Koppert

V10

The ultimate solution to control Pepino mosaic virus

Advantages

- For protection of tomato plants against damaging symptoms of Pepino mosaic virus (PepMV)
- Wide coverage of strains due to the combination of two asymptomatic strains in the product
- Strong protection against loss of yield and quality

Protection against PepMV

Prevention is key! The best way to stay protected is by building natural immunity through cross protection. With cross protection, young plants are ‘vaccinated’ with mild variants of a virus. This prepares them and protects them against the symptoms of the aggressive variants of that virus all year. This natural method of resilience is safe for humans, animals and the environment.

Mode of action

Following inoculation with V10, asymptomatic PepMV isolates VC1 and VX1 become established throughout the plant. Infection by other PepMV isolates is severely compromised due to its degradation by RNA silencing, a natural biological process that regulates gene expression and defends plants against virulent viruses.

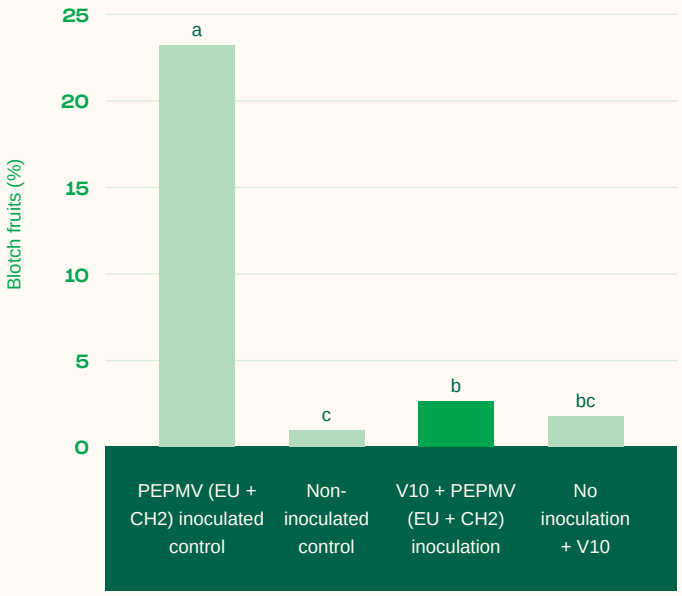
In this way the plant is equipped with a high level of protection against subsequent attempted infections by virulent PepMV strains. V10 is effective against the virulent Pepino mosaic virus strains PepMV EU, PepMV LP, PepMV CH2, and provides a moderate protection against PepMV US1.

Results

Extensive trials have shown that V10 can prevent severe disease symptoms of PepMV when applied preventively. Furthermore, V10 prevents potential yield losses which can be caused by PepMV.

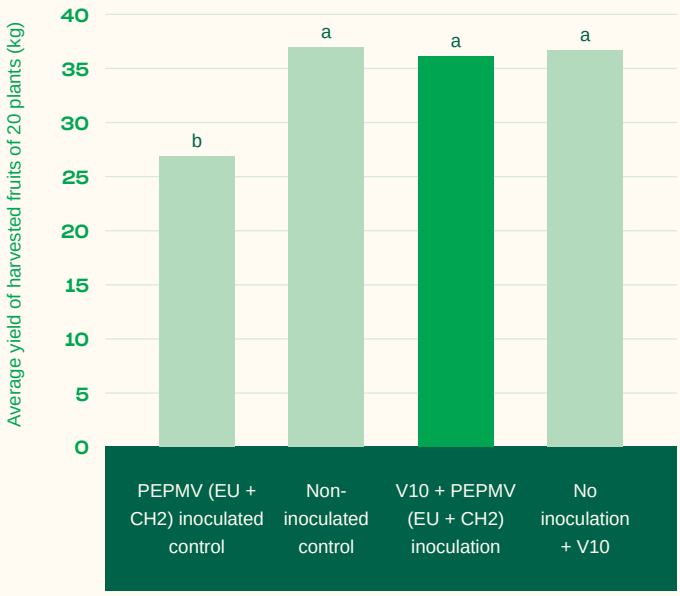
Years of experience with V10 from satisfied growers around the world confirm these findings.

Percentage blotchy fruits over six trials



Compilation of six trials conducted on tomatoes in 2012 and 2013 in the Netherlands. Fruits were evaluated weekly for PepMV-related viral symptoms throughout the trial period. Values with different letters above the columns are significantly different. Source: Vermunt, A. M. W., & Kaarsemaker, R. C. (2017). *Multi-genotype cross-protection against Pepino mosaic virus in tomato*. Crop Protection, 96, 116–122.

Average yield of harvested fruits over six trials



Compilation of six trials conducted on tomatoes in 2012 and 2013 in the Netherlands. The average weight of harvested fruits from a plot of 20 plants (four replicates per plot) in 6 trials, in kilograms for the 6 treatments. Values with different letters above the columns are significantly different. Source: Vermunt, A. M. W., & Kaarsemaker, R. C. (2017). *Multi-genotype cross-protection against Pepino mosaic virus in tomato*. Crop Protection, 96, 116–122.

Application

- Apply V10 to newly planted tomato crops, preferably as soon as possible and the latest before the first flowers start to open.
- Apply V10 to the plant by using a sponge with a scouring pad wipe and slightly wet the upper surface of the leaf with V10 solution. Select a fully expanded leaf which is positioned below the growing point, treat one leaf per stem.

For more information, scan this QR code

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