

# Product Information: AgriStrip

## *Acidovorax avenae subsp. citrulli* (Aac)

### Intended use

This test is intended to confirm Aac in suspicious leaf and fruit samples. The pathogen, causing BFB in watermelon and other cucurbit crops, is transmitted with seeds and spreads rapidly during growing season under favorable conditions. The symptoms of BFB are small, water-soaked lesions on cotyledons, light brown to reddish brown lesions on leaves or stem, and dark green lesions on fruits of watermelon.

### Specificity and sampling instruction

The antibodies used for this AgriStrip assay were made against a blend of different Aac isolates originating from USA, Brazil, and Thailand (R. Walcott, pers. communication). There are cross-reactions with other subsp. of *Acidovorax avenae*, such as *A. avenae subsp. cattleyae* (Aacat) or *A. avenae subsp. avenae* (Aaa). Detection limit is between  $10^5$  to  $10^6$  cfu/ml. Strongest coloration of testbands was obtained with a 1:20 (w/v) dilution of an extract of infected watermelon leaf.

### Instructions for use

- 1) Place approx. 0.15 g of leaf ( $\approx 8 \text{ cm}^2$ ) or approx. 0.6 g of fruit tissue (cut a small cone comprising a lesion) into an extraction bag (Fig. 1\*) and add 3 ml of **AgriStrip extraction buffer A** with a disposable pipette (1:20 w/v).
- 2) Homogenize the tissue with a handheld homogenizer thoroughly for at least 4-5 seconds (Fig. 2\*).
- 3) **Transfer 4 drops (approx. 150  $\mu\text{l}$ ) of extract into a cuvette** (Fig. 3\*).
- 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».

Maximal  
sample size

8 cm<sup>2</sup>

### Ordering Information

Product	Art. No.	Assays
Aac <b>AgriStrip</b> Complete kit 25	161981	25
Aac <b>AgriStrip</b> Set 25	161982	25
Aac <b>AgriStrip</b> Set 100	161983	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: new ordering information; minor modifications.