

Product Information: DAS-ELISA

Lettuce mosaic virus (LMV)

LMV (2) is sap-transmissible to a wide range of species, often seed-borne in lettuce and transmitted by several aphid species in a non-persistent manner. It has a world-wide distribution and a relatively broad host range among dicotyledonous plants, including many *Asteraceae*. LMV can cause economic losses in cultivated *Asteraceae*, especially lettuce and ornamentals. It causes various mosaic and mottle symptoms in all types of lettuce. Natural infection has also been reported in endive/escarole, pea, chickpea, mustard, spinach, safflower and various ornamentals.

Specificity and sampling instruction

The coating reagent contains polyclonal, the conjugate monoclonal antibodies. Both antibodies were made against the LMV isolate LMV-R, belonging to pathotype II and isolated from firestone plants in the Salinas Valley, California, USA (R.L. Gilbertson, personal communication). The isolate is maintained at Agroscope, the Swiss centre of excellence for research in the agriculture and food sector, under isolate number LMV 1070. The reagents specifically react with LMV and are suitable for testing leaf and seed samples. Leaf extracts should be prepared at a ratio of 1:20 in extraction buffer «General» (Art. No. 110120). For testing seeds, we recommend soaking them overnight in our special extraction buffer «Bulbs & Tubers» (Art. No. 110122) containing egg albumin (ovalbumin) at a ratio of 1:20 (w/v) before homogenization.

Information on the antibodies

Coating IgG: polyclonal; conjugate: monoclonal

References

- (1) Clark, M.F., and Adams, A. N. 1977. J. Gen. Virol. 34:475-483.
- (2) Tomlinson, J.A. 1970. Descriptions of plant viruses. No. 9. CMI/AAB. 4 pp.
- (3) Zerbini, F.M., Koike, S.T., and Gilbertson, R.L. 1995. Phytopathology 85:746-752.

Ordering Information

BIOREBA offers the following formats:

Individual ELISA reagents for 96, 480 or 960 assays: IgG and/or conjugate for the working volume of 200 µl/test/well.

Reagent sets for 480 or 960 assays: IgG and conjugate, positive and negative controls, and microtiter plates (F-96) for a working volume of 200 µl/test/well.

Complete kits for 96, 480 or 960 assays: All reagents, controls, microtiter plates (F-96), buffers, and substrate necessary for a working volume of 200 µl/test/well.

ELISA buffers, equipment for sample preparation and disposables are also available.

For all Art. No. please refer to our product catalogue or our homepage www.bioreba.com and for prices and further information on any other product from BIORREBA, please contact your local distributor or our office in Switzerland.

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Adaptations from last version: Update for specificity and sampling instructions.