## LEAF SAP SAMPLING GUIDE **Root Crops**



## Keep in mind!

- Avoid outer rows and first 20 feet of a row.
- · Sample leaves with average leaf quality. Sample areas of abnormal growth separately.
- Sample consistently; sunny side of plant, 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 and understood.
- Note fertilizer and irrigation times and application rates if possible.
- Sample either before or 3+ days after fertilizer/pesticides have been applied.



Sample Time: Sample in the morning before 11 a.m. and temperatures less than 80 °F for 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 + petiole for a collected total of 160+ grams per sample set. Bag new and old leaves separately in quart zip lock bag initially and gallon as leaves increase in size labeled New and Old.

Initial Sampling: Begin sampling when plant has 6+ leaves. Collect NEW fully developed <u>leaves + petiole</u> only. Place stacked <u>leaves + petiole</u> in zip lock bag labeled NEW.

Sequential Samples: New & Old compound leaf set every 2+ weeks.

**NEW-** Youngest inner fully expanded <u>leaves + petiole</u>. Place stacked <u>leaves + petiole</u> in zip lock bag labeled NEW.

New leaf = newest yet fully developed leaf

**OLD-** Oldest outer still healthy and functional <u>leaves + petiole</u>. Place stacked <u>leaves + </u> petiole in separate zip lock bag labeled OLD.

Old leaf = oldest yet still viable leaf

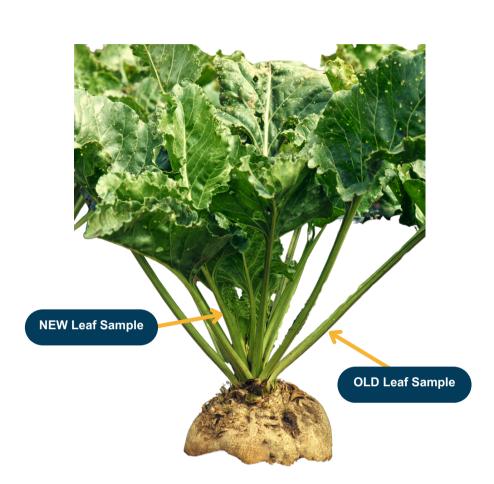
\*\*Do not mix varieties when sampling as this may cause variation in analyses\*\*



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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.