

## Grape Must - Instructions For Use

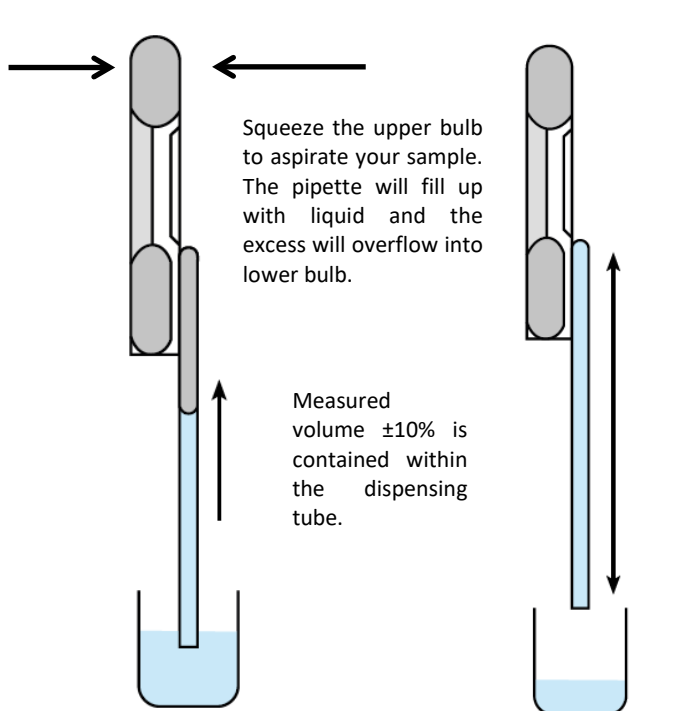
1. Prepare grape must and using a filter, sieve out large material.
2. If required, a Botrytis must / grape juice sample standard (0, 5, 10, 15, 20 and 25% Botrytis infection) method used by Dewey et al., 2000 is recommended: <https://www.ajevonline.org/content/51/3/276>



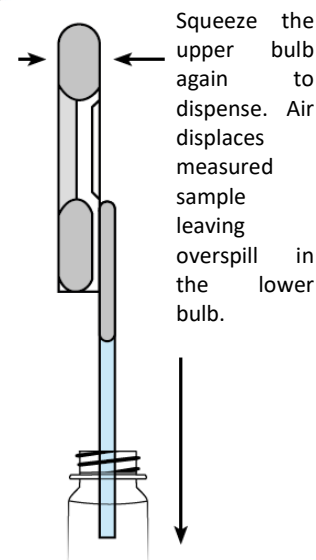
### DO NOT USE ARTIFICIALLY INFECTED GRAPES

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.

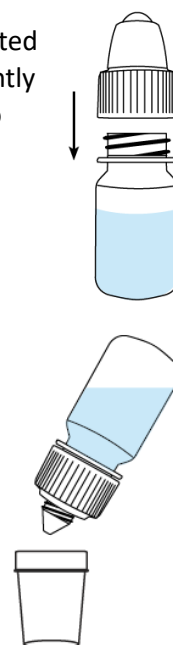
3. Once you have your grape must ready for testing, remove cap and nozzle from 4 mL test buffer bottle. Take a plastic 40  $\mu$ L dispensing bulb pipette and collect grape must:



4. Place bulb pipette over the buffer bottle and gently squeeze the upper bulb to dispense 40  $\mu$ L of grape Must into the test buffer bottle. This provides you with a 1:100 Must dilution i.e. 40  $\mu$ L grape Must mixed with 4 mL 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 80  $\mu$ L grape Must mixed with 4 mL buffer.



5. Screw the bottle cap and integrated nozzle back on. Once secure, gently invert the bottle several times to mix the Must and the sample buffer. Avoid foaming.
6. Remove the nozzle cap. Invert the bottle over the sample cup and gently squeeze the bottle to dispense 5 drops of the grape must solution.

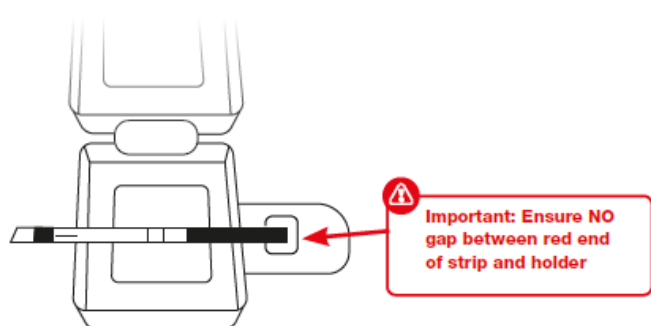


## Technical Support

Please contact technical support via email:  
[technicalsupport@globalaccessdx.com](mailto:technicalsupport@globalaccessdx.com)

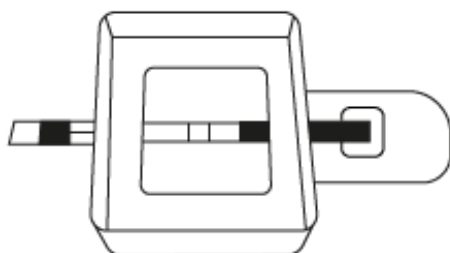
## RUNNING YOUR TEST Method 1: Manual read

1. Before running a test, the grape must and buffer should be at room temperature.
2. Open the pot of Botrytis test strips. Ensure the pot is immediately closed following the removal of a test strip(s).
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. Assemble test strip and strip holder as shown.  
The red end of the strip must be positioned correctly in the holder to generate the correct test and control line readings.

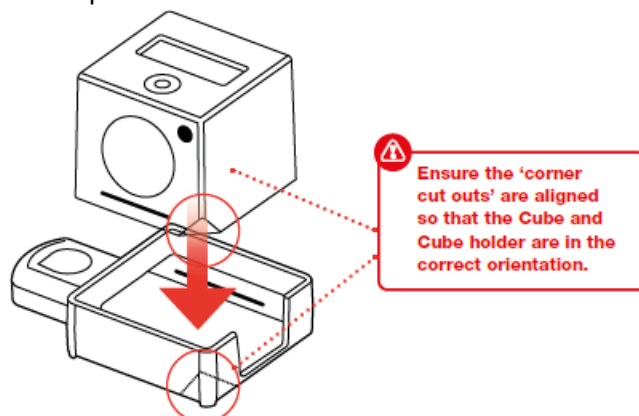


## READING YOUR TEST Method 1: Manual read

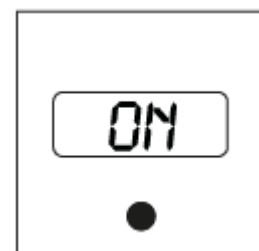
1. Once your strip is in the holder, close the holder over the top of the strip. Ensure that the strip remains correctly positioned in the holder.



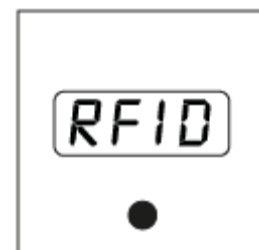
2. Place the cube reader device on top of the strip holder.



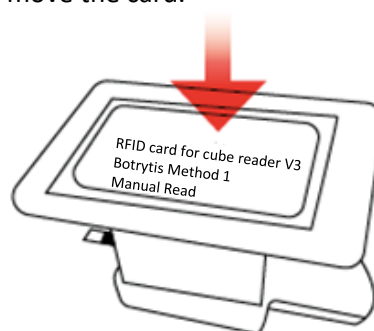
3. Press button to turn the test reader on. The display will read 'WAIT' then 'ON'. The cube can be powered using the USB cable provided or alternatively using batteries. Always carry spare batteries if you are not powering the cube using the cable.



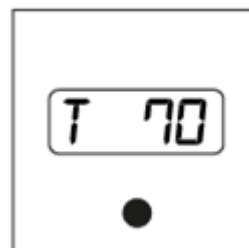
4. Press the button again. The display will read 'RFID'.



5. Apply the **RFID card (V3) Method 1: Manual read** to the top of the cube until it beeps. Remove the card.



6. A beep sounds when the test is done, and the result scrolls on the screen.



The test (T) and control line reading (C) will scroll across the screen.

The test is invalid if a control line is not present.

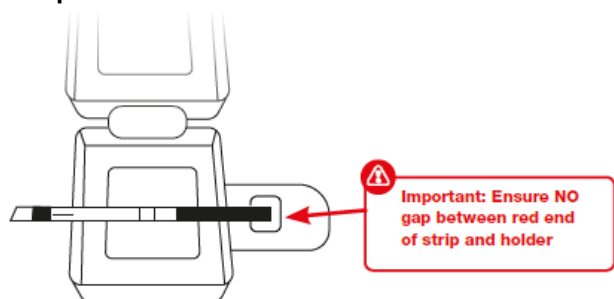
T = Test line score

C = Control line score

## RUNNING YOUR TEST

### Method 2: Automatic read

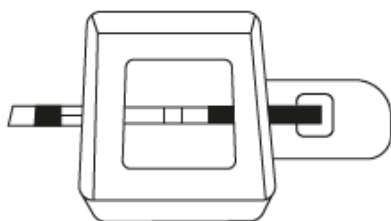
1. Before running a test, the grape must and buffer should be at room temperature.
2. Open the pot of Botrytis test strips. Ensure the pot is immediately closed following the removal of a test strip(s).
3. Whilst holding the red handle of the Botrytis test strip place the other end into the sample cup. The liquid in the sample cup should not exceed the top of the blue band on the sample strip.  
Leave the Botrytis test strip in the sample cup for between 10 and 20 seconds, no later than 20 seconds in the Grape Must, remove the Botrytis strip from the sample cup and immediately transfer to the strip holder.
4. Assemble test strip and strip holder as shown. The red end of the strip must be positioned correctly in the holder to generate the correct test and control line readings. **Complete read steps 1-5 as soon as possible.**



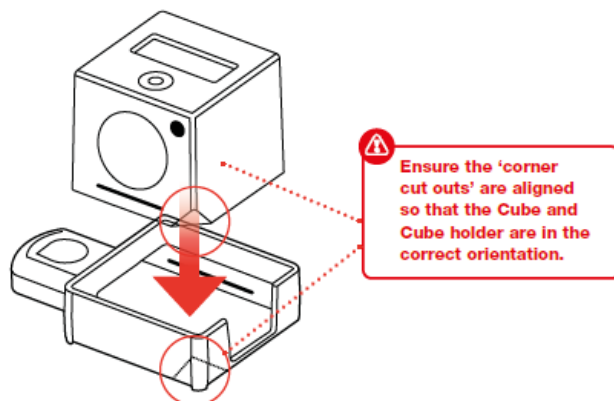
## READING YOUR TEST

### Method 2: Automatic read

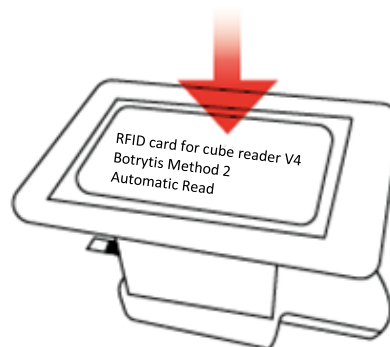
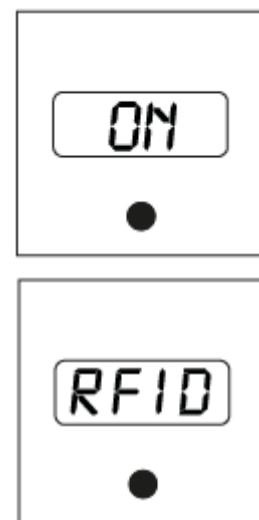
1. Once your strip is in the holder, close the holder over the top of the strip. Ensure that the strip remains correctly positioned in the holder.



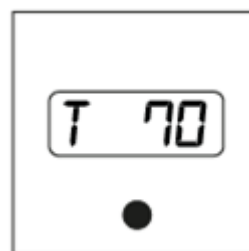
2. Place the cube reader device on top of the strip holder.



3. Press button to turn the test reader on. The display will read 'WAIT' then 'ON'. The cube can be powered using the USB cable provided or alternatively using batteries. Always carry spare batteries if you are not powering the cube using the cable.
4. Press the button again. The display will read 'RFID'.
5. Apply the **RFID card (V4) Method 2: Automatic read** to the top of the cube until it beeps to initiate the 10-minute timer. Remove the card.



6. A beep sounds when the test is done, and the result scrolls on the screen.



The test (T) and control line reading (C) will scroll across the screen.  
The test is invalid if a control line is not present.

T = Test line score  
C = Control line score