

Product Information: DAS-ELISA

Tomato black ring virus (TBRV)

TBRV (3), a nepovirus, has a wide host range and infects many economically important crops such as tomato, potato, grapevine, small fruits (berry crops) several vegetables, etc. The virus shows quite some antigenic variation between strains.

Specificity and sampling instruction

This broad-spectrum DAS-ELISA reagent (1) contains complementary polyclonal and monoclonal antibodies to different virus isolates. The polyclonal antibodies were raised against an isolate of grapevine (infected grapevine was originally from Agriculture Canada, Vineland, Ontario, Canada; C. Masters, personal communication). The monoclonal antibodies were developed against a typical potato isolate of TBRV from Scotland (SASA isolate 113; R. Burns, personal communication). For all potato reagents, we recommend our extraction buffer «General» (Art. No. 110120) for testing leaf samples at a ratio of 1:20 (w/v). For testing sprouted tuber samples (sprouts of potato), a special extraction buffer «Bulbs & Tubers» (Art. No. 110122), containing egg albumin (ovalbumin), is used at a ratio of 1:10 to 1:20 (w/v; 2). For testing grapevine, a special extraction buffer «Grapevine» (Art. No. 110123) is used at a ratio of 1:10 (w/v).

The product was developed in cooperation with the Scottish Agricultural Science Agency (SASA), Edinburgh, UK; and the CFIA, Sidney Laboratory, Centre for Plant Health, Sidney BC, Canada; and Agriculture and Agri-Food, Canada.

Information on the antibodies

Coating IgG: monoclonal/polyclonal; conjugate: monoclonal/polyclonal

References

- (1) Clark, M.F., and Adams, A.N. 1977. J. gen. Virol. 34:475-483.
- (2) Gugerli, P. 1986. In H.U. Bergmeyer: Methods of Enz. Analysis. Vol. XI, pp. 430-446.
- (3) Murant, A.F.. 1970. Descriptions of plant viruses. No. 38. CMI/AAB. 4 pp.

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.