

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

*Ralstonia solanacearum* causes severe wilt diseases and leaf necrosis in ornamentals such as pelargonium and roses and brown rot in potato (1, 2). Sample sources are symptomatic tissue of either leaves, petioles, or stem of ornamentals, sprouts, stem or leaves of potato, or symptomatic tissue of other solanaceous plants.

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 DAS-ELISA reagents were made against *Ralstonia solanacearum* Race 3 (Prime Diagnostics-WUR). The reagents detect *Ralstonia* from diverse host plants such as potato, pelargonium, banana, physalis etc. All *Ralstonia* isolates (Race: 1, 2, 3; Biovar 1, 2, 3, 4) tested to date were detected (Jose van Beckhoven (Prime Diagnostics-WUR) personal communication). Isolates of *Ralstonia* can be detected to a concentration of  $10^4$  -  $10^5$  cfu per ml (diluting bacteria from pure culture in extraction buffer). 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 is based on antibodies developed by Prime Diagnostics-WUR.

### 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 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: changed assays of individual ELISA reagents.