

Manual plant sap sampling

General



Contact details

NovaCropControl
Gasthuisstraat 20
5061 PB Oisterwijk
The Netherlands

www.novacropcontrol.nl

Joan Timmermans
Mobile: +316-83220623
E-mail: j.timmermans@novacropcontrol.nl

Koen van Kempen
Mobile: +316-57314128
E-mail: k.vankempen@novacropcontrol.nl



Sampling and sending samples

Location

Take the following steps into account when collecting leaf samples:

- Avoid the outer rows of the greenhouse or field. Also avoid the first and last 10 meters of a row.
- Sample leaves with an average leaf quality. Sample abnormal plants with e.g. deficiency symptoms separately. Might a deficiency be present in the young or old leaves of the total crop, then sample these leaves regularly as a young or old leaf sample.
- Take into account the sunny and shady side of the plant. Always consistently sample the same side.

Time of sampling

It is strongly recommended to take the samples before 9:00 AM. The plant will then have enough leaf-tension with proper moisture conditions.

Moisture on the sample

When the leaves are wet on the outside due to dawn or rain, the leaves can be dried with a tissue. Leaves have to be dry from the outside to be analyzed because water will have an influence on the results.

Part of the plant

For sampling, take the **youngest, fully developed leaf**. Also take the **oldest, vital leaf**. Please remove the petioles from the leaf. These petioles can have a significant effect on the analysis of the leaf sample. So for the analysis you will have an old leaf sample and a young leaf sample.

Sample size

In general 20 leaves should be enough for a complete analysis (20 young and 20 old leaves). This amount depends on type, size and shape of leaves. Might you doubt about the sample size, please contact us.





Stacking the leaves

To ensure a fluent processing of the samples, it is important to prepare the samples properly. Please stack the leaves as shown below. See the pictures below (tomato leaf as an example).



Packing the leaves

Put the leaf sample in the plastic zip-bag. Push out the air inside and close the bag. Put a pre-printed label on the sample bag and fill in the needed information. Make sure the barcode is visible, see the pictures below.





Sampling water

Make sure that the bottle is completely full. The analysis may be wrong if there are air bubbles in the bottle.



Take a drip water sample at the dripler like in the picture below. A slap water sample can be taken by a syringe out of the substrate bag. Make sure you take the samples from several substrate bags, see the picture below. A drain water sample can be taken from the water return system.



The labels for a water sample need to be placed in such a way that the barcode is still readable.





Packing the samples

Put all samples in the envelope and make sure it fits in a mailbox (max 3,5 cm. high).



Sending the samples

The sample zip-lock bags with barcode can be sent in the envelope, in case you want to send more than one sample, please send them together in 1 box, so they will arrive together. Then put sufficient postage on the envelope or package. Always check the weight. Please take care that envelopes are sealed well. You can put an extra tape over the closure to avoid opening during transportation.

We recommend to sample crops on Friday and send the same day by DHL or FedEx, then NovaCropControl is receiving your samples in the beginning of the next week. Please put €1.00 as the shipment value on the sample package.

Please send samples to the address below:

NovaCropControl
Gasthuisstraat 20
5061 PB Oisterwijk
The Netherlands

