Product Information: DAS-ELISA

Allium-Virus (Allium)

Onion yellow dwarf virus (OYDV, *Potyvirus cepa*), Garlic common latent virus (GCLV, *Potyvirus ampeloprasi*) and Leek yellow stripe virus (LYSV, *Carlavirus latensalii)* occur worldwide, and commonly infect *Allium* species like garlic (*Allium sativum*), onion (*Allium cepa*) and leek (*Allium porrum*). Viruses infecting *Allium* species ("Allium-Viruses") cause significant economic damage, particularly in cases of a complex infection (1).

Specificity and sampling instruction

These reagents contain polyclonal antibodies developed against a virus mixture from infected garlic (*Allium sativum).*

The reagents specifically react with OYDV, GCLV and LYSV in DAS-ELISA (2). No cross-reactivity was observed with Shallot latent virus (SLV), Iris yellow spot virus (IYSV) and unidefined members of the genus *Allexivirus*. Weak cross-reactivity of the antibodies with Zucchini yellow mosaic virus (ZYMV) and very weak cross-reactivity with Potato virus A (PVA) and Bean common mosaic virus (BCMV) may be possible. A special extraction buffer, «Bulbs & Tubers» (Art. No. 110122) containing egg albumin (ovalbumin), is used for testing *Allium* species. Samples are homogenised 1:20 (w/v).

Information on the antibodies

Coating IgG: polyclonal; conjugate: polyclonal

References

(1) Koczor, A. 2024. Physiological and Molecular Plant Pathology. 134:102394

(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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