

101-14 MGt 101-14 Millardet et de Grasset







Genetic origin

This variety results from the crossbreeding between *Vitis riparia* and *Vitis rupestris*.

Name of the variety in France (and usual name)

101-14 MGt

Breeder\/breeder and year obtained

Alexis Millardet and Charles de Grasset

Estimated surface area of the French vineyard grafted with this rootstock and main regions of use

28 000 ha . Aquitaine, Midi-Pyrénées, Bourgogne Franche-Comté, Rhône-Alpes, Val de Loire.

Elements of ampelographic description

The identification is based on:

- the tip of the young shoot that is completely closed, with a medium density of erect hairs and no prostrate hairs,
- the bronzed young leaves, with well developed stipules at the base of the petioles,
- the shoots with a semi-erect or horizontal bearing, a striated surface, a circular section and a low density of erect hairs and no prostrate hairs on the nodes,
- the medium to large, wedge- or kidney-shaped, entire adult leaves, with a widely open U-shaped petiole sinus, a smooth, slightly undulate leaf blade between the veins, long teeth compared to their width with straight sides or with one side slightly convex and one side slightly concave (the three terminal teeth of the central main vein and the two main adjacent lateral veins are longer and more developed), and on the lower side of the leaves, no prostrate hairs and a medium density of erect hairs, more particularly at the bifurcation of the veins,
- the female flowers.
- the very small, round-shaped berries, with a blue black skin,
- the long, browny yellow or beige woody shoots.

Evolution of cultivated areas in France

Year	ha
19453	35
19555	54
19655	50
19757	70
19855	53
19958	32
20051	104
20151	105

Genetic profile

Microsatell	iteVVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allele 1	131	253	243	236	173	256	236	241	259
Allele 2	141	263	251	238	190	258	238	249	259

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Resistance to soil pests

101-14 MGt is very tolerant to the root form of phylloxera and to *Meloidogyne incognita* and *Meloidogyne arenaria* nematodes.

Aptitudes for vegetative multiplication

101-14 MGt has long internodes with medium diameter. The growth of lateral shoot buds is also moderate and the cleanin and disbudding is a little difficult. 101-14 MGt wood production can be variable depending on the conditions (30 000 to 80 000 m/ha). The canes are easily preserved and this rootstock has good cuttinf and grafting capacities.

Clonal selection in France

In France, the 4 certified 101-14 MGt clones carry the numbers: 3, 759, 1034 and 1043. Among those, the clones multiplied are:

- clone No. 3: 23ha 24 ares of mother vines producing certified material, in 2017,
- clone No. 759: 42 ha 70 ares of mother vines producing certified material, in 2017,
- clone No. 1034: 13 ha 60 ares of mother vines producing certified material, in 2017,
- clone No. 1043: 26 ha 45 ares of mother vines producing certified material, in 2017.

Datas are extracted from: Les chiffres de la pépinière viticole, 2017, Datas and assesment of FranceAgriMer, may 2018.

Adaptation to the environment

101-14 MGt is ot very tolerant to chlorosis. It only resists up to 20% of "total" limestone, 9% of "active" limestone and an ICP of 10. 101-14 MGt is also fairly sensitive to soil acidity along with copper toxicity and boron deficiency. This rootstock is sensitive to drought but is fairly well adapted to humidity. It has a ramified root system similar to that of Riparia Gloire de Montpellier. 101-14 MGt absorbs well magnesium and is adapted to fairly deep, clay soils with very little or no limestone and a sufficient water input.

Interaction with the graft and production objectives

101-14 MGt usually has a very good affinity with the grafts. The first growth of plants is fast but the vigor confered is nevertheless limited. Thus, this rootstock contributes to manage the plant growth and has an influence on the earliness of the vegetative cycle. 101-14 MGt induces moderate yields with an often a lower average berry weight compared to those obtained with other rootstocks. The varieties grafted onto 101-14 MGt generate balanced, quality products with good maturity and the associations with Cabernet franc, Cabernet-Sauvignon, Chardonnay, Chenin, Colombard, Gamay, Grenache, Petit Verdot, Sauvignon, Semillon and Syrah are appreciated.

Bibliographic references

- Catalogue des variétés et clones de vigne cultivés en France. Collectif, 2007, Ed. IFV, Le Grau-du-Roi, France.
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- Cépages et vignobles de France, tome 1. P. Galet, 1988, Ed. Dehan, Montpellier, France.











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