

## **'BRS Magna': a novel grape cultivar for juice making, with wide climatic adaptation**

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'BRS Magna' resulted from the crossing of 'BRS Rúbea' X 'IAC 1398-21' ('Traviú'), made in 1999, at Embrapa Grape and Wine, in the City of Bento Gonçalves. Three hundred and thirty-six plants were obtained and grafted in the vineyards of Embrapa Grape and Wine. The first evaluation occurred in 2006. The original plant was selected due to its good fertility, raspberry flavor, high sugar content and proper color. 'BRS Magna' was evaluated successfully in tropical and temperate regions. It presents medium productive cycle and its potential yield reaches 25 to 30 t ha<sup>-1</sup>. The estimated thermal necessity of 'BRS Magna' was 1,442 degree-day from pruning to the end of maturation and 1,330 degree-day from sprouting to the end of maturation. 'BRS Magna' presents medium tolerance to leaf blight, whose etiological agent has not been identified yet. During the evaluations, it was also observed symptoms of powdery mildew [*Uncinula necator* (Schw.) Burr.], bunch rot (*Botrytis cinerea* Pers.), anthracnosis [*Elsinoe ampelina* (De Bary) Shear], grape ripe rot [*Glomerella cingulata* (Ston.) Sapulda & Schrenk] and leaf rust (*Phakopsora euvitidis* Ono). It is susceptible to downy mildew [*Plasmopara viticola* (Berk e Curt) Berl] as a *V. vinifera* grape. 'BRS Magna' presented good agronomic performance when grafted on the rootstocks 'Paulsen 1103', in Southern Brazil, and 'IAC 572', in tropical areas. The full ripe grape presents pleasant raspberry flavor, typical of *V. labrusca*. The chemical traits of the must are sugar content of 17-19°Brix, average total acidity of 90 meq L<sup>-1</sup>, and pH of 3.60. The juice made with 'BRS Magna' is intense violet, and can be taken pure or in blends with other juices in order to improve the color, the sweetness, and the flavor. In comparison with the juice made with other cultivars released by the Grape Breeding Program. 'BRS Magna' anthocyanin and phenolic compounds contents were distinguished, with smaller values only in comparison to 'BRS Violeta' juice.

Theme: Plant Breeding

Area: Viticulture