Tobacco mosaic virus (TMV)

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Intended use

This test is intended to identify TMV. This virus spreads easily by mechanical means and is known to infect members of 30 plant families, and more than 150 individual species, including tobacco, tomato, pepper, cucumbers, and a number of ornamental flowers. The symptoms of TMV are leaf mosaic and severe crop losses.

Specificity and Sensitivity

The antibodies used for this AgriStrip assay were made against isolate «FAL-76» obtained from the Swiss Federal Research Station for Agroecology and Agriculture, Agroscope FAL (P. Gugerli, *personal communication*). The antibodies show cross-reactivity with some isolates of tomato mosaic virus (ToMV) and tomato brown rugose fruit virus (ToBRFV). Strongest coloration of testbands was obtained with a 1:60 to 1:120 (w/v) dilution of an extract of infected tobacco leaves.

Instructions for use

1) Place approx. 0.1 g of leaf (corresponds to the size of 1 Euro coin or ≈ 5 cm²) 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
TMV **AgriStrip** Complete kit 25	190481	25
TMV **AgriStrip** Set 25	190482	25
TMV **AgriStrip** Set 100	190483	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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