



RECOMMENDED SAMPLING INTERVALS

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EMERGENCE	EARLY VEG	MID-VEG	HEAD FORMATION

## Kale Leaf Sampling Instructions

1. Collect **NEW** leaves and **OLD** leaves **SEPARATELY** in individually labeled bags:
  - New = newest recently-mature growth from the interior leaves of the plant
  - Old = oldest still-viable growth from the exterior leaves of the plant
2. Collect a **representative field sample** including one new leaf and one old leaf from 20-30 plants of the same cultivar and growing conditions. Each sample (new and old) should fill a **1qt plastic bag**.
3. **Remove petioles** and all other non-leaf plant material from sample leaves.
4. Complete a Leaf [Sampling Label](#) (linked) with your contact info, crop, cultivar, field/block info, new/old leaf, and desired agronomy services. Affix labels to the **outside** of each sealed plastic sample bag.  
*(Do not use paper bags or include paper in bags)*
5. **Keep samples viable** by minimizing shipping time and using cold-packs and/or insulated packaging when shipping leaves in warm conditions. Wrap frozen cold-packs in paper to insulate them from direct contact with samples.
6. Mail samples *(including payment if paying with check or money order)* to:

Apical Crop Science LLC  
1382 SE 3<sup>rd</sup> Ave, Suite 4  
Canby, OR 97013

**DO NOT SEND ANY INTERNATIONAL LEAF, SOIL, OR WATER SAMPLES WITHOUT PRIOR WRITTEN APPROVAL FROM APICAL.**

### TIPS FOR BEST RESULTS:

- Request Apical's [Agronomy Services](#) for nutrient *Target Range Charts* and *Detailed Recommendations*.
- Include notes about growth stage, health, pests/disease, and other points that will help us serve you.
- Be proactive by conducting 5-7 Leaf Extract Analyses throughout the growing (recommended sampling intervals listed in the table above).
- Solve stress, pests, or toxicities by testing and treating weekly until optimal health is achieved.
- Collect leaves at a consistent time of day, preferably prior to 10 a.m. to ensure minimal transpiration - about two hours after sunrise is optimal. For indoor, sample within one hour of light cycle start.
- Ensure leaves are clean of dew, dirt, and fertilizers - wash with clean, cold, non-chlorinated water if needed.
- Ensure leaves are surface-dry (not dried out) before bagging - use a paper towel or air-dry if needed.

\*Please do NOT leave paper towels (or anything that will dry out leaves) in bags with samples.