



## Cot N



### Name of vine variety in France

Cot

### Origin

This vine variety is originally from the South-west of France.

### Synonymy

In France, this variety can officially be called "Malbec N" with regard to plant propagating material. In the European Union, Cot N can officially be called by other names: Kot (Bulgaria), Malbec (Spain, Czech Republic), Malbech (Italy), Malbeck (Bulgaria) and Malbek (Austria).

### Regulations

In France, Cot N is officially listed in the "Catalogue of vine varieties". This variety is likewise listed in the Catalogues of other member states of the European Union: Austria, Bulgaria, Spain, Italy and the Czech Republic.

### Use

Wine grape variety

### Evolution of area under vines in France

	1958	1968	1979	1988	2000	2008	2016
ha	10752	9765	4801	5279	6166	6676	7297

### Description

Identification signs include:

- the young shoot tips are densely covered with flat-lying hairs,
- young leaves are green with bronze patches,
- adult leaves are whole or 3-lobed with a U- or V-shaped open petiolar sinus; small teeth, long compared to width at base, straight sides; revolute leaf blade, wavy between the veins near the petiolar point; the leaf underside is sparsely to medium covered with flat-lying hairs,
- round-shaped berries

## Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	131	225	239	186	188	246	238	233	239
Allel 2	149	236	262	188	202	260	248	267	251

## Phenology

Bud burst: 4 days after Chasselas. Grape maturity: period II, 2 and 1/2 weeks after Chasselas

## Suitability for cultivation and agronomic production

This vigorous vine variety is sensitive to coulure, but clonal selection has sharply reduced this defect. Plant vigor should be managed by high density plantations and by using low productive rootstock. This variety is fairly sensitive to winter frosts during the first years after plantation. Following spring frosts, the volunteers from secondary buds are not very fertile. At maturity, there is sometimes the risk of shattering.

## Sensitivity to diseases and pests

Cot N is not particularly sensitive to fungal diseases except perhaps with regard to phomopsis. It is likewise sensitive to leaf hoppers.

## Technological potential

Clusters and berries are medium-sized. Based on a well-managed production, this early variety can produce quite colorful, aromatic and tannic wines with good capacity for ageing. Good results are obtained for rosé wine making. Generally speaking, sufficient maturity of grapes should be reached to avoid too herbaceous and vegetal aromas of Cot N which sometimes are somewhat hard or bitter.




## Clonal selection in France













The sixteen approved Cot N clones carry the numbers 42, 46, 180, 279, 353, 419, 592, 593, 594, 595, 596, 597, 598, 1061, 1127 and 1128. Two conservatories with approximately 220 clones were set up in the Lot in 1993 and in 2003.

## 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
42	Lot	ENTAV	medium	medium	medium	
	1971	Sud-Ouest	medium			
	0.54 ha					distinctive wines of the vine variety
ENTAV  INRA® Occasionally slightly irregular clone						
46	Lot	ENTAV	high	medium to high	medium to high	
	1971	Sud-Ouest	medium			
	0.96 ha					distinctive wines of the vine variety
ENTAV  INRA®						
180	Gironde	ENTAV	low	medium	medium	medium
	1973	Bordelais, Sud-Ouest	medium		medium	medium
	1.59 ha					distinctive wines of the vine variety
ENTAV  INRA® Clone appreciated for its agronomic characteristics.						

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>
<b>279</b>	Gironde	ENTAV				
	1973	Gironde				
						Small distribution clone
ENTAV  INRA®						
<b>353</b>	Gironde	ENTAV				
	1975	Gironde				
						Small distribution clone
ENTAV  INRA®						
<b>419</b>	Gironde	ENTAV				
	1976	Gironde				
						Small distribution clone
ENTAV  INRA®						
<b>592</b>	Gironde	INRA				
	1978					
ENTAV  INRA®						
Small distribution clone						
<b>593</b>	Gironde	INRA				
	1978					
ENTAV  INRA®						
Small distribution clone						
<b>594</b>	Lot	ENTAV	medium	medium	medium to high	medium to high
	1978	Sud-Ouest	medium			medium
	2.38 ha					distinctive wines of the vine variety
ENTAV  INRA® Clone appreciated for its agronomic characteristics and quality of wines produced.						
<b>595</b>	Lot	ENTAV	medium	medium	medium to high	medium to high
	1978	Sud-Ouest	medium			medium to high
	4.29 ha					distinctive, refined and harmonious wines
ENTAV  INRA® Clone appreciated for its agronomic characteristics and quality of wines produced.						
<b>596</b>	Lot	ENTAV	medium	medium	medium to high	medium to high
	1978	Sud-Ouest	medium			medium
	3.19 ha					distinctive wines of the vine variety
ENTAV  INRA® Clone appreciated for its agronomic characteristics and quality of wines produced.						
<b>597</b>	Gironde	INRA				
	1978					
ENTAV  INRA®						
Small distribution clone						
<b>598</b>	Lot	ENTAV	medium	medium	medium to high	medium to high
	1978	Sud-Ouest	medium			medium
	4.66 ha					distinctive wines of the vine variety
ENTAV  INRA® Clone appreciated for its agronomic characteristics and quality of wines produced.						
<b>1061</b>	Gironde	CA 33 - ENTAV	medium	medium	medium to high	medium to high
	2001	Bordelais	low		medium	medium
						structured wines
ENTAV  INRA® Clone appreciated for its agronomic characteristics and quality of wines produced.						
<b>1127</b>	Lot	CA 46 - IFV	medium	medium	high	high
	2009	Sud-Ouest	low		medium	high
			medium		high	supple, fruity, balanced and colorful wines
ENTAV  INRA®						
Moderate production level. Wines appreciated for their organoleptic characteristics						
<b>1128</b>	Lot	CA 46 - IFV	low	low	high	high
	2009	Sud-Ouest	low		medium to low	high

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>
		medium		high	distinctive, structured and colorful wines with a good finish	

ENTAV INRA®

Moderate production level. Wines appreciated for their organoleptic characteristics



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