

Product Information: AgriStrip *Xanthomonas fragariae* (Xfr)

Intended use

This test is intended to detect Xfr in suspicious samples of growing strawberry plants. The disease is widespread in nurseries in many countries and has been responsible for important production losses.

Specificity and sampling instruction

The reagent was made against the isolate Xfr 184.2 (E. Bosshard, unpublished). All isolates of Xfr tested so far can be detected. There are cross-reactions with some related bacteria of the *Xanthomonas*, especially with *X. campestris* pv. *pelargonii* (Xcp), and to a lower extent (only at concentrations of 10⁸ and higher) with *X. campestris* pv. *campestris*. No cross-reaction was observed with *X. arboricola* pv. *fragariae* causing similar symptoms as Xfr or with non related bacteria such as *Pseudomonas syringae*, *Erwinia carotovora* subsp. *carotovora* and some unidentified saprophytic bacteria.

Stem and petioles at the lower part of the plant or symptomatic leaves are the most reliable source for sampling. The detection limit is around 10⁴ cfu/ml in extract of healthy strawberry. Strongest coloration of testbands was obtained with a 1:200 (w/v) dilution of an extract of infected strawberry leaf, petiole, or stem.

Instructions for use

- 1) Place approx. 0.05 g of petiole/stem (1 cm) or of leaf (≈ 2.5 cm²) into an extraction bag (Fig. 1*) and add 2.5 ml of **AgriStrip extraction buffer B** with a disposable pipette (1:50 w/v).
- 2) Homogenize the tissue with a handheld homogenizer with a few movements for not more than 2 seconds (Fig. 2*).
- 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 cm²

Ordering Information

Product	Art. No.	Assays
Xfr AgriStrip Complete kit	150381	25
Xfr AgriStrip Single strips*	150382	25
Xfr AgriStrip Single strips*	150383	100
* including AgriStrip 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

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