

Product Information: AgriStrip

Ralstonia solanacearum (Rs)

Intended use

This test is intended to detect Rs in suspicious plant samples. Rs causes severe wilt diseases and leaf necrosis in ornamentals such as pelargonium and brown rot in potato. Sample sources are symptomatic tissue of either leaves, petioles, or stem of ornamentals, stem or leaves of potato, or symptomatic tissue of other solanaceous plants.

Specificity and sampling instruction

The reagents used for this AgriStrip 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). The detection limit is approx. 10⁵ cfu/ml. Best results with leaf and petiol samples were obtained with a 1:60 to 1:120 (w/v) dilution of an extract of infected tissue, in pelargonium preferably taken at the lower part of the main stem, or at the base of the first lateral shoot.

Instructions for use

- 1) Place approx. 0.1 g of petiole/stem (1 cm) or of leaf (≈ 2.5 cm²) into an extraction bag (Fig. 1*) and add 3 ml of **AgriStrip extraction buffer B** with a disposable pipette (1:30 w/v).
- 2) Homogenize the tissue with a handheld homogenizer with a few movements for about 3-4 seconds (Fig. 2*). Stems and petioles are best crushed with a blunt object to get the bacterial cells released into the buffer.
- 3) **Transfer 1 drop of extract into a cuvette (Fig. 3*) and dilute with 3 drops of extraction buffer.**
- 4) Insert the end of the strip marked «sample» into the extract (Fig. 4*) and observe formation of colored bands.

* For figures, please refer to «AgriStrip General Information».

Leaf sample

2.5 cm²

Petiole/stem sample

1 cm

Ordering Information

Product	Art. No.	Assays
Rs AgriStrip Complete kit 25	170581	25
Rs AgriStrip Set 25	170582	25
Rs AgriStrip Set 100	170583	100
Optional Products	Art. No.	Size
Cuvette rack, holds 12 cuvettes	2166	1
Cuvettes, disposable	2534	100
Pipettes, disposable	2292	500
Extraction bags Universal	430100	100
Homogenizer hand model	400010	1

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Adaptations from last version: This product is based on antibodies developed by Prime Diagnostics-WUR.