

Product Information: DAS-ELISA

Potato leafroll virus (PLRV)

Synonym: Polerovirus PLRV

PLRV (3) occurs in most places where potatoes are grown and causes an economically very important disease. Symptoms of primary infection consist typically of pale yellowish leaves, and in some cultivars reddening of the tip leaves, which may become rolled and assume an erect habit. Secondary symptoms, in plants grown from infected tubers, are stunting of the shoots and upward rolling of leaflets. If primary infection takes place late in the season, no primary symptoms occur. However, progeny tubers may be infected.

Specificity and sampling instruction

These reagents were made against a potato isolate of PLRV (1) and react specifically with PLRV isolates in DAS-ELISA. 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).

This product has been 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) Gugerli, P. 1979. Phytopath. Z. 96:97-107.
- (2) Gugerli, P. 1986. In H.U. Bergmeyer: Methods of Enz. Analysis. Vol. XI. pp. 430-446.
- (3) Harrison, B.D. 1979. Descriptions of plant viruses. No. 291. CMI/AAB. 6 pp.

Ordering Information

BIOREBA offers the following formats:

Individual ELISA reagents for 100, 500, 1000 or 5000 assays: IgG and/or conjugate for the working volume of 200 µl/test/well.

Reagent sets for 480, 960 or 5000 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, 960 or 5000 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.