

Canola Diagnostics

Your Field. Your Results.



Free Testing for Manitoba Canola Grower Members

Field Sampling Instructions for Canola Disease Diagnostics

**Testing Provided by Manitoba Canola Growers
Association through Genebright BioSolutions**

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IMPORTANT NOTES:

- Clearly label each sample with:
 - **SAMPLE ID (Assigned by MCG at time of sample request. ex. MC-2026-BLV-123)**
 - Field ID (label given to field by farmer), First Name, Last Name and Phone Number
- Do not mix plant and soil in the same bag.
- Do not mix samples from multiple fields
- Use separate bags and clean tools for each field to avoid cross contamination. Sanitize tools between sampling sites using a 2% bleach solution.

Disclaimer: Due to the patchy nature of diseases across a field, false negatives are possible by missing infested patches when sampling, results are reflective of the sampled area only.

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Clubroot - Soil Sampling

When to Sample:

Soil sample in the fall after canola harvest or the following spring after canola is grown, spring sampling is recommended.

Where to Sample:

High risk areas such as field entrances, high traffic areas, low spots, natural water runs, low pH areas or any area of concern or where symptoms were observed. Select a representative location within the high risk area of the field.

How to Sample:

1. Within the high risk area walk in a “W” pattern, collecting **5 soil cores of the topsoil (0-6”) at each turning point and center of the “W” (20-25 total cores)**. Brush off the top layer of crop residue to expose bare soil before sampling.
2. Mix all collected soil in a **clean bucket** and take a single **composite subsample sample (~2 cups or 500 g of soil)** for the field. Dispose of remaining sample in the field.
3. Place the soil in a **sealed plastic bag**, label it with the **SAMPLE ID (Assigned by MCG at time of sample request. ex. MC-2026-BLV-123)**, Field ID, first and last name, and phone number.
4. Keep cool in the fridge and ship as soon as possible. If shipping is delayed, store samples in the fridge (do not freeze).

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Verticillium Stripe and/or Blackleg - Plant/Stubble Sampling

When to Sample:

At swathing or soon after straightcut combining.

Where to Sample:

Fields or areas within a field that are showing signs of symptoms of blackleg or verticillium (Striping on stems, premature ripening, stem cankers, lodging, stem lesions, or discoloration of cross-section).

How to Sample:

1. Within the area of concern walk a “W” pattern and pull **10–20 random stems** from the ground at the turning points and center of the “W”. Knock off excess dirt.
2. Clip stems just below the crown into the root with a sharp pair of shears (should be solid woody tissue, if fibrous you have cut too high on stem and should take a new stem)
3. Select 8-10 symptomatic stems to send for diagnostic confirmation. Dispose of remaining stems
4. Place samples in **paper bags** (not plastic), label with **SAMPLE ID (Assigned by MCG at time of sample request. ex. MC-2026-BLV-123), field ID, first and last name, and phone number.**
5. Keep cool in a fridge if possible (not frozen) and ship as soon as possible.