

## Product Information: DAS-ELISA

# Alfalfa mosaic virus (AMV)

## Synonym: Alfamovirus AMV

AMV (3) is readily sap-transmissible, is seed-transmissible in some hosts and is transmitted in the non-persistent manner by aphids to a very wide range of host plants. The virus is common in most countries. It causes various mosaics, mottles and malformations in lucerne but is often symptomless in this host. The virus causes calico mosaic and tuber necrosis in potato, various symptoms in tobacco and garden lupin, mosaic in *Malva parviflora* and *Viburnum opulus*, yellow fleck in *Caryopteris incana*, white mottle in *Philadelphus* sp. and is one of the causes of mosaic in red and white clover, celery, celeriac and lettuce, of yellow mosaic in bean, cowpea, mung bean and chilli pepper, of necrosis and stunting in pea, of severe necrosis in tomato, and of wilting in chickpea.

## Specificity and sampling instruction

The polyclonal antibodies used for coating in the DAS-ELISA format (1) were made against a DSMZ isolate from G. Belli, Italy (St. Winter, *personal communication*). The «conjugate» consists of polyclonal antibodies prepared against an isolate from alfalfa collected in Saskatoon, Canada (2). Best tissue source for testing alfalfa is leaf tissue collected anytime during the growing season (2). Samples are homogenised 1:20 (w/v) in extraction buffer «General» (Art. No. 110120).

The product is based on antibodies developed by the Leibniz Institute DSMZ GmbH, Braunschweig, Germany, and the USDA-ARS Horticultural Crops Research Laboratory, Corvallis, OR, USA.

## 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) Gossen, B.D., and Martin, R.R. 1993. Can. J. Plant Pathol. 15:314.
- (3) Jaspars, E.M.J., and Bos, L. 1980. Descriptions of plant viruses. No. 229. CMI/AAB. 7pp.

## 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](http://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.