

Product Information: DAS-ELISA

Tobacco mosaic virus (TMV)

Synonym: Tobamovirus tabaci

TMV (2) causes diseases in a broad variety of plant species. It has no known true vectors, but can be transmitted by chewing insects. It is normally transmitted mechanically. Many plant species are affected. The distinction between the type strain and other tobamoviruses is often not possible. In tobacco the virus elicits a mosaic but may also cause veinbanding. The virus is known to infect at least 199 species from 30 plant families.

Specificity and sampling instruction

These DAS-ELISA reagents (1) were made against an isolate («FAL-76») obtained from Agroscope, the Swiss centre of excellence for research in the agriculture and food sector (P. Gugerli, personal communication). The antibodies show cross-reactivity with some isolates of tomato mosaic virus (ToMV) and the tobamoviruses cucumber green mottle mosaic virus (CGMMV) and tomato brown rugose fruit virus (ToBRFV). Samples are homogenised 1:20 (w/v) in extraction buffer «General» (Art. No. 110120).

The product was developed in cooperation with Agroscope, the Swiss centre of excellence for research in the agriculture and food sector.

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) Zaitlin, M., and Israel, H.W. 1975. Descriptions of Plant Viruses. No. 151. CMI/AAB. 5 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.