

# 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 Rs isolate RAC 3854 from potato (originally NCPPB 3854 from the UK). This test specifically reacts with Rs with a detection limit of approx.  $10^5$  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 ( $\approx 2.5 \text{ cm}^2$ ) 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 cm<sup>2</sup>

Petiole/stem sample

1 cm<sup>2</sup>

### Ordering Information

Product	Art. No.	Assays
Rs <b>AgriStrip</b> Complete kit	170581	25
Rs <b>AgriStrip</b> Single strips*	170582	25
Rs <b>AgriStrip</b> Single strips*	170583	100
* including <b>AgriStrip</b> Extraction buffer B, ready-to-use		
Optional Products	Art. No.	Size
Cuvette rack, holds 12 cuvettes	2166	1
Cuvettes, disposable	2534	100
Pipettes, disposable	2292	500
Extraction bags «Universal»	430100a	100
Homogenizer hand model	400010	1

1/1

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