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The invention relates to the agrarian science and may be used in the biotechnology.

The technical result consists in the accuracy, objectivity of the resistance degree and diagnostics acceleration of the phylloxera rape resistance.

The process foresees the investigation of the indexes illustrating the pest resistance.

The novelty consists in the fact that as investigating index of the light microscopy method is used the upper epidermis and palisade parenchyma cells light and width determination, by that the resistance number is determined according to the proposed formula. For the diagnostics there are selected only the crown-formed leaves in the stage of the phylloxera infection. To the resistant relate varieties having resistance number of 0-2,5, to the tolerant - 2,5-3,5 and to the perceptible - more than 3,5.

The valuation of the grape phylloxera resistance is diminished from 3 years up to 15-20 days.