

### **What is Leaf Extract Analysis?**

Leaf Extract Analysis is a horticultural analysis technique used to analyze the mineral content of plant fluids.

### **What is the purpose of Leaf Extract Analysis?**

To use plant fluid mineral data reports to inform nutrient management decisions.

### **How do you use Leaf Extract Analysis to inform nutrient management?**

By sampling and analyzing different parts of the plant, agronomic principles can be utilized to determine which nutrients are deficient, balanced, or toxic.

### **Who can benefit from using Leaf Extract Analysis?**

Farmers that wish to improve crop productivity and health

Agronomists, Crop Advisors and Consultants that make fertilizer recommendations.

Organic growers looking to maximize the organic method

Conventional growers looking to minimize fertilizer costs

Students of Agriculture/Horticulture

### **What can I learn from Leaf Extract Analysis?**

How to optimize fertilization

General plant health by primary indicators

Balance of nutrients in difference parts of the plant

Toxic elements that are causing plant stress

Nitrogen excess/deficiency

Micronutrient deficiencies

Nutrient management preferences by cultivar

Much More...

### **Why is Leaf Extract Analysis beneficial?**

The mineral content of the plant fluids is a predictive indicator of plant tissue content.

By analyzing the plant fluids during transport prior to becoming part of the plant tissue, the mineral needs and excesses of the plant can be adjusted.

### **How does Leaf Extract Analysis differ from Plant Tissue Analysis?**

In Tissue Analysis, the plant fluids within the plant leaf are excluded and the cellular tissue is analyzed.

In Leaf Extract Analysis, the cellular fluids are analyzed and the tissue components are excluded.

### **Is Leaf Extract Analysis “Sap Testing”?**

Sap testing usually implies plant leaves are juiced to a pulp and analyzed in the field for 1-5 nutrient analytes using portable meters.

In Leaf Extract Analysis, the pure cellular fluids of the plant are extracted and analyzed on precision laboratory equipment for 22 or more analytes.

### **How do you extract the fluids?**

A multi-stage process that excludes the vascular transport bundles, cellular wall structures and other tissue components. The process produces pure plant fluids to be used for analytical purposes.

### **How do you analyze the fluids?**

We utilize scientifically accepted scientific methods for plant-matrix analysis using precision laboratory techniques for sub part-per-million quantitation.

### **How long does it take to get my report back?**

Usually within 3-5 days or less from the time the lab receives the leaves

### **How do I get started?**

Our Sampling Guide(s) have instructions for taking and submitting samples.

### **How do I read the reports?**

See our interpretation Guide.

### **Does it take a long time to learn to read the reports?**

By reading our interpretation guide, one can usually learn the basics within a half hour,

However, after generating and reading reports for 4 years we are still gaining insights.

### **How do I get the most out of the reports?**

Add General Notes to each report (\$15)

Book a private consultation

Gain Deeper insight on crop health with the Apical LEAF Program

### **What is Apical's LEAF program?**

Apical's LEAF program is our consulting program for growers. By working directly with the Apical staff, we pave the path to soil health, crop productivity and farm profitability.

Contact us for more info.

- Precision forecasting of plant needs based on analysis results
- Custom Data interpretation
- Detailed Crop Fertilizer Recommendations
- Custom Foliar Nutrition Blends
- Custom Biological Inoculant Recommendations
- Biological-Nutrient Synergy