

 **NovaCropControl**

Sampling guide

Asparagus



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Sampling of leaves

Location

Take the following steps into consideration when collecting leaf samples:

- Avoid the outer rows of the field and the first and last 10 meters of a row.
- Sample leaves of average leaf quality.
- Sample abnormal plants (with deficiency symptoms) separately. In case 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.

- We can also analyze the root, we advise to begin with sampling in December until February.
- We advise to sample the leaf (foliage) after emergence.

Excess moisture

When leaves are wet on the outside due to dew or rain, they can be dried with a tissue. Leaves have to be dry from the outside to be analysed because excess moisture will dilute the results.

Plant parts

For a young leaf sample, pick the **youngest, fully developed leaves**. In practice, this means stripping the top (pict. 2). Also separately pick the **oldest, but still vital leaves**. (see pict. 1 and 2). You can collect needles quicker by stripping them off from the top of shoot. With the older foliage, also ensure that the end of the side shoot is sampled (see pict. 2), where the needles are located. Strip the shoot here as well so that the needles are loose and can be collected.



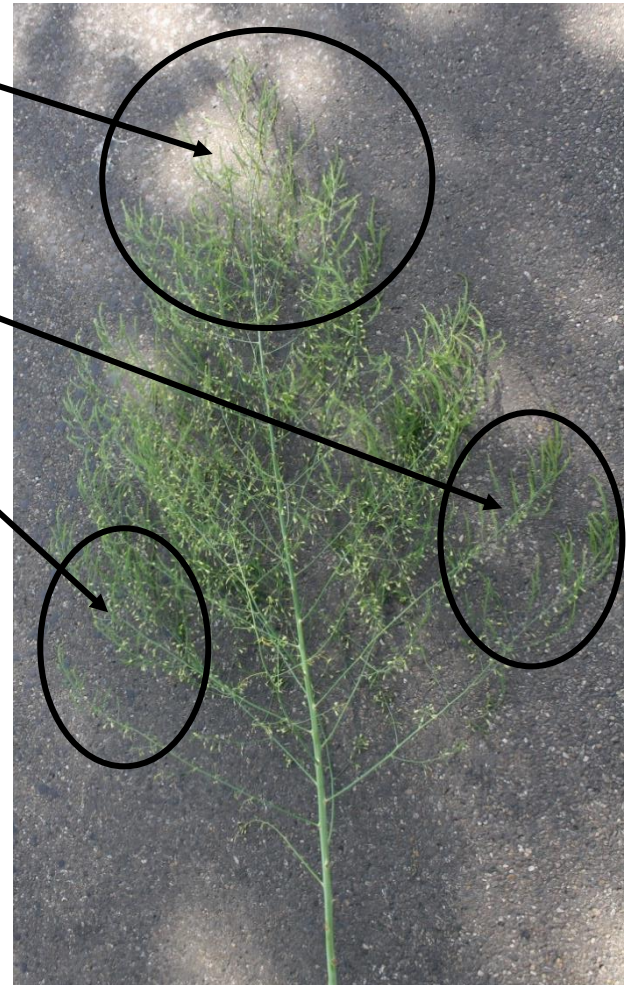


Needles of young foliage parts

Needles of old foliage parts



Pict. 1



Pict. 2

Stripping involves manually collecting needles by moving your hand from the thickest to the thinnest part of the head or side shoot to loosen the needles, leaving the head or side shoot itself in place. Of course, only from the areas circled in red in pict. 1.

Sample size

In general 100-125 grams of needles should be enough per sample (a filled sample bag). This amount depends on type, size and shape of leaves. If in doubt about the sample size, please feel free to contact us.





Packing the leaf samples

To exclude leaf evaporation, make sure all air is pushed out of the bags. See pictures.



Applying labels

Fill in the labels and place them on the bags. Pre-printed labels are preferred, this saves time and reduces the chance of errors. Please let us know if you need help with this.





Sampling of stems and roots

Stems and roots analysis is only permitted within the EU.

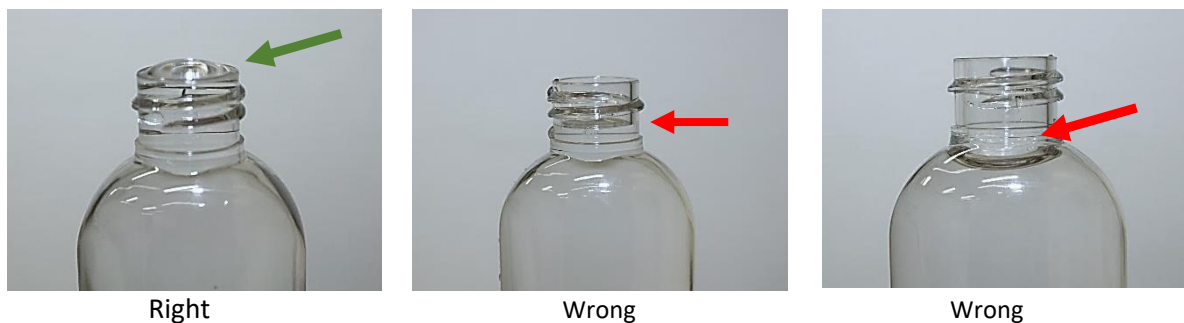
It is also possible to analyse stems/roots samples. For a sufficiently representative sample 10 stems and 50 roots are needed, although the amount can vary depending on the size of the stems and roots. Make sure to take a representative sample scattered over your plot.



The image above shows how the stems/roots should be packed, make sure they are clean and dry. Pack all the samples together in a box and ship them to us.

Sampling of water

Make sure the bottle is filled completely. Remaining air in the bottle may influence the analysis.



Spring water

You can take a spring water sample by first running the pump for half an hour and then taking the sample. This is important because the water in the upper part may have reacted differently and is therefore not representative of the spring water.

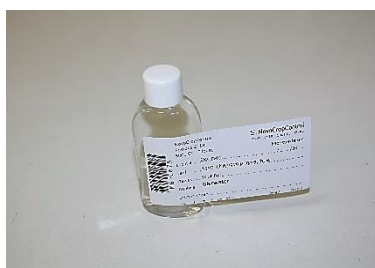
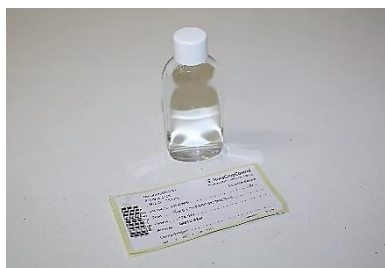
If you want to know how much iron is present in the well, note "+ FE in acid" on the bottle. This requires an additional test. Please note: an additional invoice will be sent afterwards for a blank analysis. This analysis is not accredited.





Applying labels

After taking the sample place the cap on the bottle and turn the bottle around to check no air is left in the bottle. Fill in the labels and place them on the bottle. Pre-printed labels are preferred, this saves time and reduces the chance of errors. Please let us know if you need help with this. Place the sticker on the bottle as displayed below, make sure the barcode is clearly readable.



Sending of samples

Keep in mind the following matters when sending the samples:

- Put all samples in one NovaCropControl envelope or one box so all samples arrive at the same time. (It is possible separate packages shipped on the same day will arrive on different days).
- Make sure the package is securely sealed. It is recommended to reinforce the closure with tape.
- Ensure that postage label on the envelopes and mailbox packages is sufficient.
- Larger sample quantities that do not fit into envelopes can be packaged in a box with a sufficient postage label.
- When shipping from outside of the EU consult our shipment guide for sending samples to avoid clearance delay at customs. You can find this guide on our website.

Shipping address

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Nijverheidsweg 30
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The Netherlands

