

REPORT

of the results of the manufacturing verification of the BIO-GEL organic product effect (BIO-GEL company) on the *Tsvetochny* grape variety yield in *Belozersky* agribusiness according to the recommendations

Kherson

September, 4, 2018

The manufacturing verification was performed in *Belozersky* agribusiness, Kherson region, during the 2018 vegetation period under drip irrigation.

Because of the adverse weather conditions in spring and summer, especially in the second half of the vegetation period, the lack of precipitation, extremely low moisture and extremely high temperatures the potential productivity was not formed.

The cultivation technology both in the control and in the experiment was conventional but in the experiment at various growth stages BIO-GEL (2 l/ha) was added to the tank mixture, the fungicide rate being reduced by 20%.

The results of the manufacturing verification revealed the following:

BIO-GEL was added to the tank mixture for foliar spraying, the rate being 2 l/ha, at the stages of flowering end, fruit ripening, bunches formation and fruit softening, the yield in this case amounted to 13.333 t/ha; in case of three-fold spraying the yield was 13.666 t/ha, in case of two-fold spraying – 12.461 t/ha. Compared to the control (11.256 t/ha) the yield gain amounted to 2.080 t/ha, 2.410 t/ha, 1.205 t/ha or 18.48%, 21.41% and 10.07%, respectively.

Phenological observations and biometric measurements revealed positive changes in the plants vegetation compared to the control, namely: lower impact of adverse weather conditions, greater resistance and tolerance to diseases, longer vegetation period, strengthened growth, greater plant productivity.

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