

Sample Collection and Submission Instructions – Palmer amaranth

Remember, taking a good sample is vital to obtaining useful laboratory results. Molecular assays conducted on plant samples RELY HEAVILY ON QUALITY SAMPLING PROCEDURES in order to produce quality results.

Leaves and Seedlings

1. Wear gloves or use paper towels when collecting plant material. This limits contamination issues caused by direct contact of plant material with bare hands. When sampling from multiple plants, be sure to change gloves or use fresh towels between collections to limit accidental contamination between the independent samples.
2. Place 2 – 3 leaves from a single plant into an envelope or paper bag. If the leaf is wet, dry prior to placement or wrap in a dry paper towel to wick up moisture.
 - a. Make sure only leaves from the same plant are packaged together.
 - b. Small plants or seedlings (less than 3 inches) ideally should be sent as whole plants, removing as much soil and moisture as possible before placing inside the bag. If the plant/soil is very wet, place inside a plastic bag prior to packaging in paper bag or envelope.
3. Once plant materials are packaged, clearly label each individual envelope/bag with a permanent marker for identification. The identification (ID) label on the sample bag needs to match the Specimen ID # listed on the Submission Form.
4. Complete and print off the Submission Form found on the NAGC website at www.genotypingcenter.com/wp-content/uploads/2019/05/Submission-Form-General-v3.0-1.pdf.
5. All shipments must be accompanied by a Submission Form. Send samples and completed Submission Form to the lab as soon as possible after collection. **Testing of samples will not begin without a completed Submission Form.** Please do not place the Submission Form inside a container that contains the plant material, rather place the Submission Form inside the shipping box/envelope, but outside of the sample container.
6. If the sample cannot be sent the same day, it should be kept at room temperature. Samples should be **stored for no more than 1 to 2 days** and **PREFERABLY SHIPPED OVERNIGHT** to ensure samples arrive in good condition. Degraded samples cannot be tested.

Questions regarding sampling and shipping procedures can be addressed by contacting the National Agricultural Genotyping Center Laboratory at 701-239-1451.

Ship Samples To:

**National Agricultural Genotyping Center
1616 Albrecht Blvd N
Fargo, ND 58102**