

Product Information: AgriStrip

Lettuce mosaic virus (LMV)

Intended use

This test is intended to detect LMV in suspicious lettuce leaf samples. This virus spreads easily by seeds and aphid vectors. It is most important on lettuce. The symptoms include necrotic or chlorotic local lesions and streaking, then mosaic, vein yellowing, and leaf malformation. For seed testing we recommend using the DAS-ELISA format (BIOREBA Art. No. 160512/160522). The AgriStrip for LMV detection does not work with seeds.

Specificity and sampling instruction

The reagents used for this AgriStrip were made against an isolate of LMV, originally from the Salinas Valley, California, USA (R.L. Gilbertson, personal communication), maintained at Agroscope, the Swiss centre of excellence for research in the agriculture and food sector, under isolate number LMV 1070. This test specifically reacts with LMV. Strongest coloration of testbands was obtained with a 1:10 to 1:40 (w/v) dilution of an extract of infected lettuce leaves.

Instructions for use

- 1) Place approx. 0.3 g of leaf ($\approx 10 \text{ cm}^2$) into an extraction bag (Fig. 1*) and add 3 ml of **AgriStrip extraction buffer B** with a disposable pipette (1:10 w/v).
- 2) Homogenize the tissue with a handheld homogenizer thoroughly for about 4 seconds (Fig. 2*).
- 3) **Transfer 4 drops of extract (approx. 150 μl) into a cuvette** (Fig. 3*).
- 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

10 cm²

Ordering Information

| Product | Art. No. | Assays |
|---------------------------------|----------|--------|
| LMV AgriStrip Complete kit 25 | 160581 | 25 |
| LMV AgriStrip Set 25 | 160582 | 25 |
| LMV AgriStrip Set 100 | 160583 | 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

Version: 3 - 31.08.2018

Adaptations from last version: new ordering information; minor modifications.