

Product Information: DAS-ELISA

Pelargonium line pattern virus (PLPV)

Synonym: Pelarspovirus lineapelargonii

PLPV (1) has been found in Europe and USA. The virus is transmitted mechanically, by grafting and by contact between plants, but not by seed. Symptoms vary seasonally. PLPV causes veinal flecks and line pattern in pelargonium leaves. After infection the plant remains symptomless for a long period of time. The virus is serologically different from Pelargonium ring spot virus (PelRSV) and related to Pelargonium chlorotic ring pattern virus (PCRVP) in nucleotide sequence and genome organisation.

Specificity and sampling instruction

The reagent was made against an isolate of *Pelargonium peltatum* (S. Winter, personal communication) and specifically reacts with PLPV in DAS-ELISA (2). The virus can generally be detected reliably in *P. zonale* throughout the year. In *P. peltatum*, however, virus distribution is uneven. The reliability is improved in tests of petioles compared to leaf blades (lamina) (1). Samples are homogenised 1:20 (w/v) in extraction buffer «General» (Art. No. 110120).

The product is based on antibodies developed by the Leibniz Institute DSMZ GmbH, Braunschweig, Germany.

Information on the antibodies

Coating IgG: polyclonal; conjugate: polyclonal

References

- (1) Bouwen, I., and Maat, D.Z. 1992. Neth. J. Pl. Path. 98:141-156.
- (2) Clark, M.F., and Adams, A. N. 1977. J. gen. Virol. 34:475-483.

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

Version: 5 - 09.05.2025

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