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PROTECTION FROM DISEASES grapes USING microbiological agents

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Exceptional value for grapes Ukraine's economy has caused its wide spread and led to the creation of many highly productive and valuable varieties. Accordingly, improved technology and agricultural technology cultivation of this valuable culture. The total area of vineyards in Ukraine is about 98.0 thousands ha. In the industrial culture of grapes grown in Crimea, southern Ukraine steppe zone and in our region.

There are several areas of regulation of activity of pathogens using biologically active substances that can induce protective responses and stimulate the immune system of plants. One of these areas is the use of biologically active substances from fungal polysaccharides. Following the completion of various compositions of biopolymers found that for diseases of crops they have prolonged action mechanism, providing restriction of pathogenic fungi pathogens.

The purpose of this work - search for alternative application of pesticides and increasing environmental safety protection of grapes from disease through the use of integrated crop protection in biological products based on microorganisms that are antagonists of plant pathogens.

Methods of research. The venue of the studies were industrial plantations Riesling grapes Transcarpathian Institute of Agricultural Production in the village. Great Bacta in 2009-2010. Studied biological agent "Mikosan B" 13%. k. g. (10 L / ha); served as a benchmark chemicals "Impact 25 SC" k. p. with the normal flow of 0.1 l / ha.

The effectiveness of preparations was determined by the presence of disease before and after treatment with bushes. Determination of the effectiveness of the biological product was performed by comparing with the reference version and control where the processing is performed.

Effectiveness of biofungicide "Mikosan B" compared with the standard and held seven spraying fungicides approved for use in Ukraine (impact, topsyn, strobe, topaz, thiofene, falcone and flint) was slightly lower. In version control until the harvest there was a strong defeat leaves vines, harvest was substandard. In applying biological product yield was 2.7 kg / bush that was at the reference version.

Microbiological biofungicide "Mikosan B" was effective against on grapes from powdery oidium, mildew allowing to reduce pesticide load and get environmentally friendly products.