Artys
(breeder reference: Col-2190L)

A wine grape variety from the INRAE-ResDur2 series, with polygenic resistance to downy mildew (*Rpv1 + Rpv10*) and powdery mildew (*Run1 + Ren3 + Ren 9*)



Origin/Parentage

Artys = Mtp 3160-11-3 x Bronner

Breeder: INRAE (France)

Mtp 3160-11-3: INRAE variety, selected by A. Bouquet in Montpellier by introgressing the resistance source *V. rotundifolia*.

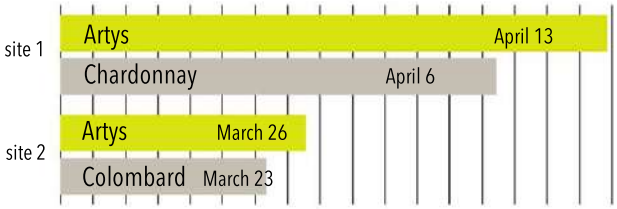
Bronner: Variety selected in 1999 by the Weinbau Institut in Freiburg (Germany). It carries resistance factors from American and Asian vines (*V. amurensis*) and is also highly resistant to black rot.

Artys was listed in the official catalog in December 2024.

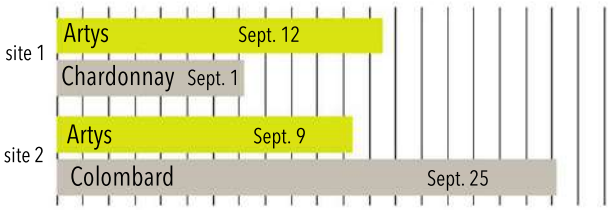
Agronomic traits

Phenology

Bud break date *(3-year average)*



Harvest date *(3-year average)*

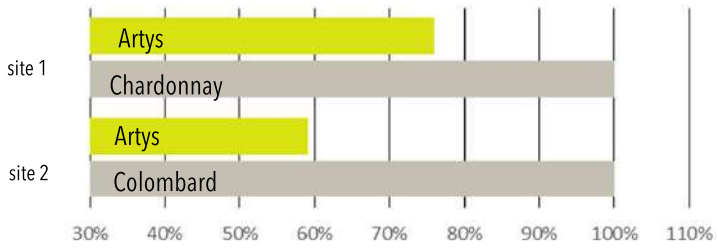


Bud break later than Chardonnay and similar to Colombard. Second period ripeness.

Vigour and production

Vigorous variety with semi-erect growth habit. Artys has a slightly lower yield than the controls. However, additional observations indicate higher yield potential. The clusters are medium to large, consisting of small berries.

Yield as a percentage of the control *(3-year average)*



INRAE Grand Est Colmar
UMR Vine Health and Wine Quality
28 rue de Herrlisheim
68000 Colmar
Tel. +33 3 89 22 49 00

Design and production:
Vincent Dumas
Guillaume Arnold
February 2026

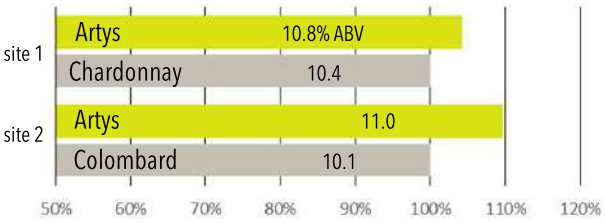
Artys

Enological parameters

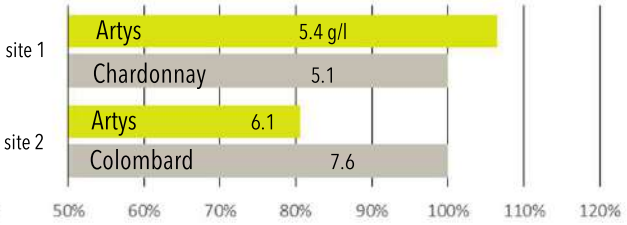
Sugar content and acidity of grapes

At maturity, sugar content is equivalent to that of the control grape varieties. The acidity of the berries is equivalent to Chardonnay in Champagne and slightly lower than Colombard.

Potential alcohol content *(average over 3 years)*



Total acidity in sulf. ac. *(average over 3 years)*



Wine quality

Suitable for producing fresh, powerful wines with a bouquet featuring mineral and empyreumatic notes.

Resistance to fungal diseases

Downy mildew

Rare symptoms on inflorescences or clusters, with no impact on the harvest, whereas untreated control varieties are severely affected. Presence of small necroses on foliage in cases of high pressure.

Powdery mildew

Total resistance observed on all sites, even under high pressure.

Black rot

Artys has no identified resistance factors to black rot. In high-risk situations, fungicide protection is essential. Based on current knowledge from a limited number of trials, two treatments around flowering are sufficient to prevent damage to clusters and yield losses.

Botrytis

Good resistance to botrytis bunch rot.

Potential savings on fungicides

Artys has polygenic resistance, consisting of two resistance factors against downy mildew and three factors against powdery mildew. In order to preserve these resistance factors, based on current knowledge, it is essential to carry out a minimum of two fungicide treatments. This protection must be increased in the event of high disease pressure. Fungicide savings are between 80% and 90% compared to a susceptible variety.

ÉCOPHYTO RÉDUIRE ET AMÉLIORER L'UTILISATION DES PHYTOS

Variety eligible for the Phytopharmaceutical Product Economy Certificates (CEPP) scheme.

Acknowledgments:

The acquisition of agronomic, technological, and environmental data summarized in this fact sheet was financially supported by FranceAgriMer as part of the INNOVRES project. The experimental part was carried out within a partnership between INRAE , IFV and two regional organizations (Site 1: CIVC and Site 2: IFV Pôle Sud-Ouest).

Information:

Technical: INRAE Colmar - guillaume.arnold@inrae.fr ; vincent.dumas@inrae.fr,

Plants: IFV Le Grau du Roi - anastasia.rocque@vignevin.com ; laurent.audeguin@vignevin.com