

Product Information: AgriStrip

Tomato mosaic virus (ToMV)

Intended use

This test is intended to detect ToMV in suspicious plant samples. This virus spreads rapidly by mechanical means as well as by plant-to-plant contact. The disease is most important on tomato, pepper, and tobacco, but the host range includes species from more than 9 families. Symptoms can include mottle, mosaic or necrosis on leaf, stem or fruit.

Specificity and Sensitivity

The antibodies used for this AgriStrip assay were made against an isolate of ToMV strain 'Dahlemense' from Germany, propagated in *Nicotiana tabacum* cv. Samsun-NN (S. Winter, personal communication). The antibodies show cross-reactivity with the Tobamoviruses tobacco mosaic virus (TMV), tobacco mild green mosaic virus (TMGMV) (S. Winter, personal communication) and tomato brown rugose fruit virus (ToBRFV). No cross reactivity was observed with the Tobamoviruses cucumber green mottle mosaic virus (CGMMV) and pepper mild mottle virus (PMMoV). Sensitivity was comparable to the DAS-ELISA format and strongest coloration of test bands was obtained with a 1:80 to 1:500 (w/v) dilution of an extract of infected tomato leaves.

Instructions for use

- 1) Place approx. 1 g of leaf (corresponds to the size of 1 Euro coin or $\approx 5 \text{ cm}^2$) into an extraction bag (Fig. 1*) and add 3 ml of **AgriStrip extraction buffer A** with a disposable pipette (1:30 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.**
- 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



Ordering Information

Product	Art. No.	Assays
ToMV AgriStrip Complete kit 25	152681	25
ToMV AgriStrip Set 25	152682	25
ToMV AgriStrip Set 100	152683	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

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Adaptations from last version: Additional information about cross-reactivity.