

## M4

**Origin:** Italy (Università degli Studi di Milano [DiSAA]- 1986).

### VEGETATIVE FEATURES

**Leaf:** large, wedge-shaped, whole, slightly three-lobed, with an open V-shaped petiolar sinus; the upper side is hairless and the flap is bullous, dark-green-colored, opaque; the lower side is bristly and green colored, with light-green ribs.

**Woody shoot:** long, branched, elastic, with prominent development of secondary shoots, hairless, dark purple-brown in color.

### CULTURAL APTITUDES

**Ability to promote fruit setting:** good.

**Root system regeneration:** acceptable.

### ADAPTABILITY TO SOIL TYPE

**Compact:** good.

**Wet:** poor.

**Dry:** excellent.

**Stony:** good.

**Acidic:** poor.

**Saline:** excellent.

**Branching pattern of the roots:** expanded.

Tendency to emission of suckers moderate.

### SUSCEPTIBILITY TO DEFICIENCIES OR EXCESSES

**Deficiency of K:** sensitive.

**Deficiency of Mg:** poor sensitivity.

**Deficiency of Fe:** poor sensitivity.

**Deficiency of B:** poor sensitivity.

**Resistance to root phylloxera:** good.

**Resistance to leaf phylloxera:** sensitive.

### SUSCEPTIBILITY TO FUNGAL AND PLANT DISEASES

**Downy mildew:** poor.

**Powdery mildew:** poor.

**Anthracoze:** very poor.



### OTHER INFORMATION

**Behavior in the nursery:** it shows a slow/moderate growth resumption; it develops a strong root system mainly consisting of thin roots. In the nursery it guarantees medium-high yields.

**Behavior in the propagation block:** it postpones lignification and guarantees medium-high yields.

**Behavior in the open field:** it develops root systems preferably between 40 and 90 cm and even over 100 cm. It tendentially restrains production and vigor, thus promoting the accumulation of sugars, anthocyanins and polyphenols. Capable of maintaining excellent levels of acidity.