

Product Information: DAS-ELISA *Ralstonia solanacearum* (Rs)

Rs (formerly named *Pseudomonas solanacearum*) causes serious wilt diseases (also called «Southern bacterial wilt») in many crops; e.g. in potato (brown rot) and in ornamental plants such as pelargoniums (1,2). In pelargonium, the wilt disease caused by Rs is similar in symptom expression to the one caused by *Xanthomonas campestris* pv. *pelargonii* (Xcp). ELISA is a suitable tool for proper diagnosis.

Specificity and sampling instruction

The Rs reagents were made against the Rs isolate RAC 3854 from potato (Race 3: originally NCPPB 3854 from the UK; P. Gugerli and O. Cazelles, *personal communication*). Isolates of Rs can be detected to a concentration of 10^4 - 10^5 cfu per ml (diluting bacteria from pure culture in extraction buffer). This detection limit is nearly reached when bacteria are diluted in plant sap. For testing potato or pelargoniums, test samples are ideally taken from the lower portion of the main stem or at the base of the first lateral shoot. The plant material is homogenized 1:10-1:20 (w/v) in extraction buffer «General» (Art. No. 110120).

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) Müller, P. and Brielmaier-Liebetanz. 2001. Gärtnerbörse 09, pp. 18-20.
- (2) Williamson, L., Nakaho, K., Allen, C., and Hudelson, B. 2001. Phytopathology 91, No. 6 (Supplement) S95.

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.

1/1
Version: 4 - 25.04.2017
Adaptations from last version: new ordering information; minor modifications.