

## Sunflower Leaf Sampling Instructions

- 1. Collect NEW leaves and OLD leaves SEPARATELY in individually labeled bags:
  - New = newest <u>recently-mature growth</u> from the top of a plant.
  - Old = oldest <u>still-viable growth</u> from the base of a plant.
- 2. Collect a *representative field sample* of a new leaf and an old leaf from 5-10 plants of the same cultivar and growing conditions. Each sample (new and old) should fill a **1qt plastic bag halfway**. For larger leaves, stack and roll leaves to fit in a 1gal bag.
- 3. <u>Remove petioles</u> and all other non-leaf plant material from sample leaves.
- Complete a Leaf <u>Sampling Label</u> (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. (<u>Do not use paper bags or include paper in bags</u>)
- 5. <u>Keep samples viable</u> 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:**

- <u>Request Apical's Agronomy Services</u> for nutrient Target Range Charts and Detailed Recommendations.
- <u>Include notes</u> about growth stage, health, pests/disease, and other points that will help us serve you.
- <u>Be proactive</u> by conducting 5-7 Leaf Extract Analyses throughout the growing (recommended sampling intervals listed in the table above).
- <u>Solve stress, pests, or toxicities</u> by testing and treating weekly until optimal health is achieved.
- <u>Collect leaves at a consistent time</u> 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.
- <u>Ensure leaves are clean</u> of dew, dirt, and fertilizers wash with clean, cold, non-chlorinated water if needed.
- <u>Ensure leaves are surface-dry</u> (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.

<sup>\*</sup> Samples prior to STEM ELONGATION can be of the whole plant.