

Product Information: DAS-ELISA

Tomato mosaic virus (ToMV)

Synonym: Tobamovirus tomatotessellati

ToMV (2) is economically damaging in greenhouse and outdoor tomato crops in many countries. The virus is readily spread by handling and cultural operations. It also contaminates seeds and soil, but no natural vector is known. It is readily sap-transmissible to a fairly wide range of herbaceous plant species. The virus is widespread and often epidemic in tomato crops. Disease symptoms are greatly influenced by temperature, daylength, light intensity, age of plant, virus strain and cultivar of tomato. Many solanaceous species are susceptible to the virus. Most susceptibles produce necrotic local lesions, sometimes followed by systemic mosaic-mottling and necrosis. Most species tested in the families *Aizoaceae*, *Amaranthaceae*, *Chenopodiaceae* and *Scrophulariaceae* are also susceptible.

Specificity and sampling instruction

The DAS-ELISA reagents (1) were made against an isolate of ToMV strain 'Dahlemense' from Germany, propagated in *Nicotiana tabacum* cv. Samsun nn (S. Winter, personal communication). The antibodies show cross-reactivity with the tobamoviruses tobacco mosaic virus (TMV), tomato brown rugose fruit virus (ToBRFV) and tobacco mild green mosaic virus (TMGMV); S. Winter, personal communication). 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 Huttinga, H. 1976. Descriptions of plant viruses. No. 156. CMI/AAB. 6 pp.

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.