

Collecting & Sending Samples for Hop Disease Testing

UWEX Plant Pathology

Sample Preparation for Disease Diagnosis

Do you have hop shoots, leaves, or cones that you would like to have analyzed for disease?

1. Collect plant material showing a range of symptoms. Keep samples from different plants separate. Completely dead plants or tissues are not useful.
2. Make sure tissue is as dry as possible. Collect in dry conditions or let air dry in cool location.
3. Place into a ziplock plastic bag with a dry paper towel to absorb moisture.
4. Label each bag with a sample name, date collected, plant variety, and county.
5. Include a note describing what you want looked at/tested for (optional) & preferred way to contact you with results.
6. Keep in a cool, dry place until ready for shipping.
7. If you have photos of the disease/disorder in the hop yard, please send along by email or a print version in the package.

Additional advanced tests are available for Arabis mosaic virus, Cucumber mosaic virus, Apple mosaic virus, Carlavirus group, and downy mildew (asymptomatic tissue). Please let us know if you would like specific testing for these viruses or for asymptomatic downy mildew. Note that these tests may take slightly longer than a visual diagnosis.

If sending plantlets for advanced testing: send all above-ground tissue OR several (at least 5-6) quarter-sized or larger detached leaves.

If sending mature plant tissue for advanced testing: collect leaves showing symptoms.

Send overnight (preferably early in the week) to:

**Michelle Marks
Department of Plant Pathology
1630 Linden Drive
687 Russell Laboratory
Madison, WI 53706**

Questions about sample submission? Contact Michelle Marks at:
memarks2@wisc.edu