

## Product Information: DAS-ELISA

# Zucchini yellow mosaic virus (ZYMV)

**Synonym: Potyvirus cucurbitaflavitesselati**

ZYMV (3) is easily transmitted by aphids in a non-persistent manner. It causes economically important diseases in cucurbit crops in several Mediterranean countries, Central Europe, Taiwan, Australia and the USA. Severe disease symptoms consisting of mosaic, yellowing, shoestringing, stunting, and fruit and seed deformations are produced in zucchini squash, muskmelon, cucumber and watermelon.

### Specificity and sampling instruction

The reagents contain antibodies made against a Swiss isolate of ZYMV (2) and a US isolate from Florida (4) and react with ZYMV in DAS-ELISA (1). The best sampling season, for example for the cucurbits, is when plants are actively growing. Symptomatic leaves are the best tissue source for testing. They 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; and the Cornell University, New York State Agricultural Experiment Station, Geneva, NY, USA.

### 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) Gugerli, P. 1993. Annual report - Swiss Fed. Agric. Res. Stat. of Changins 1992-1993, pp. 96.
- (3) Lisa, V., and Lecoq, H. 1984. Descriptions of plant viruses. No. 282. CMI/AAB. 4pp.
- (4) Wang, H. L., Gonsalves, D., Provvidenti, R. and Zitter, T. A. 1992. Plant Dis 76: 530-535.

### 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.