

# Product Information: AgriStrip Pepino mosaic virus (PepMV)

## Intended use

This test is intended to identify PepMV. This virus spreads easily by mechanical means and infects tomato and other solanaceous plants. The symptoms of PepMV are distortion, bubbling, and chlorosis on leaves and marbling appearance of fruits.

## Specificity and Sensitivity

The antibodies used for this AgriStrip assay were made against different isolates of PepMV (TX1, AZ2, CH1, CH2) representing European, as well as North and South American genotypes, respectively (Ling *et al.* 2008\*). The test specifically detects PepMV in leaf tissue, but not on fruit and seeds of tomato and pepino. The antibodies show no cross-reactivity with other Potexvirus such as PVX. Strongest coloration of testbands was obtained with a 1:240 (w/v) dilution of an extract of infected tomato leaves.

\*Ling, K.S., Wintermantel, W. M., and Bledsoe, M. 2008. Genetic composition of Pepino mosaic virus population in North American greenhouse tomatoes. *Plant Disease* 92: 1683-1688.

## Instructions for use

- 1) Place not more than 0.05 g of leaf (1.6 x 1.6 cm) into an extraction bag (Fig. 1\*) and add 3 ml of **AgriStrip extraction buffer A** with a disposable pipette (1:60 w/v).
- 2) Homogenize the tissue with a handheld homogenizer with a few movements for not more than 2 seconds (Fig. 2\*).
- 3) **Transfer 1 drop of extract into a cuvette** (Fig. 3\*) **and dilute with 3 drops of extraction buffer** (gives a total of 4 drops with a volume of approx. 150µl at a final dilution of 1:240 w/v).
- 4) Insert the end of the strip marked «sample» into the extract (Fig. 4\*) and observe formation of colored bands.

\* For figures, please refer to «AgriStrip General Information».

Maximal  
sample size

1.6 x 1.6  
cm

## Ordering Information

Product	Art. No.	Assays
PepMV <b>AgriStrip</b> Complete kit 25	161581	25
PepMV <b>AgriStrip</b> Set 25	161582	25
PepMV <b>AgriStrip</b> Set 100	161583	100
Optional Products	Art. No.	Size
Cuvette rack, holds 12 cuvettes	2166	1
Cuvettes, disposable	2534	100
Pipettes, disposable	2292	500
Extraction bags Universal	430100	100
Homogenizer hand model	400010	1

1/1

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Adaptations from last version: testing on fruit samples is not recommended.