

Product Information: DAS-ELISA

Pepper mild mottle virus (PMMoV)

Synonym: Tobamovirus capsici

PMMoV is easily transmitted by mechanical inoculation, by handling during cultivation and through contaminated seeds. There is no biological vector known. The virus is of economic importance for pepper crops, particularly under glasshouses and plastic tunnel conditions. Mild leaf chlorosis and growth reduction occur in naturally infected commercial pepper cultivars. Fruits are small, malformed, mottled, and sometimes develop necrotic depressed areas. Stunting is very severe in *Capsicum* spp. infected at early stages of growth. In field crops, infection may reach 100% and the yield of marketable fruits is drastically reduced. The virus occurs worldwide (2).

Specificity and sampling instruction

The reagents were made against an isolate from pepper (*Capsicum annum*) (P. Roggero, pers. communication) and specifically detect PMMoV 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) Wetter, C, and Conti, M.. 1988. Descriptions of plant viruses. No. 330. CMI/AAB. 4pp.

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.