

Product Information: DAS-ELISA Sugarcane mosaic virus (SCMV)

SCMV (3), a potyvirus, infects numerous species in the *Gramineae*. The virus is transmitted by inoculation of sap and in a non-persistent manner by aphids. SCMV causes mosaic diseases in sugarcane and some other graminaceous plants and occurs in most parts of the world where sugarcane is grown. Strains adapted to perennial hosts other than sugarcane may occur remote from sugarcane plantations. Sorghum, maize and some wild grasses growing near infected sugarcane may be infected naturally. Although sap transmission tests have shown that many graminaceous species are susceptible, cultivated cereals such as wheat, barley, rye and rice are rarely infected naturally.

Specificity and sampling instruction

These reagents were made against an isolate of SCMV from maize in Germany (2, E. Fuchs, *personal communication*, and W. Huth, BBA). The reagents specifically detects SCMV, formerly named maize dwarf mosaic virus (MDMV) strain B in DAS-ELISA (1). They show a weak cross reaction with MDMV and do not detect Johnsongrass mosaic virus, once considered to be strains of one virus (MDMV is detected with our reagent «MDMV»). Samples are homogenized 1:20 (w:v) in extraction buffer «General» (Art. No. 110120).

The product is based on antibodies developed by the Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, and the former BBA, Braunschweig, 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) Fuchs, E., Grüntzig, M., and Kozelska, S. 1987. Zentralbl. Mikrobiol. 142:41-47.
- (3) Teakle, D.S., Shukla, D.D., and Ford, R.E. 1989. Descriptions of plant viruses. No. 342. CMI/AAB. 5pp.

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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Version: 4 - 01.10.2023
Adaptations from last version: new antibody in coating IgG.