

Product Information: DAS-ELISA

Potato virus X (PVX)

Synonym: Potexvirus ecspotati

PVX (1) is a virus infecting species of the *Solanaceae* and 15 other plant families. It is readily sap-transmissible and is transmitted in nature mainly by mechanical contact. It occurs world-wide in potato-growing areas. In potato the virus causes a mild mosaic or is latent; yield losses are 10 to 20%. In tobacco it causes mottling or necrotic spotting, in tomato it causes mosaic and slight stunting. In all three hosts the severity of symptoms greatly increases in mixed infections with other viruses, e.g. potato virus Y.

Specificity and sampling instruction

These reagents were made against a potato isolate of PVX multiplied at Agroscope, the Swiss centre of excellence for research in the agriculture and food sector and react with a broad spectrum of PVX isolates (i.e., from Europe and South America) 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: polyclonal

References

- (1) Bercks, R. 1970. Descriptions of plant viruses. No. 4. CMI/AAB. 4 pp.
- (2) Gugerli, P. 1986. In H.U. Bergmeyer: Methods of Enz. Analysis. Vol. XI. pp. 430-446.

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 micro-titer 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.

1/1

Version: 5 - 09.05.2025

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