

## Root Crops (carrot, sugar beet, rutabaga) Sap Sampling Guide

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

**Sample Size:** Collect 80+ grams of both new (young) and old leaves for a collected total of 160+ grams per sample set. Collect new and old leaves separately. Initially use quart zip lock bags; as plants get larger and leaves increase in size use gallon-sized bags when needed (as to refrain from folding the leaves to fit into sample bags).



### Sampling:

**Initial Sample:** Begin sampling with 6+ young leaves. New fully expanded leaves with petioles only. Place leaves in quart sized zip lock bag.

**Consecutive Samples:** New and Old leaf set every 2+ weeks.

**NEW:** sample youngest inner fully expanded leaves with petiole. Place leaves in zip lock bag labeled NEW.  
**New leaf = newest yet fully developed leaf**

**OLD:** sample oldest outer still functional leaf with petiole. Place leaves in separate zip lock bag labeled OLD.  
**Old leaf = oldest yet still viable leaf.**

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



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General:

1. Avoid outer rows and 1<sup>st</sup> 20 feet of a row.
2. Sample leaves with average leaf quality. Sample plants of abnormal growth separately.
3. Sample consistently (avoid extreme weather etc.)
4. If leaves are wet at sampling lightly pat dry before shipping (moisture can influence results).
5. Sap analysis data works best when used in progression. The more samples the better crop nutrient uptake can be illustrated and understood.
6. Sample either before or 3+ days after fertilizer/pesticides have been applied.
7. **Keep samples cool.** Bring cooler to fields to store samples. **Ship: overnight or 2-day on M/T (morning arrival time), Fri shipping with Monday morning arrival time. Ship samples with ice packs. Insulate samples so leaves do not come into direct contact with ice packs.**

Sampling & sap analysis questions: contact your distributor or NEW AGE Labs (269) 637-5658.

Ship to: NEWAGE Labs  
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