

Plant sap sampling guide

Apple – Pear



Contact details

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Collecting and submitting samples

Location

Take the following steps into consideration when collecting leaf samples:

- Avoid the outer rows of the greenhouse or field and the first and last 10 yards of a row.
- Sample leaves of average leaf quality.
- Sample abnormal plants (with deficiency symptoms) separately. If a deficiency might be present in the young or old leaves of the total crop, sample these leaves separately as a young or old leaf sample.
- Keep in mind 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.

Begin with sampling just before flowering, every two or three weeks. Until harvest. You can also choose to sample different stages:

- One month before flowering (cluster leaf, see pic. 1)
- Beginning of flowering (young/old leaf, see pic. 2)
- Early fruit set
- When fruit size is about 25mm
- When fruit is fully grown



Pic. 1

Plant parts

Sample the young leaf from the top of the shoot and the old leaf halfway the shoot (see pic.2)

Remove the petioles to avoid that these will affect the sample. The petioles can have a significant effect on the analysis of the leaf samples. When leaves are wet because of rain or dew, dry them first with a tissue.





Pic. 2

Sample size

For an average, representative sample about 40-50 leaves are needed, at least 150 grams. Sample size can vary, depending on leaf type (size and thickness). If you have questions about sample size, please contact us.

Packing the leaf samples

Pack the young and old leaf samples separately, these will be two different samples. Stack the leaves to assure fluent processing and put in a plastic zip-lock bag. Make sure all air is out, so any leaf evaporation is excluded (see pictures below).





Fill in the labels correctly and place them on the bags (see pictures below). Order preprinted labels before submitting samples for analysis.



Packing the samples

Put all samples in the envelope and make sure it fits in a mailbox (max 1.38 inch high).



Sending the samples

The sample zip-lock bags with barcode can be sent in the envelope. If you want to send more than one sample, send them in 1 box. Put sufficient postage on the envelope or package. Always check the weight. Make sure the 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.

Always enclose the document on the next page. This will prevent the package from being delayed at customs.

Please send samples to the address below:

NovaCropControl
Gasthuisstraat 20
5061 PB Oisterwijk
The Netherlands

www.novacropcontrol.com





Additional information regarding plant leaf shipments to NovaCropControl for analysis

Always enclose this document with a shipment to the NovaCropControl Laboratory, please complete **ALL** steps 1 - 9: Encircle your answer or tick box

1 This shipment contains water samples: Yes No

2 This shipment contains plant leaves of the following crops: (tick box)

3 Please fill in at "Other" when your crop is not listed below.

Alfalfa	
Almond	
Apple	
Apricot	
Asparagus	
Barley	
Basil	
Bean (Soybean)	
Beet	
Blackberry	
Blueberry	
Bok Choy	
Broccoli	
Brussels Sprout	
Cabbage	

Carrot	
Cauliflower	
Celery	
Cherry	
Citrus	
Coffee	
Corn	
Cucumber	
Currants (red/black)	
Eggplant	
Garlic	
Grape	
Grapefruit	
Grass/Hay	
Hops	

Kale	
Kiwi	
Leek	
Lettuce	
Lupin	
Melon	
Onion	
Parsley	
Pea	
Peach	
Pear	
Pepper (Sweet/Bell)	
Pickles	
Plum	
Potato	

Radish	
Rapeseed	
Raspberry	
Rhubarb	
Shallot	
Spelt	
Spinach	
Squash	
Strawberry	
Swede	
Tobacco	
Tomato	
Wheat	
Zucchini	

Other	
Other	
Other	
Other	
Other	

4 All the plant material in this package is dead Yes

5 The plant material in this package is destined for destructive analysis purposes only Yes

6 The plant material in this package is not intended for reproduction or propagation purposes Yes

I declare that the information given is correct.

7 Name:

8 Date:

9 Signature: