The invention refers to agriculture and may be used for increasing the vine systemic resistance to phytopathogenic organisms.

The claimed process consists in the treatment of plants, starting with the phase of 2...3 leaves up to the entry into the ripening phase, with intervals of 10...12 days with 0,3...0,5% aqueous solution of pulverulent biomass extract of the *Spirogira sp.* green alga with a total consumption of 500...800 L per ha.

The result of the invention consists in increasing the vine resistance to pathogenic fungi.

Claims: 1