



EMERGENCE	1 ST LEAF	VEGETATIVE	FLOWERING	FRUITING
RECOMMENDED SAMPLING INTERVALS				

**Samples prior to 1st LEAF can be of the whole plant or single leaf sets.*

Tomato Leaf Sampling Instructions:

1. Sample New Leaves and Old Leaves ***SEPARATELY*** and place into ***individually labeled bags***.
 - a. New = newest **recently-mature growth** from the top of the plant.
 - b. Old = oldest **still-viable growth** from the bottom of the plant.
2. Select a **representative field sample** of a new leaf and an old leaf from 20-30 plants of the same cultivar and growing conditions. Each representative sample (new and old) should ***fill a 1qt plastic bag***.
 - a. For larger leaves (e.g. after late bud), stack and roll leaves to fit in a ***1-gallon bag***.
3. **Remove petioles**, and all other non-leaf plant material from sample leaves.
4. Complete a **Sampling Label** (linked), including contact info, crop, cultivar, new/old leaf. Affix labels to the ***outside*** of each sealable plastic sample bag. ***(Do not use paper bags or include paper in bags)***
5. Cold Packs and/or insulated packaging are recommended when shipping ***leaf samples*** in warm conditions. Wrap frozen cold-packs in paper to insulate them from direct contact with samples.
6. Mail samples to:

Apical Crop Science
1382 SE 3rd Ave Suite 4
Canby, OR 97013

Tips for best results:

1. **Obtain optimal plant health** by conducting ***5 Leaf Extract Analyses*** throughout the growing season (sampling intervals listed in the table above).
2. Always sample at a consistent time of day, preferably prior to 10 am to ensure minimal transpiration - about two hours after sunrise is optimal. For indoor, sample within one hour of light cycle start.
3. Ensure samples are as clean as possible - dew, dirt, dust, and fertilizers can affect test accuracy.
 - o If samples are not clean, wash leaves with clean, non-chlorinated cold water.
4. Ensure samples are surface-dry (**not dried out**) before bagging - dew, rain, and condensation affect accuracy.
 - o If samples are not dry, please dry with paper towel or air dry to ensure leaves are not wet in sample bag.
 - o **Please do NOT leave paper towels (or anything that will dry out leaves) in bags with samples.**