

Product Information: DAS-ELISA

Garlic common latent virus (GCLV)

Synonym: Carlavirus latensallii

Garlic common latent virus (GCLV) is the most common garlic carlavirus (besides shallot latent virus). GCLV has first been described in France as garlic latent virus. Later the name GCLV was proposed in order to avoid confusion with Japanese Garlic latent virus (GLV). GCLV was reported on garlic from Asia, Europe, South America and also from North America. Besides garlic, GCLV infects leek, onion and chives.

Specificity and sampling instruction

The reagents contain different polyclonal antibodies. The coating IgG consist of polyclonal antibodies developed against a virus mixture from infected garlic (*Allium sativum*). The conjugate contains polyclonal antibodies that were made against a garlic (*Allium sativum*) isolate of GCLV from China, isolated by C.T. Deng, Taiwan. The antigen for rabbit immunization was purified from *Chenopodium quinoa* (1).

The reagents specifically react with GCLV isolates from all *Allium* species in DAS-ELISA (2). No cross-reaction has been observed with Onion yellow dwarf virus (OYDV), Leek yellow stripe virus (LYSV), Shallot latent virus (SLV), and with the Carlaviruses Potato virus M (PVM) and Potato virus S (PVS). A special extraction buffer «Bulbs & Tubers» (Art. No. 110122), containing egg albumin (ovalbumin), is used for testing *Allium* species (bulbs and leaves). Samples are homogenised 1:20 (w/v).

The product includes antibodies developed by the Leibniz Institute DSMZ GmbH, Braunschweig, Germany.

Information on the antibodies

Coating IgG: polyclonal; conjugate: polyclonal

References

- (1) Barg, E., Lesemann, D.E., Vetten, H.J., and Maiss, E. 1995. Advances in Vegetable Virus Research. Proc. 8th Conf. on Virus Diseases of Vegetables. Prague, Czech Republic, pp. 26-28.
- (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.

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Adaptations from last version: incorporation of a new polyclonal antibody in the coating IgG