

Product Information: DAS-ELISA

Maize dwarf mosaic virus (MDMV)

MDMV (2) infects numerous species in the *Gramineae*. It is transmissible mechanically and by several aphid species in a non-persistent manner. Field and sweet corn, grain and fodder sorghum are important natural hosts, developing mosaic and occasional necrotic foliage symptoms. Genetic resistance in maize is available in several inbred lines. The virus possibly occurs wherever maize and sorghum are grown throughout the world except that it is not reported from Australia. Cultivated wheat, barley, oat, rye and rice are non-hosts.

Specificity and sampling instruction

This DAS-ELISA reagent (1) was made against an isolate of MDMV from maize in Germany (3, and Fuchs, E., *personal communication*). It specifically detects MDMV, strains A, C, D, E and F. It shows a weak reaction with sugarcane mosaic virus (SCMV), formerly named MDMV strain B and considered to be a strain of one virus (SCMV is detected with our reagent «SCMV»). Samples are homogenised 1:20 (w:v) in extraction buffer «General» (Art. No. 110120).

The product was developed in cooperation with the Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany.

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) Ford, R.E., Tomic, M., and Shukla, D.D. 1989. Descriptions of plant viruses. No. 341. CMI/AAB. 5pp.
- (3) Fuchs, E., Grüntzig, M., and Kozelska, S. 1987. Zentralbl. Mikrobiol. 142:41-47.

Ordering Information

BIOREBA offers the following formats:

Individual ELISA reagents for 96, 480 or 960 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: new ordering information; minor modifications.