

Product Information: DAS-ELISA

Andean potato latent virus (APLV)

*APLV was split into APLV and Andean potato mild mosaic virus (APMMV) (4).

APLV (3), a tymovirus, occurs in the Andean highlands of South America. It generally causes mottle or mosaic on potatoes. The host range includes *Solanaceae*, *Chenopodiaceae*, *Curcubitaceae* and *Amaranthaceae*. The virus is readily transmitted within the field by contact, but also by the potato flea beetle (*Epitrix* sp.) as well as by true seed.

Specificity and sampling instruction

The reagents consist of polyclonal antibodies (IgG from rabbit for coating and AP-conjugated IgG). They were made against an isolate of Andean potato latent virus (APLV), strain Hu, from Peru (re-classified as a new virus species under the name APMMV; 4), for application in DAS-ELISA (1,2,3). The quality of the reagents has been validated at the CIP in Peru under practical field conditions (L. Bertschinger, 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).

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) 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) Koenig, R., and Lesemann, D.-E. 1981. In E. Kurstak: Handbook of Plant Virus Infections and Comparative Diagnosis, pp. 33-60.
- (4) Kreuze, J. 2013. Virus Research 173(2), 431-435.

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: Adaption to the current virus strain classification and nomenclature