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The invention relates to the agriculture and may be applied in viticulture.

The summary of the invention consists in the grape-vine plants treatment with 8-12 days before their full flowering and in the grapes ripening stage with epibrasinolid aqueous solution of 10-7 - 10-5% with a consumption of 0,25-0,3 l/plant or 500-600 l/ha.

The technical result of the invention consists in the optimization of the physiological processes, the increase of the sugar content into the grapes, the diminution of their acidity and the increase of the grapes mass.