

## Product Information: DAS-ELISA

# Petunia asteroid mosaic virus (PeAMV)

**Synonym: Tombusvirus petuniae**

Several plant families are susceptible to Petunia asteroid mosaic virus (PeAMV, a tombusvirus) (1,4). Main affected crops are Petunia, hop, cherry, plum, spinach. Infected plants mostly show symptoms of yellow mottling and necrotic lesions (veinal necrosis) on leaves, leaf and shoot distortion, stunting, and fruits with sunken pits. The virus is transmitted by mechanical inoculation or by grafting, and is present in soils from which it can be acquired by host plants (4). The virus occurs in the Eurasian region as well as in North America.

## Specificity and sampling instruction

The reagents were made against an isolate of PeAMV (5, and M. Turina, personal communication) and react with PeAMV in DAS-ELISA (2); they also cross-react with the related tomato bushy stunt virus (TBSV) (3,4,5). All strains of PeAMV tested so far have been detected. 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) Brunt, A.A., Crabtree, K., Dallwitz, M.J., Gibbs, A.J., Watson, L. and Zurcher, E.J. (eds.) (1996 onwards). 'Plant Viruses Online: Descriptions and Lists from the VIDE Database. Version: 20th August 1996.'
- (2) Clark, M.F. and Adams, A.N. 1977. J. gen. Virol. 34:475-483.
- (3) Martelli, G.P., Quacquarelli, A. and Russo, M. 1971. Descriptions of plant viruses. No. 69. CMI/AAB. 4pp.
- (4) Martelli, G.P., Russo, M., and Gallitelli, D. 1989. Descriptions of plant viruses. No. 352. CMI/AAB. 8pp.
- (5) 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](http://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.