

Product Information: DAS-ELISA

Pelargonium leaf curl virus (PLCV)

Synonym: Tombusvirus pelargonii

Pelargonium Leaf Curl or Crinkle is caused by the Pelargonium leaf curl virus (PLCV) (2), a strain of tomato bushy stunt virus. It occurs in Europe, the Mediterranean region and in North America. The incidence of the disease ranges up to 45 percent in various greenhouse stocks. The prevalence and severity of infections differ according to the cultivar involved. Infected cuttings taken in autumn from apparently healthy plants may exhibit typical symptoms when new leaves develop during winter and early spring. The severity of the symptoms increases until the middle of spring, when recovery begins. The plants are symptomless during the summer months, and PLCV is difficult to isolate from them at this time. The causal virus is graft-transmitted, and sap-transmissible with some difficulty, but not transmitted by seed.

Specificity and sampling instruction

The reagent was made against an isolate of PLCV (S. Winter, personal communication) and specifically reacts with PLCV in DAS-ELISA (1). Symptomatic leaves (during winter and early spring) are best tissue sources for testing. 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) Clark, M.F., and Adams, A. N. 1977. J. gen. Virol. 34:475-483.
 (2) Hollings, M., and Stone, O.M. 1965. Ann. Appl. Biol. 56:87-96.

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.