

Product Information: DAS-ELISA

Squash mosaic virus (SqMV)

Synonym: *Comovirus cucurbitae*

SqMV (1) is transmitted by mechanical inoculation, by beetles and by embryo infection of seeds. Infected plants may be symptomless or may show various symptoms on leaves and fruits. SqMV is widely distributed in the Western Hemisphere. Because it is seed-borne it has probably been introduced wherever seeds have been imported from the Western Hemisphere. Unless insect vectors are present, it probably will not spread. Natural host range is limited to *Cucurbitaceae*, in which most species are susceptible.

Specificity and sampling instruction

These reagents were made against a melon isolate of SqMV (3) and react with isolates of different host plants (broad-spectrum reagent) in DAS-ELISA (2). The best sampling time, e.g., for the melons and other cucurbits, is during the active growing season. Symptomatic leaves are the best tissue source for testing. Samples are homogenised 1:20 (w/v) in extraction buffer «General» (Art. No. 110120).

The product is based on antibodies from the Cornell University, New York State Agricultural Experiment Station, Geneva, NY, USA.

Information on the antibodies

Coating IgG: polyclonal; conjugate: polyclonal

References

- (1) Campbell, R.N. 1971. Descriptions of plant viruses. No. 43. CMI/AAB. 4 pp.
- (2) Clark, M.F., and Adams, A. N. 1977. J. gen. Virol. 34:475-483.
- (3) Hu, J. S., Pang, S. Z., Nagpala, P. G., Siemieniak, D. R., Slightom, J. L. and Gonsalves, D. 1993. Arch. Virol. 130: 17-31.

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.