

Product Information: AgriStrip

Impatiens necrotic spot virus (INSV)

Intended use

This rapid one-step assay is intended to identify Impatiens necrotic spot virus (INSV), which is widespread and devastating in the greenhouse industry. INSV is transmitted by thrips and infects predominantly ornamentals such as begonia, carnation, chrysanthemum, dahlia, geranium, gladiolus, Impatiens, narcissus, orchids, Petunia, etc.

INSV causes a wide variety of symptoms including wilting, stem death, stunting, yellowing, poor flowering, „chicken pox-like“ sunken spots on leaves, etches or ring spots on leaves, and many others. Virus symptoms depend upon what time of year the plant is infected, its age and physiological state when infected, growing conditions in the greenhouse and the strain of virus present. Synonyms: TSWV-I, NL-07.

Specificity and Sensitivity

The antibodies used for this AgriStrip assay were made against an isolate of INSV from *Hippeastrum* and react specifically with INSV (serogroup III within the genus Tospovirus). The INSV AgriStrip does not cross-react with TSWV, TCSV, and GRSV (serogroup I and II within the genus Tospovirus). Strongest coloration of testbands was obtained with a 1:60 (w/v) dilution of an extract of infected petunia leaves.

Instructions for use

- 1) Place approx. 0.1 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 2 drops of extract into a cuvette (Fig. 3*) and dilute with 2 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
INSV AgriStrip Complete kit	190281	25
INSV AgriStrip Single strips*	190282	25
INSV AgriStrip Single strips*	190283	100
* including AgriStrip Extraction buffer A, ready-to-use		
Optional Products	Art. No.	Size
Cuvette rack, holds 12 cuvettes	2166	1
Cuvettes, disposable	2534	100
Pipettes, disposable	2292	500
Extraction bags «Universal»	430100a	100
Homogenizer hand model	400010	1

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