	Testing Department	SOP #	SOP-TD-002
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SOP Owner	Seth Joubert	Approval	Granted

i-Test Use

Standard Operating Procedure (SOP)

1. Purpose

The purpose of the i-Test SOP is to give relevant and helpful information for running the i-Test as intended from start to finish.

2. Scope

The intended audience is for customers who have purchased the i-Test. As well as new lab employees.

3. Contact List


CEO	Nathan Johnson	303-###-####
Lab Manager	Seth Joubert	774-###-####

4. Responsibilities

The customer/lab employee is responsible for following this SOP and running the assay correctly. As well as keeping the mixture and components in their optimal conditions.

5. Procedure

- Store testing mixture at -20C or -4F if not used within 30 minutes at room temperature.
- Keep sampling tips in the provided bag for less of a chance for contamination.
 1. Open package from Verne containing i-Test components.
 2. Verify if all items are present.
 - a. Gloves
 - b. Protocol/Quick guide paper
 - c. Sampling tips (number of tips matching the unknowns)
 - d. Control pair(s) (single clear tube representing the negative and single color cap tube representing the positive)

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- e. Testing mix dispensed into a strip(s) of tubes
3. Put on gloves.
4. Prepare a clean work environment to ensure lower chances of contamination. Using a 10% bleach solution can help with disinfecting.
5. Tap testing mix and control pairs on a surface to make sure the solution is at the bottom of the tube.
6. Optional: Label tubes to correspond to specific leaves for result tracking.
7. Take out a sampling tip from the sample kit and make sure not to touch the pointy (tip) side of the sample tip to decrease contamination.
8. Next, sample a leaf by using the sample tip to poke and rub into the leaf ideally until a greenish tinge is on the end of the sample tip as this indicates chlorophyll/biomass is present on the tip.
9. Open the cap of the desired testing tube and place the sampling tip into the desired testing tube and agitate the mix with the sampling tip for about 10 seconds.
10. Once done, close the cap and repeat for other samples.
11. After sampling, place the testing tubes and one control pair into the incubator and select the 64C for 45 minutes protocol.
12. After 30 minutes, check the tubes and observe any color change. By this time the positive control should have turned yellow and the negative control stayed pink (if this is not the case contact us as the test could be defective). Note the color change of the testing tubes and place into a fridge for 20 seconds to get a crisp color change. If the testing tube(s) appear orange, run for an additional 15 minutes and use the fridge if needed for final results.