

## Product Information: DAS-ELISA

# Verticillium species (Verticillium)

Verticillium spp. (2) are common and are most closely related to Acremonium, and Tritirachium. Verticillium is a major plant pathogen. Verticillium is widespread in decaying vegetation and in the soil. Verticillium sp. cause plant losses and yield decreases in ornamentals and many strawberry fields.

### Specificity and sampling instruction

The reagents were made against isolate B2 of Verticillium dahliae (2). They are suitable to detect isolates of V. dahliae, V. albo-atrum and V. tricorpus in ornamentals (i.e., rose, chrysanthemum, pelargonium), vegetables (i.e., tomato, celery), potato and fruit trees (i.e., apple, maple) in DAS-ELISA (1). Other species within the genus Verticillium did generally not cross-react. As far as the application in roses and chrysanthemums (the most studied cases) concern, no cross-reactions occurred with six other fungi isolated. Actually, no cross-reactions were observed with isolates of Fusarium spp., Alternaria spp., Phomopsis spp., and most isolates of Penicillium spp. and Botrytis cinerea.

The distribution of the pathogen in plants can be irregular; therefore, several samples of a plant must be analyzed. In roses and chrysanthemums, reactions often are strongest in the lower parts of the stems, that preferentially are crushed with a hammer and homogenized in extraction buffer «General» (Art. No. 110120) at a ratio of 1:20 (w/v; 2).

The product was developed in cooperation with the Agricultural University Wageningen, The Netherlands.

### Information on the antibodies

Coating IgG: monoclonal; conjugate: monoclonal

### References

(1) Clark, M.F., and Adams, A. N. 1977. J. gen. Virol. 34:475-483.

(2) Van de Koppel, M.M., and Schots, A. 1995. Phytopathology 85:608-612.

### 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: 4 - 29.07.2025

Adaptations from last version: changed assays of individual ELISA reagents.