

Product Information: DAS-ELISA

Radish mosaic virus (RaMV)

Synonym: Comovirus raphani

Radish Mosaic Virus (1) (RaMV, a comovirus) (Synonym: Radish enation mosaic virus) is known to infect almost all crucifers. Main affected crops are different cruciferous plants such as rape, mustards, cabbage, arugula (*Eruca sativa*), and false flax or gold-of-pleasure (*Camelina sativa*). Symptoms include mosaic, ringspots, leaf distortion, veinal necrosis and systemic necrosis. Infected radish plants may show leaf venations. In cauliflower and cabbage symptoms appear as chlorotic and necrotic lesions along with a mosaic. The virus is transmitted by various beetles and is present in both crop plants and weeds, which serve as reservoirs for spreading of the disease. The virus has been found in Japan, Europe, North Africa and USA.

Specificity and sampling instruction

The reagents were made against a Czech virus isolate (designated RaMV-1) of winter turnip rape (3). They react specifically with RaMV in DAS-ELISA (2). All isolates of the different "strain groups" are detected in DAS-ELISA (2), even though serological variability has been demonstrated by gel diffusion tests (4). Samples are homogenized 1:20 (w/v) in extraction buffer «General» (Art. No. 110120).

The product was developed in cooperation with the Institute of Plant Molecular Biology, Ceske Budejovice, Czech Republic.

Information on the antibodies

Coating IgG: polyclonal; conjugate: polyclonal

References

- (1) Campbell, R.N. 1973. Descriptions of plant viruses. No. 121. CMI/AAB. 4pp.
- (2) Clark, M.F. and Adams, A.N. 1977. J. gen. Virol. 34:475-483.
- (3) Spak, J. 1992. Acta virol. 36:191-197.
- (4) Spak, J., and Kubelkova, D. 2000. Plant Pathology 49:295-301.

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.