

## Product Information: DAS-ELISA

# Turnip yellow mosaic virus (TYMV)

Synonym: Tymovirus brassicae

TYMV (4) (Synonym: Cardamine yellow mosaic virus) only infects crucifers. Main affected crops are different cruciferous plants such as turnips, cabbages, mustards, rapes etc. In cauliflower, symptoms begin as vein clearing but later and on older leaves, permanent yellow patches develop. Symptoms on Chinese cabbage develop as bright yellow and dark green mosaic patterns. During cool weather, infected plants remain stunted. Symptoms are mild in other "brassicas". The virus is transmitted by chewing insects such as beetles, grasshoppers and earwigs.

## Specificity and sampling instruction

The reagents were made against a Czech TYMV isolate of Chinese cabbage. They react specifically with TYMV in DAS-ELISA (1). All isolates of the different "strain groups" are detected in DAS-ELISA, even though serological variability has been demonstrated by gel diffusion tests (3,4, and J. Spak, personal communication). Samples are homogenized 1:20 (w:v) in extraction buffer «General» (Art. No. 110120).

The product was developed in cooperation with the Institute of Plant Molecular Biology, Ceske Budejovice, Czech Republic.

## 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) Matthews, R.E.F. 1980. Descriptions of plant viruses. No.230. CMI/AAB. 6pp.
- (3) Polak, J., and Spak, J. 1987. Arch. Phytopathol. Pflanzenschutz 23 (4):269-274.
- (4) Spak, J., and Polak, J. 1988. Ochr. Rostl., 24 (4):251-258.

## 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.

1/1

Version: 5 - 15.05.2025

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