

Product Information: DAS-ELISA

Grapevine fleck virus (GFkV)

Synonym: Maculavirus vitis

GFkV (1) is a graft-transmissible virus that causes symptoms of disease in *V. rupestris*. Other *Vitis* species can be infected but remain asymptomatic. In infected *V. rupestris*, symptoms include localized clearings (flecks) in the veinlets of young leaves. In older leaves, the symptoms diffuse into a mosaic pattern and the leaves wrinkle and curl upward. Symptoms persist during mild weather and disappear with the onset of hot temperatures.

Specificity and sampling instruction

The antibodies were made against an isolate of *Rupestris* «St. Georges» grapevine (4) and specifically detect GFkV in DAS-ELISA (2). Similar to the grapevine leafroll associated closteroviruses, mature leaves and bark (phloem) scrapings are good tissue sources for testing. For testing grapevine, a special extraction buffer «Grapevine» (Art. No. 110123) (3, modified) is used at a ratio of 1:10 (w/v); for other plants, the extraction buffer «General» (Art. No. 110120) is used at a ratio of 1:20 (w/v).

The product was developed in cooperation with Agroscope, the Swiss centre of excellence for research in the agriculture and food sector.

Information on the antibodies

Coating IgG: polyclonal; conjugate: monoclonal

References

- (1) Boscia, D., Martelli, G.P., Savino, V., and Castellano, M.A. 1991. *Vitis* 30:97-105.
- (2) Clark, M.F., and Adams, A. N. 1977. *J. gen. Virol.* 34:475-483.
- (3) Gugerli, P. 1986. In H.U. Bergmeyer: *Methods of Enz. Analysis*. Vol. XI. pp. 474-481.
- (4) Ramel, M.E., Serrant, P., Küllig, P. and Gugerli, P. 1993. Extended abstracts 11th Meeting ICSVG, Montreux, Switzerland, 6-9 September 1993 (*Swiss Fed. agric. res. stat. Changins*), 161-162.

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.

1/1

Version: 4 - 09.05.2025

Adaptations from last version: added revised taxonomy of ICTV and assays of individual ELISA reagents.