

Product Information: DAS-ELISA

Tomato bushy stunt virus (TBSV)

Synonym: Tombusvirus lycopersici

Many plant families are susceptible to TBSV (2), the main affected crops are tomato, pepper, tulips and artichokes. Infected plants are generally stunted and show symptoms of systemic mosaic, mottle and deformation of leaves and/or fruits. The virus is transmitted by mechanical inoculation, by grafting, by seed (at a low rate), possibly by pollen to the seed, but not by contact between plants. TBSV is present in soils from which it can be acquired by host plants (3). The virus occurs in Europe, the Mediterranean basin, as well as in North and South America.

Specificity and sampling instruction

The reagents were made against TBSV isolate Bs3 (4, and M. Turina, *personal communication*) and react with TBSV in DAS-ELISA (1). All strains of TBSV tested so far have been detected in DAS-ELISA (1). Samples are homogenized 1:20 (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.

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) Martelli, G.P., Quacquarelli, A. and Russo, M. 1971. Descriptions of plant viruses. No. 69. CMI/AAB. 4pp.
- (3) Martelli, G.P., Russo, M., and Gallitelli, D. 1989. Descriptions of plant viruses. No. 352. CMI/AAB. 8pp.
- (4) Wetter, C., and Luisoni, E. 1969. Phytopath. Z. 65, 231-242.

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: added revised taxonomy of ICTV and assays of individual ELISA reagents.