KARTOSHKA X VIRUSI ANTIGENI ASOSIDA TURLI IMMUNOLOGIK USULLAR VA IFA VARIANTLARI SEZGIRLIGINI ANIQLASH

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ANNOTATSIYA

Bugungi kungacha fitoviruslarni diagnostika qilishda bir qator usullar qo'llanilib kelingan bo'lib, ularning har biri o'ziga xos sezgirligi bilan bir-biridan farqlanadi. Bu usullar ichida immunologik usullar o'zining sezgirligi va bir vaqtning o'zida bir qancha namunani aniqlay olishi bilan afzalliklarga ega. So'ngi yillarda biotexnologiyaning rivojlanishi natijasida paydo bo'lgan immunologik usullar sezgirligining avvaldan qo'llanilib kelingan usullardan sezgirligi jihatdan yuqori darajada turishi haqidagi ma'lumotlar bir qator mualliflar tomonidan keltirib o'tilgan. Shuning uchun ushbu ishda tomchi, ikkiyoqlama immunodiffuziya, immunoferment analizi (IFA) usulining «to'g'ri», «noto'g'ri» va «sendvich» kabi variantlarining sezgirlik darajasi solishtirilgan hamda ularning ichidan IFAning sendvich variantining sezgirlik darajasi eng yuqori, ya'ni 10^{-9} ekanligi aniqlandi. Ushbu tajribalarda antigen sifatida kartoshka X-virusidan (KXV) foydalanildi.

Kalit so`zlar: Kartoshka X-virusi, immunoferment analizi, tomchi usuli, ikkiyoqlama immunodiffuziya, antigen, mozaika, antitana, antizardob.

DETERMINATION OF THE SENSITIVITY OF DIFFERENT IMMUNOLOGICAL METHODS AND ELISA VARIANTS BASED ON ANTIGEN POTATO VIRUS X

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ABSTRACT

To date, a number of methods are used to diagnose phytoviruses, each of which has its own specific sensitivity. Among these methods, immunological methods have

the advantage of their sensitivity and ability to simultaneously detect multiple samples. In recent years, a number of authors have reported that the sensitivity of immunological methods that have emerged as a result of the development of biotechnology is higher than that of previously used methods.

Thus, this study compared the sensitivity levels of drip, bilateral immunodiffusion and “correct”, “incorrect” and “sandwich” variants of the enzyme immunoassay (IFA) method, and the sandwich version of IFA had the highest sensitivity, ie 10^{-9}. Potato Virus X (PVX) was used as antigen in these experiments.

Keywords: Potato virus X, enzyme immunoassay, immunodiffusion, antigen, mosaic, antibodies.