

Dr. W. Garrett Owen

(wgowen@uky.edu)

Delia Scott

(delia.scott@uky.edu)

University of Kentucky, Department of Horticulture, Lexington, KY

To best identify nutrient disorders or to determine the nutrient status of a crop, growers should sample leaf tissue for nutrient analysis. To sample leaf tissue for general routine nutrient analysis, follow this general procedure:

STEPS

1

Select plants of the same species and cultivar to sample.

QUICK TIP

Smaller-leaved species may require sampling more plants to obtain enough leaf tissue than species with larger leaves.



2

Collect 20 to 30 leaves by removing recently matured, fully expanded leaves from upper plant parts.



3

Gently wash sampled leaves in distilled water for 20 to 30 seconds and pat dry.

QUICK TIP

Removes fertilizer, spray residues, or other contaminants. Follow your preferred lab-specific sampling and preparation procedures.



4

Place leaf samples in a paper bag or lab issued envelopes and label with sample date, crop/cultivar, and location for sample.

QUICK TIP

Do not place leaf samples in plastic bags due to the potential of rot.



5

Provide all requested information to your preferred lab such as crop notes, fertility regimen, chemical applications, and/or when the symptoms were first noticed.



6

Mail or ship leaf tissue sample(s) within 24 hours.

