

# LEAF SAP SAMPLING GUIDE

## Grape



### Keep in mind!

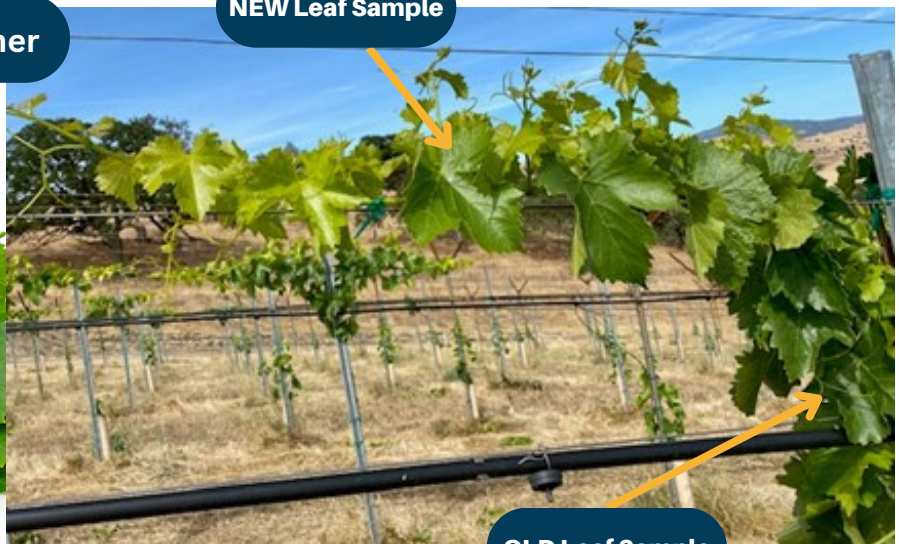
- Avoid outer rows and first 20 feet of a row.
- Do not mix varieties when sampling as may cause variation in analyses.
- Sample leaves with average leaf quality. Sample plants of abnormal growth separately.
- Sample consistently (sunny side of vine, avoid extreme weather, etc.).
- If leaves are wet at sampling lightly pat dry before shipping (moisture influences results).
- Sap Analysis data works best when used in progression. The more samples the better crop nutrient uptake can be illustrated. Sample either before or 3+ days after fertilizer/pesticides have been applied.
- Indicate growth stage on Sample Submission form with every sample shipment to the lab.



Sample leaf and petiole together



NEW Leaf Sample



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 100+ grams each of both new (young) and old leaves + petiole together for collected total of 200+ grams per sample set. Bag new and old leaves separately in gallon sized zip lock bags labeled and Old.

**Initial Sampling:** Begin sampling when vine has 5+ leaves. Newest yet fully expanded leaves that are approximately the 5th leaf from growth tip of the vine. Place leaves in zip locked bag labeled New. Growth stage: Pre-bloom.

**Sequential Samples:** New & Old leaf set every 2+ weeks in association with stage of growth.

**NEW-** Sample youngest fully expanded leaves from growing tip of the vine which will be approximately the 5th new leaf. Place stacked leaves in gallon zip lock bag labeled NEW.

**New leaf = newest yet fully developed leaf and petiole.**

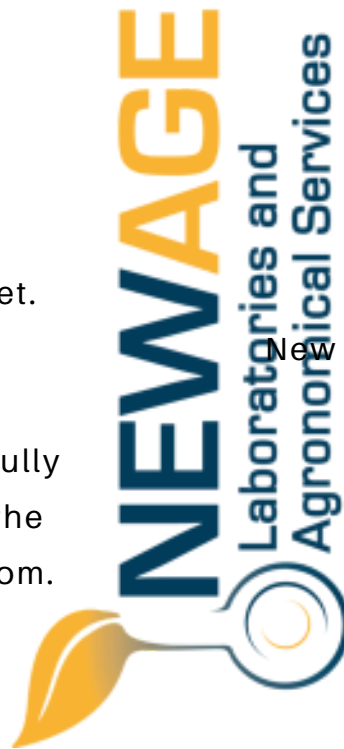
**OLD-** Sample fully functional old leaves; typically a darker green and thicker than young leaves. Place stacked leaves in separate gallon zip lock bag labeled OLD.

**Old leaf = oldest yet still viable leaf and petiole.**

**Growth Stages:** flower, fruit set (buckshot berries, bunch closure), veraison, pre-harvest, harvest.

**\*\*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](http://www.newagelaboratories.com).

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