

Grape Must

INSTRUCTIONS FOR USE

1 Prepare Grape Must and using a filter, sieve out large grape material.

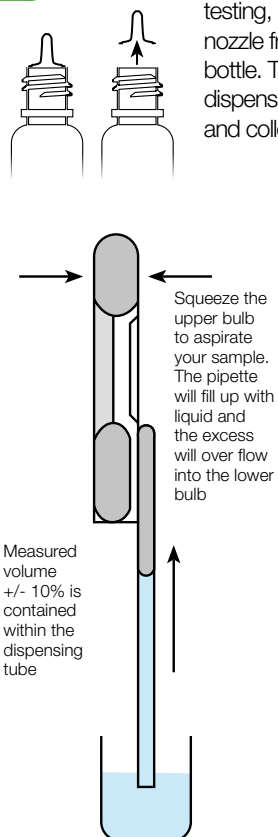
2 If required, a Botrytis Must / grape juice sample standard (0, 5, 10, 15, 20 and 25% Botrytis infection) method used by Dewey et al., 2000 is recommended: <https://www.ajevonline.org/content/51/3/276>



An example is as follows: prepare a 25% standard by taking 75 visibly healthy grapes mixed and crushed with 25 half turgid Botrytis naturally infected grapes. Using a sieve filter out large grape material

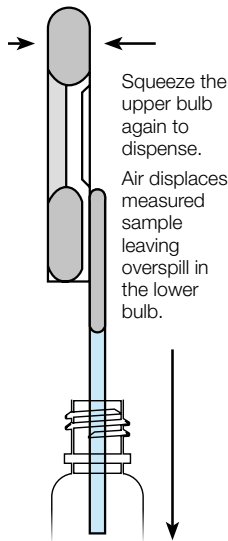
Do not use artificially infected grapes

3 Once you have your Grape Must ready for testing, remove cap and nozzle from 4ml test buffer bottle. Take a plastic 40ul dispensing bulb pipette and collect grape Must

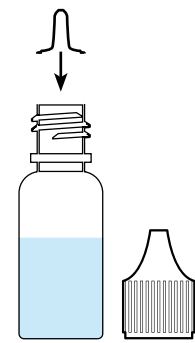


Measured volume +/- 10% is contained within the dispensing tube

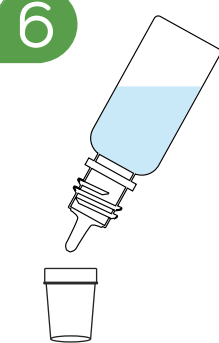
4 Place bulb pipette over the buffer bottle and gently squeeze the upper bulb to dispense 40ul of grape Must into the test buffer bottle. This provides you with a 1:100 Must dilution i.e. 40ul grape Must mixed with 4ml buffer. If you consider this too dilute for your grape type try a 1:50 Must dilution instead. To do this, repeat the process to provide 80ul grape Must mixed with 4ml buffer.



5 Insert nozzle to the neck of the dropper bottle. Then screw on the bottle cap. Once secure, gently invert the bottle several times to mix the Must and the sample buffer. Avoid foaming.



6 Remove cap. Invert the bottle over the sample cup and gently squeeze the bottle to dispense 5 drops of the grape Must solution.



RUNNING YOUR TEST

1 Open the pouch of Botrytis test strips at the resealable end. Ensure the pouch is immediately resealed following the removal of a test strip(s)

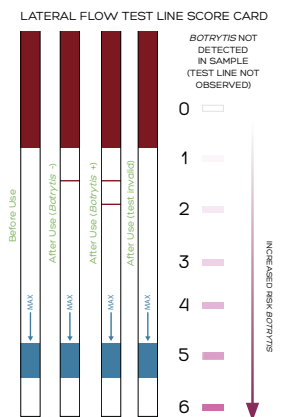
2 Before running a test the grape Must and buffer should be at room temperature

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

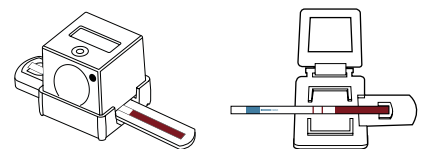
4 At 10 minutes a control line should be clearly visible. Depending on your sample a test line may be visible. Remove the test strip from the sample cup at exactly 10 minutes. Read immediately using either a score card, a cube reader or with the companion computer vision App

READING YOUR TEST

1 Read your test visually using the test line score card



2 If you have a cube reader and Mologic Botrytis Alert test holder download instructions from <https://www.botrytisalert.co.uk/>



3 Before you use the WEB APP you will require ID & password. Download App instructions and read before running the test



LOG ON TO THE WEB APP READER



OR VISIT app.agrialert.co.uk

The test does not discriminate viable and non-viable botrytis infection state. So, should not be used to assess the efficacy of control treatment. For example, a control treatment may be applied and kill the 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.