

Product Information: DAS-ELISA

Mirafiori lettuce big-vein virus (MiLBVV)

Synonym: *Ophiovirus mirafioriense*

MiLBVV (3), genus *Ophiovirus*, is vectored by the soilborne fungus *Olpidium brassicae*. This virus, formerly referred to as Mirafiori lettuce virus, is now recognized as the causal agent of lettuce big-vein disease. In the past, this disease was suspected to be caused by another soil-borne virus, Lettuce big vein-associated virus (LBVaV; genus *Varicosavirus*) transmitted by the same fungal vector but serologically unrelated to MiLBVV.

Specificity and sampling instruction

The reagents consist of two polyclonal antibodies raised against the same MiLBVV isolate (I-47 from Italy) and allow specific detection of MiLBVV in DAS-ELISA (1). Best results are obtained with leaf extracts prepared at a ratio of 1:10 (w/v) in extraction buffer «General» (Art. No. 110120).

The product is based on antibodies from the National Research Council (Institute for Sustainable Plant Protection), Torino, Italy; and the Julius Kühn-Institut (JKI) Braunschweig, Germany (Bundesforschungs-institut für Kulturpflanzen; Institut für Epidemiologie & Pathogendiagnostik).

Information on the antibodies

Coating IgG: polyclonal; conjugate: polyclonal

References

- (1) Clark, M.F., and Adams, A.N. 1977. J. gen. Virol. 34:475-483.
- (2) Lot, H., Campbell, R.N., Souche, S., Milne, R.G., and Roggero, P. 2002. Phytopathology 92:288-293.
- (3) Roggero, P., Ciuffo, M., Vaira, A.M., Accotto, G.P., Masenga, V. and Milne, R.G. 2000. Arch. Virol. 145 (12):2629-2642.
- (4) Verbeek, M., van der Wilk, F., Vetten, H.J., and van der Heuvel, J.F.J.M. 2001. DPG-AK Viruskrankheiten der Pflanzen – Abstracts 2001.
- (5) Vetten, H.J., and Walsh, J. 2003. DPG-AK Viruskrankheiten der Pflanzen – Abstracts 2003.

Ordering Information

BIOREBA offers the following formats:

Individual ELISA reagents for 100, 500 or 1000 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 BIOREBA, please contact your local distributor or our office in Switzerland.

1/1

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Adaptations from last version: added revised taxonomy of ICTV and assays of individual ELISA reagents.