

	Testing Department	SOP #	SOP-TD-004
		Revision #	1
		Implementation Date	2024-01-08
		Last Reviewed/Update Date	2024-01-08
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		Approval	

WE-Test Sampling

Standard Operating Procedure (SOP)

1. Purpose

The purpose of the SOP-TD-004 is to give relevant and helpful information to the customer for sampling techniques for the WE-Test kit.

2. Scope

The intended audience is for customers who purchased the WE-Test kit.

3. Contact List

CEO	Nathan Johnson	303-817-7758
Lab Manager	Seth Joubert	774-317-0177

4. Responsibilities

The customer is responsible for sampling correctly and accurately without contamination by following this SOP.

5. Procedure

WE-Test Cannabis Plant Sampling Instructions

The most critical step in the testing process is how and where you take a sample from your plant or your plant's environment.

Considerations

1. Choosing the Right Plant Material and Plants
 - a. Identify the plants you will be testing. Recommendations on which plants to test:

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- i. Mother Plants
- ii. Clones
- iii. Plants Showing Symptoms

* If you need a testing plan, at Verne Bio we are happy to help!

- b. Identify the part(s) of the plant to test. Generally speaking, our recommendation is to provide us with multiple parts of the SAME plant as different organisms have different infection patterns:
 - i. Piece* of Root**
 - 1. MUST BE CLEAN OF ANY SOIL
 - ii. Piece* of petiole (new leaf) on the lowest branch
 - iii. A piece of any plant material that shows visibly abnormal*** symptoms

* A piece is no bigger than a pinky nail size of plant material

** Be careful when sampling roots as the root ball is one of the most critical sources of support for a plant and your sampling could damage the plant.

*** Abnormal can be defined as different color patterns, wrinkling leaves, shorter plants, decaying plant material

2. Gather Necessary Supplies

- a. We provide a barcoded sample lock cap tube & a box for tube placement
- b. We provide a return shipping label
- c. Disposable Gloves (Latex or Nitrile)
- d. Scissors or blades
- e. Marker
- f. Disinfectant (recommendation is 10% bleach solution)
- g. Place to take notes

3. Sampling Procedure

- a. Wear Gloves
 - i. Wear always, to avoid contamination.

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- b. Make Note of test tube ID & plant ID
 - i. Our QR codes are unique to you as a customer
 - ii. 2D capable scanners with a computer that has Excel can make for quick scanning
- c. Clean Scissors/Blade
 - i. 5 minute exposure to a 10% bleach solution
 - ii. Rinse scissors/blade with water
 - iii. Recommend having multiple scissors/blades to maximize sampling speed
- d. Collect the Sample
 - i. See section 1b.
- e. Place Sample in test tube & place in box holder
- f. Store the sample in a fridge
 - i. Well hydrated Samples can last for 1 week before significant degradation occurs
 - ii. Store in a freezer if needing to store for longer periods of time
- g. Repeat for the number of samples
- 4. Mail Samples to Lab
 - a. Place Box in a shipping box
 - b. Make sure there are no air pockets inside the box as the box will move around
 - c. Place the provided return label on the outside of box
 - d. Drop the shipping box with the shipping label at a UPS store or arrange for pickup by going to [ups.com](https://www.ups.com) or calling
- 5. Clean Up
 - a. Since you are dealing with potential plant pathogens, it is essential to clean all tools and surfaces thoroughly to prevent the spread of any disease

Important Tips

1. Do NOT sample with plants that are wet (i.e. right after watering or rain) • Excess moisture can cause significant degradation of sample and pathogen
2. Make Sure to test enough to cover the range of symptoms you are seeing

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3. The quicker the sample can get to the lab after collection the better. Delays might lead to decay of samples and decrease accuracy of results.