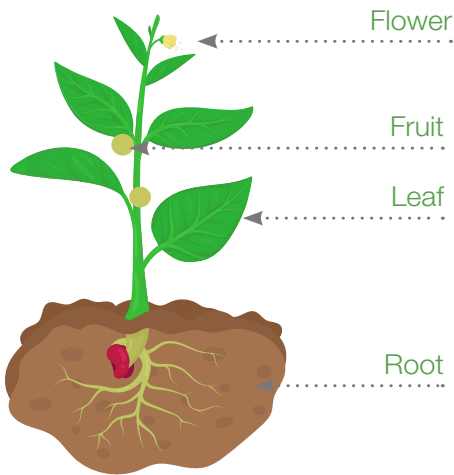


Plant Material

INSTRUCTIONS FOR USE

- 1 Unscrew and **remove the bottle cap and integrated nozzle as shown below**. Use the bottle cap as if a cookie cutter and cut up to 10 plant material discs (up to 0.4g). If the plant is exhibiting disease, select plant material which falls across the disease and healthy zone. Avoid dried dead necrotic plant material. For roots, clean and make free of soil. For root, fruit and stem material break up and section into small pieces before adding to the bottle. For wine grapes follow the Botrytis wine grape Must instructions for use.



- For asymptomatic plant material (we have tested with rose petals) an overnight incubation of plant discs/material in 10mM sucrose can stimulate Botrytis germination. The test recognizes Botrytis mycelium rather than the spore.
- Too much plant and particulate material can cause the test membrane to become blocked and void the test. Formation of a control line (reading your test) will indicate if the test has run correctly.
- Contact Mologic for more information: agrialert@mologic.co.uk

- 2 Place the plant discs into the bottle and add three carbon steel balls. **Screw the bottle cap and integrated nozzle back on.**
For rose petals we have found 15 seconds is optimal to break the tissue whereas for fruit and root material you may require longer i.e. 30 seconds vigorous shaking.

- 3 1. Remove the nozzle cap. 2. Invert the bottle over the sample cup and gently squeeze the bottle to dispense 5 drops of the solution.

RUNNING YOUR TEST

- 1 Before running a test the plant material and buffer should be at room temperature.
- 2 Open the Botrytis strip desiccant pot. Remove the number of test strips required. Handle the test strips carefully and only by the red handle. On test strip removal, immediately close the lid fully and ensure an air tight seal is attained. During this operation keep the test strip clean and dry.
- 3 Whilst holding the red handle of the Botrytis test strip place the other end into the sample cup. The liquid in the sample cup should not exceed the top of the blue band on the sample strip. Leave the Botrytis test strip to run upright in the sample for exactly 10 minutes.

- 4 At 10 minutes a control line should be clearly visible. Depending on your sample a test line may be visible. Remove the test strip from the sample cup at exactly 10 minutes. Read immediately using either a score card, a cube reader or with the companion computer vision App. Ensure you read your test at 10 minutes and if again, no later than 20 minutes of running your test. The test can be used to provide a semi-quantitative measurement of Botrytis. The test line will change over time. Do not read after 20 minutes.

READING YOUR TEST

- 1 Read your test visually using the test line score card.
LATERAL FLOW TEST LINE SCORE CARD
BOTRYTIS NOT DETECTED IN SAMPLE (TEST LINE NOT OBSERVED)
0 []
1 []
2 []
3 []
4 []
5 []
6 []
↑ INCREASED BOTRYTIS

- 2 **If you have a cube reader you will require a Mologic Botrytis RFID card and a cube Botrytis strip test holder.**

- 3 Before you use the web app request an ID & Password from Agrialert@mologic.co.uk. You may want to download the instructions before running the test.
 LOG ON TO THE WEB APP READER
 OR VISIT app.agrialert.co.uk

TROUBLESHOOTING

During vigorous shaking, the plant material will fragment to release Botrytis (if present) into solution. At the same time, coloured plant pigments may also be released, which can cause the membrane to have an overall background colour. However, the red test line (if Botrytis present) and the control line should be clearly visible. If this occurs, read the test as normal. However, if an excess of green plant sap / chlorophyll is observed to block the membrane or form a green line, the test is void and will need to be carried out afresh with less sample and / or less vigorous bead beating.

The test does not discriminate viable and non-viable botrytis infection state. So, should not be used to assess the efficacy of a control treatment. For example, a control treatment may be applied and kill botrytis. However the botrytis antigen will likely remain and be detected by the test. The test is a preliminary screen and it is recommended that results be confirmed by an alternate method. The test result will depend on the sample assessed, the sample size and the sampling process. A negative result does not preclude the presence of botrytis. As the test may well be used for field & protected crop testing activities protect the test during storage by avoiding hot or cold temperature extremes. Do not leave in direct sunlight or in a vehicle. Store at room temperature.