



PLANTSAPTM



Talking “ *Plant* ” is our business



PlantSap™ is a specialist tool which provides the crop specialist the ability to provide the agricultural sector with the most detailed and insightful data that aids them in making optimal decisions.

What is PlantSap™ and what differentiates us?



PlantSap™ uses a nutritional-gradient method to generate precise information which provides a real-time insight into the health- and nutritional status of the plant.



We create the opportunity for you to respond Pro-actively.

The analysis provides the crop specialist with an easy to understand graph report which depicts the nutritional gradient. Three different results will be obtained through the analysis- sufficient, deficient and excessive. The report provides the crop specialist the opportunity to provide an all encompassing solution to their clientele by taking into account the deficient and excessive markers of the analysis. The report will enable the crop specialist to make the best product selection possible.

Turnaround time is 5-7 business days from sample taking to availability of report. The short turnaround time coupled with a wide array of markers provides the crop specialist the opportunity to give the farmer a real-time solution which will solve problems before they become hazardous. We give you the opportunity to be Proactive and not reactive.

Soil sampling remains a standard practice which provides insight. PlantSap™ analysis is in fact a reflection of the nutrients available in the soil. Both these methods are complimentary to each other.

The PlantSap™ technology/service as a whole is underwritten by leaders in the fields of laboratory techniques, plant physiology/biochemistry and plant nutrition. The experts were continuously part of the development, improvement and further study of the methods in use.



The laboratory uses plant sap from selected leaves and tests for 25 different markers to provide a complete oversight to the crop specialist.

Global markers: Brix, pH, EC, Chlorophyll.

Nitrogen: Nitrate, Ammonium, Nitrite, Total N and NTE (Nitrogen Transformation Efficacy).

Macro elements: P, K, Ca, Mg and S.

Micro elements: B, Mn, Cu, Fe, Zn and Mo. Others - Si, Ni and Co

Critical Markers: Na, Cl, Al, NO₂ and B.



What is the difference between a PlantSap sample and a leaf sample?

The biggest difference between a traditional leaf sample and plant sap is, PlantSap™ analyses the sap of the leaf where as a traditional leaf sample analyses the tissue. The traditional leaf sample provides a sum-total nutritional status of the previous 28 days which manifests in the tissue of the leaf, whereas PlantSap™ provides a real-time reflection of the current health- and nutritional status of the plant. During the processing of the traditional leaf sample, the sample is dried, processed and the remaining tissue is analysed, but PlantSap™ extracts the undisturbed sap and analyse it immediately. The all-encompassing information will be provided to the crop specialist. During the traditional leaf sample processing, contamination due to a foliar application is a standard problem which questions the integrity of the results. PlantSap™ procedures do not allow for contamination and thereby secures the integrity of the results.

Plantsap™ - Technique

The analysis of plant sap is a proven technique being used successfully worldwide. PlantSap™ researched the best techniques available and created our own innovative product.

PlantSap™ is unique in the sense that information from the plant is provided in real-time. The information comes directly from the plant itself which is most accurate.

Sampling and the selection of specific leaves procedures will be discussed as there are too many variables applicable. PlantSap™ training and accreditation must first be applied.



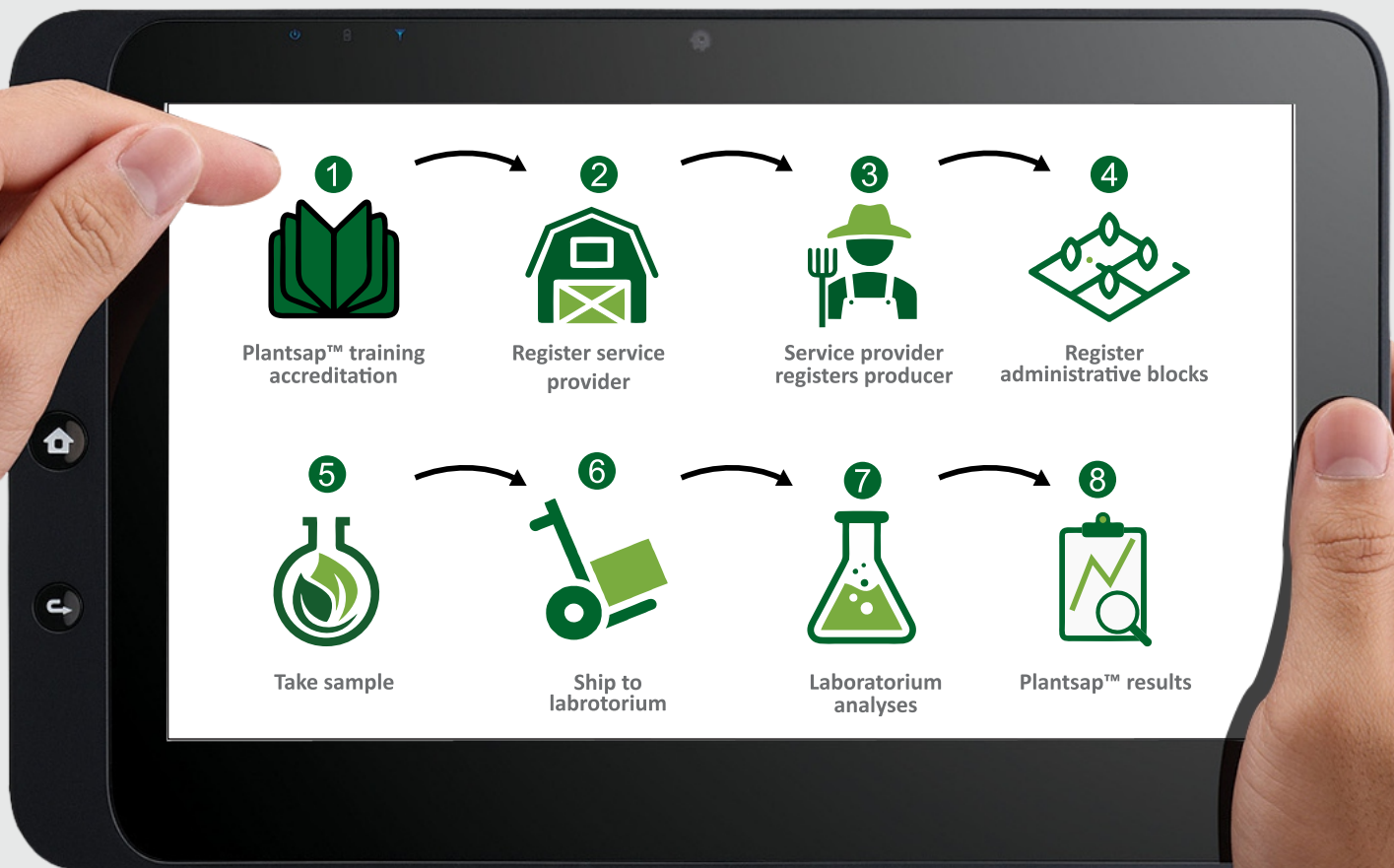
“Your plants are talking, best you start listening.”

Costs and analysis:

The cost per sample is handled individually depending on the size of the managed block, quantity of samples in a season as well as the type of crop tested.



Plantsap™ application:



The complete process is being driven by software to ensure the correct procedures takes place.