

LEAF SAP SAMPLING GUIDE

Hops

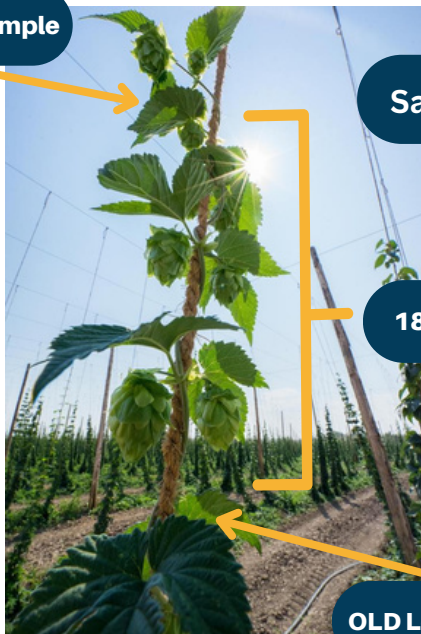


Keep in mind!

- Avoid outer rows and first and last 10 feet of a row.
- Do not mix varieties when sampling as may cause variation in analyses.
- Sample leaves with average leaf quality. Sample areas of abnormal growth separately.
- Sample consistently (sunny side of bine, avoid extreme weather, etc.)
- If leaves are wet at sampling lightly pat dry before shipping (moisture influences results).
- Sap Analysis data works best when used in progression to understand plant nutrient uptake.
- Sample either before or 3+ days after fertilizer/pesticides have been applied.
- Keep samples cool. Bring cooler to fields to store samples.
- Place sample submission form (Chain of Custody) in shipping container with samples.



NEW Leaf Sample



Sample leaf and petiole together

18"

OLD Leaf Sample



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Sampling Instructions

Sample Time: Take samples in the morning before 11 a.m. and temperatures less than 80 °F to ensure adequate leaf tension and moisture. Avoid sampling in the rain. Store samples in cooler.

Sample Size: Collect 80+ grams each of both new (young) and old leaves plus petioles for a collected total of 160+ grams per sample set. Bag new and old leaves separately in gallon zip lock bags labeled New and Old. Sample leaf and petiole together.

Initial Sampling: Begin sampling when bine is 14-18 inches long and sample newest fully expanded leaves only. Place stacked leaves + petiole in gallon zip locked bag labeled New.

Sequential Samples: Subsequent samplings are New/Old leaves sampled separately.

NEW- Sample youngest fully expanded leaf + petiole. Place stacked leaves in gallon zip lock bag labeled NEW. Ensure 18+ inches between new and old leaf sample locations.

New leaf = newest yet fully developed leaf and petiole.

OLD- Sample oldest yet fully functional and viable leaf = petiole; typically a darker green and thicker than new leaves. Place stacked leaves in separate zip lock bag labeled OLD.

Old leaf = oldest yet still viable leaf and petiole.

****Do not mix varieties when sampling as this may cause variation in analyses****

Keep samples cool. Ship overnight or 2-day on M/T/W (morning arrival time) with ice packs. Samples should not come into direct contact with ice packs. Let air out of bags before shipping.

All samples must be accompanied by a fully completed Sample Submission Form. Fillable version available on our website www.newagelaboratories.com.

