



**CDFA & USDA Permitted Lab  
Accredited by National Seed Health  
System (NSHS) For Seed Health Testing**

**Detection of Bacteria, Fungi,  
Phyto-plasma viral diseases of  
vegetables, fruit trees and seeds.**

**Using conventional and  
specialized molecular tools for  
disease diagnosis.**

**ELISA, PCR, Real-Time PCR and  
RT-PCR for accurate and faster  
detection.**

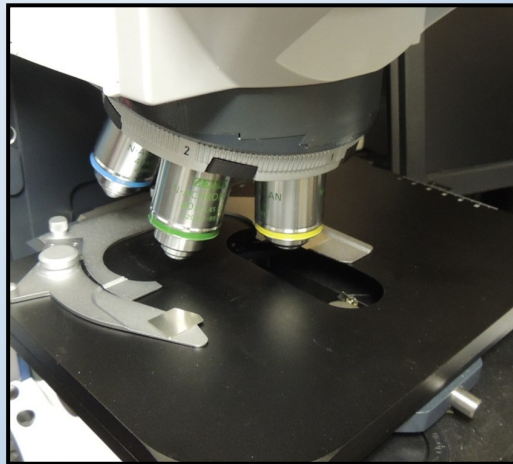
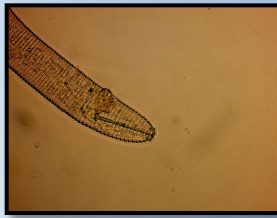
**Species-level identification  
using PCR and Sequencing.**

**Detection of Grapevine leafroll-  
associated viruses using ELISA and  
RT-PCR.**

**Identification of  
Nematodes.**

**Microbial Activity of soil using  
Average Color Development  
Analysis.**

**We specialize in  
complete nutritional programs to  
enhance maximum production.  
Ask us how.**



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**SUNBURST**  
Agri Biotech Solutions LLC



**SOIL & TISSUE  
SAMPLING  
INSTRUCTIONS**



## Guidelines For Submitting Plant Samples For Disease Diagnosis

- ◆ Sample should represent an overall plant population in the field.
- ◆ Dead plants or senescent tissues should not be sampled.
- ◆ Do not collect leaf / plant samples heavily covered with soil or dust.
- ◆ Do not collect samples from plants that are damaged by insects or mechanically injured.
- ◆ Sampling is not recommended when plants are under moisture or temperature stress.
- ◆ A single plant sample may not be enough; several plant samples showing a range of symptoms and present at various stages of disease development will be needed for accurate diagnosis.
- ◆ Stem / branch specimens should be at least 8-12 inches long and should include the diseased area and part of the healthy area.
- ◆ For plants showing wilting, yellowing, stunting or general decline, collect the entire plant including the root stem.
- ◆ Plants should be carefully dug from the ground (not pulled out), so that the root system will remain relatively intact.
- ◆ Shake away excess soil from the root system.
- ◆ Be sure that root samples are from the affected plants and not from adjacent weeds.

**Do Not Wash Soil From The Root System**

- ◆ Enclose the root system in a plastic bag. Rest of the plant sample should be placed in another plastic bag.
- ◆ For leaf / fruit diseases, submit leaves / fruits showing various stages of infection.
- ◆ For lawn and turf diseases, submit 3 to 4 inch diameter plug containing both diseased and healthy turf tissue.

**Do Not Add Additional Moisture**

## Sampling Check List

COLLECT SAMPLE

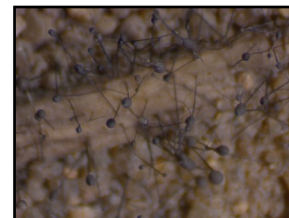
LABEL SAMPLE BAGS

FILL OUT SUBMITTAL SHEET

ENCLOSE PERMITS

ATTACH CDFA SHIPPING LABEL

OVERNIGHT THE SAMPLES



## Guidelines For Submitting Soil Samples For Disease Diagnosis

- ◆ Using a hand shovel, scrape away surface litter and remove the top 3 to 5 inches of soil.
- ◆ Avoid taking samples from areas such as lime piles, fertilizers spills / bands, livestock congregation areas, poorly drained areas, dead furrows and areas closer to road / pathways.
- ◆ Do not take too dry or too wet soil.
- ◆ Take soil closer to the rhizosphere (root) zone.
- ◆ If collecting soil from multiple sites as a composite, mix in clean plastic bucket and send around 500 g of soil.

Sample Submittal Sheet can be downloaded from our website. [www.sunburstabs.com](http://www.sunburstabs.com)

Be sure to include:

- 1) Name of plant / crop
- 2) Age of plant / crop
- 3) Description of the problem

For additional information regarding collecting and submitting plant / soil samples for disease diagnosis, please contact us.

