



Cabernet-sauvignon N



Name of vine variety in France

Cabernet-Sauvignon

Origin

This vine variety is originally from the Bordeaux region. Based on published genetic studies, this variety comes from the crossbreeding of Cabernet franc N and Sauvignon B

Synonymy

There is no officially recognized synonym in France nor in other countries in the European Union.

Regulations

In France, Cabernet-Sauvignon N is officially listed in the "Catalogue of vine varieties". This variety is likewise listed in the Catalogues of other European Union member states: Germany, Austria, Bulgaria, Cyprus, Spain, Greece, Italy, Hungary, Malta, Portugal, Czech Republic, Romania, Slovakia, Slovenia

Use

Wine vine variety

Evolution of area under vines in France

	1958	1968	1979	1988	1998	2008	2016
ha	7841	11882	22992	36468	49393	60385	48439

Description

Identification signs include:

- young leaves are red with bronze patches,
- adult leaves are orbicular with 7 to 9 lobes, with a petiolar sinus that has slightly overlapping lobes and a base sometimes limited by a vein near the petiolar point, a flat base lateral sinus or U-shaped, medium to large length teeth with convex sides, a bubbled leaf blade and the underside has a sparse coat of flat-lying hairs,
- round-shaped berries.

Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	137	229	239	172	188	248	238	233	239
Allel 2	149	238	239	186	194	248	248	235	239

Phenology

Bud burst: 13 days after Chasselas.

Grape maturity: period II, 3 to 3 and 1/2 weeks after Chasselas.

Suitability for cultivation and agronomic production

Cabernet-Sauvignon N has a late bud burst, is vigorous with large-diameter vine shoots under fertile conditions with very long branches (elongated internodes) and lignified tendrils. It requires careful training and pruning, which can be long or short in southern areas, and is relatively slow. Large pruning wounds should be avoided. Removing wood, which is hard, likewise requires considerable time consuming work. Cabernet-Sauvignon N oftentimes produces better results on gravelly and draining ground, rather acid and well-exposed. This variety sometimes suffers from black stem and this risk is increased by using certain rootstock such as S04.

Sensitivity to diseases and pests

Cabernet-Sauvignon N is less susceptible to grey rot. On the other hand, it is very susceptible to wood disease (eutypiosis, esca) and powdery mildew.

Technological potential

The grape clusters and berries are small. Cabernet-Sauvignon N makes wines with very interesting tannic structure with a sustained color when it has reached maturity. These wines are generally suitable for ageing and maturing in wood. This vine variety passes from vegetal aromas to much more pleasant and complex aromas once the wine has reached a proper maturity. On the other hand, when vinified alone as a single variety, Cabernet-Sauvignon N oftentimes lacks body and roundness.

Clonal selection in France

The twenty approved Cabernet-Sauvignon N clones carry the numbers 15, 169, 170, 191, 216, 217, 218, 219, 267, 269, 337, 338, 339, 341, 410, 411, 412, 685, 1124 and 1125. A collection-conservatory planted in the Bordeaux vineyards includes more than 250 clones derived from surveys carried out between 1966 and 1988.


Bibliographic references

- Catalogue des variétés et clones de vigne cultivés en France. Collectif, 2007, Ed. IFV, Le Grau-du-Roi.
- Documentation interne du Domaine de Vassal. 1949-2011, INRA, Marseillan-plage.
- Cépages et vignobles de France, tome 2. P. Galet, 1990, Ed. Dehan, Montpellier.
- Ampélographie. P. Viala et V. Vermorel, 1902-1910, Ed. Masson, Paris.

Description of clones approved in France

Clone number	Identity and availability		Agronomic data		Technical data	
	Origin	Selection	Fertility	Production level	Sugar content	Potential color
	Year approved	Agronomic references	Weight of grape bunches	Vigor	Total acidity	Tannic structure
	Growing surface area		Size of berries	Sensitivity to Botrytis	Aromatic intensity	Oenological aptitudes
15	Gironde	ENTAV	high	high	medium	medium
	1971	Bordelais Languedoc Provence, Sud-Ouest	medium to high	medium	medium	medium
	39.07 ha		medium to high			balanced and structured wines
ENTAV INRA® Clone appreciated in the south of France; good compromise between production level and harvest quality provided that the yield is managed and sufficient maturity ensured						
169	Gironde	ENTAV	low to medium	medium	high	medium to high
	1972	Bordelais Languedoc Sud-Ouest	low to medium		medium	medium to high


Clone number	Identity and availability		Agronomic data		Technical data	
	Origin	Selection	Fertility	Production level	Sugar content	Potential color
	Year approved	Agronomic references	Weight of grape bunches	Vigor	Total acidity	Tannic structure
	Growing surface area		Size of berries	Sensitivity to Botrytis	Aromatic intensity	Oenological aptitudes
46.38 ha		low to medium			balanced and well-structured wines with round tannins	

ENTAV  INRA[®] Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potential.

170	Val-de-Loire	ENTAV	medium	medium	medium	medium
	1972	Bordelais Languedoc, Provence Val-de-Loire	medium		medium	medium
	5.39 ha		medium			balanced and distinctive of the vine variety wines

ENTAV  INRA[®] Clone typical of the vine variety


191	Gironde	INRA	low to medium	low	high	high
	1973	Bordelais, Sud-Ouest Languedoc, Provence Val-de-Loire	low	medium	medium	high
	14.04 ha		low to medium			colorful and well structured

ENTAV  INRA[®] Clone carrier of leaf roll virus2. Increasingly bronze budding and young leaves. Risk of blocking ripening if water stress is too great. Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potential


216	Val-de-Loire	ENTAV	high	high	low to medium	
	1973	Languedoc, Provence Val-de-Loire	medium		medium	
	0.30 ha					distinctive wines of the vine variety

ENTAV  INRA[®]

217	Val-de-Loire	ENTAV	medium	high	medium	
	1973	Languedoc, Provence Val-de-Loire	medium		medium	
	1.16 ha					distinctive wines of the vine variety

ENTAV  INRA[®]


218	Gironde	ENTAV	medium to high	medium to high	medium	
	1973	Bordelais	medium			
						distinctive wines of the vine variety

ENTAV  INRA[®]

219	Val-de-Loire	ENTAV	medium	medium	low to medium	
	1973	Languedoc Val-de-Loire	medium		medium	
	0.42 ha					distinctive wines of the vine variety

ENTAV  INRA[®]


267	Gironde	ENTAV	medium to high	high	low to medium	
	1973	Val-de-Loire	medium to high		low to medium	
						distinctive wines of the vine variety

ENTAV  INRA[®]


269	Gironde	ENTAV	high	high	medium	
	1973	Val-de-Loire	medium		medium	
						distinctive wines of the vine variety

ENTAV  INRA[®]

337	Gironde	INRA	medium	medium	medium to high	medium to high
	1975	Bordelais	medium		medium	medium to high
	28.39 ha		medium			rich and structured wines

ENTAV  INRA[®] Clone carrier of leaf roll virus2. Slightly shorter plant cycle. Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potential

338	Gironde	INRA	medium	medium	medium	medium to high
	1975	Bordelais Languedoc	medium to high		medium	medium to high
	9.68 ha		medium			balanced and distinctive of the vine variety wines

ENTAV  INRA[®]

339	Gironde	INRA	high	high	low to medium	
	1975	Bordelais Languedoc, Provence	medium to high		medium	

Clone number	Identity and availability		Agronomic data		Technical data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar content</i>	<i>Potential color</i>
	<i>Year approved</i>	<i>Agronomic references</i>	<i>Weight of grape bunches</i>	<i>Vigor</i>	<i>Total acidity</i>	<i>Tannic structure</i>
	<i>Growing surface area</i>		<i>Size of berries</i>	<i>Sensitivity to Botrytis</i>	<i>Aromatic intensity</i>	<i>Oenological aptitudes</i>
0.75 ha					distinctive wines of the vine variety	
ENTAV INRA® Clone carrier of leaf roll virus2. More vigorous appearance, dark green leaves						
341	Gironde	INRA	low to medium	medium	high	medium to high
	1975	Bordelais	low		medium	medium to high
	8.25 ha		medium			balanced and structures wines
ENTAV INRA® Clone carrier of leaf roll virus 2. Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potentiel						
410	Gironde	ENTAV	medium	medium	medium	
	1976	Bordelais	medium		medium	
						distinctive wines of the vine variety
ENTAV INRA®						
411	Gironde	ENTAV	medium	medium	medium	
	1976	Bordelais	medium		medium	
						distinctive wines of the vine variety
ENTAV INRA®						
412	Gironde	ENTAV	low to medium	low	high	medium to high
	1976	Bordelais Languedoc, Provence	low to medium		medium	medium to high
	0.59 ha		low to medium			balanced and structured wines
ENTAV INRA® Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potential						
685	Pyrénées-Atlantiques	ENTAV	high	high	medium	medium
	1980	Bordelais Provence, Sud-Ouest	high		medium	medium
	19.68 ha		medium			characteristic wines of the vine variety
ENTAV INRA® More productive and more vigorous clone, slightly later maturity						
1124	Gironde	CA 33 - IFV	medium	medium	medium to high	high
	2009	Bordelais	medium	medium to high	medium	high
			medium to high	medium		colourful and well structured wines
ENTAV INRA® Clone derived from clone 191 disinfected by apex micrografting. Free of leafroll virus 2						
Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potential						
Greater vigor than clone 191						
1125	Gironde	CA 33 - IFV	medium	medium	medium to high	high
	2009	Bordelais	medium	medium	medium	medium to high
			medium	medium		wines appreciated for their organoleptic quality, particularly with regard to balance, color and structure
ENTAV INRA® Clone belonging to another clone 337 sanitary family. Free of leafroll virus 2						
Clone appreciated for its agronomic characteristics and its capacity for producing wines with good ageing potential						
Slightly earlier maturity						



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