ha |
| Grapes swelling (16/08/2021) | Etixamin Bio-K: 15 kg/ha | MKP (0.52.34): 40 kg/ha |

Other fertilisation, based on macro- and micro-nutrients and phytosanitary defence treatments, were similar for both samples, as per company practice.



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RESULTS ACHIEVED

| (03/09/2021) | ILSA thesis | Company thesis |
|---------------------------------------|--------------|----------------|
| Average number of clusters per plant* | 42 | 40 |
| Average cluster weight (g) | 906.0 | 854.0 |
| Average berry weight (g) | 9.2 | 8.4 |
| Degrees Brix | 19.2 | 16.5 |
| Colour uniformity (%) | 90% | 50% |

* The number of clusters to be ripened is on average 40 and is bound by the product specification of the variety.

COMPANY THESIS



ILSA THESIS



During the survey on 3 September 2021, the differences in colour between the **ILSA** thesis (on the right) and the company thesis (on the left) were evident. The photo, taken between the rows separating the two samples, shows the difference in terms of colour uniformity, of the **ILSA** thesis compared to the company thesis and the other scaffolding of the same variety in the area which still had a considerable delay in grapes colouring.

ILSA THESIS



Detail of the clusters of the **ILSA** thesis (top photo) and the untreated (bottom photo). In addition to the improved uniformity of structure and colouring, a more advanced state of lignification of the shoots was also found, an important aspect for the differentiation of the productive buds for the following year.

COMPANY THESIS

