

Analyseenheden – Department of Agroecology

Analyseenheden welcomes you to our homepage and as our customer

In general

Analyseenheden is a group within the section Soil Fertility under the Department of Agroecology.

Here at Analyseenheden, we perform routine analysis work for colleagues from Aarhus University. We perform analyses as a revenue-funded company. Analyseenheden is not accredited, but in large part, we meet the standards in: *DS/EN 17025 Generelle krav til prøvnings- og kalibreringslaboratoriernes kompetence.*

You can order a wide spectrum of analyses in the matrices: soil, water (including extracts), and plant material. However, you cannot order analyses in the following matrices: slurry, organic and inorganic fertilisers, compost, garden centre soil, sludge, leachate, etc., as well as animal products. Analyseenheden performs the analytical work in our own laboratories, and we send the results to you in an Excel spreadsheet.

Staff:

Ulla Husballe Rasmussen, LAB technician
Mette Søgaard Ejsing-Duun, LAB technician
Olga Alfastsen, LAB assistant
Jørgen Eriksen, Section Manager, Professor
E-mail address for Analyseenheden:

Phone:

9350 8182
9350 8181
9350 8030
5168 0554
anen@agro.au.dk

Address – shipment of samples (carrier/post)

Aarhus University
Department of Agroecology
Analyseenheden
Postboks 50, Foulum
8830 Tjele
Attn.: Goods reception C20

Samples which you can hand in personally: Sample Reception, PV26, room 2171

Sample shipment

Internal customers: You can find Analyseenheden's requisition templates for soil, water, and plant samples on our webpage: <http://agro.medarbejdere.au.dk/forsoegsplanlaegning-i-laboratorie-og-mark/analyseenheden/>

When you have filled in the requisition, you mail it to: anen@agro.dk. Also, remember to enclose a copy of your requisition among your samples.

Packaging

Liquid samples: We receive liquid samples in the customer's packaging. We can return the remaining samples and packaging after we have completed the analyses. And we can return the packaging emptied and cleaned against payment – see the price in below List 3.

Soil samples: We receive soil samples in Analyseenheden's boxes, or as agreed in plastic bags.

Plant samples: We receive plant samples as agreed in the customer's or Analyseenheden's boxes, or plastic bags. When we grind the plant samples, we move the plant samples over into Analyseenheden's internal packaging products.

Sample sizes

Water samples: We only receive water samples in plastic or glass flasks, which can hold maximum 0.5 litre.

Soil samples: We only receive soil samples, which as dry matter are equivalent to a box of maximum 1 kg.

Plant samples: We only receive plant samples, which as dry matter are equivalent to a plastic container of maximum 250 grams.

Completion date

You cannot have your analyses performed and be ready at a specific date or deadline.

We analyse the samples as they arrive at Analyseenheden; meaning first in means first out.

The completion date is dependent on the number of staff working and the amount of received samples. For instance, we often experience that we receive extreme amounts of plant- and soil samples within a relatively short period in the autumn.

If you need to have your samples analysed within a specific date, you are always welcome to ask Ulla, Olga, or Mette whether this is at all possible.

You are, of course, always welcome to ask when you can expect that your samples can be completed – and we will give you an estimate.

LIST 1

| | | | |
|--------------------------------|-----------------------------|-------------------------------|-------------------------|
| Vælg rekviert | Ib Sillebak 620 | Marianne G. Bertelsen 308 | |
| Anders Almskou-Dahlgaard 836 | Ilse Ankjær Rasmussen 824 | Marianne Hammershøj 2043 | |
| Anette Thybo Kistrup 902 | Inge S. Fomsgaard 809 | Martin Jensen 420 | |
| Anton Thomsen 533 | Ingrid K. Thomsen 534 | Martin Tang Sørensen 2042 | |
| Bent Borg Jensen 2020 | Jakob Sehested 2064 | Martin Weisbjerg 2002 | |
| Bent Jørgen Nielsen 702 | Jan Værum Nørgaard 2032 | Mathias N. Andersen 508 | |
| Bent Tolstrup Christensen 502 | Jens Grønbech Hansen 603 | Mette Lægdsmand 555 | |
| Bernd Wollenweber 113 | Jens Malmkvist 2115 | Mette Skou Hedemann 2019 | |
| Birka Falk Kühn 302 | Jens Petersen 528 | Mette Vaarst 2113 | |
| Birte Boelt 104 | Jim Rasmussen 558 | Mogens H. Greve 614 | |
| Birthe Damgaard 2103 | Johannes Ravn Jørgensen 102 | Mogens Vestergaard 2049 | |
| Bjørn Molt Petersen 619 | John Hermansen 2125 | Niels Bastian Kristensen 2034 | |
| Bo Melander 816 | Just Jensen 2085 | Niels Erik Andersson 412 | |
| Bo Thomsen 2089 | Jørgen Christiansen 202 | Niels Henrik Spliid 830 | |
| Bo Vangso Iversen 551 | Jørgen E. Olesen 543 | Niels Oksbjerg 2050 | |
| Carl-Otto Ottosen 410 | Jørgen Eriksen 513 | Niels Peter Pedersen 1501 | |
| Charlotte Kjærgaard 557 | Jørgen Mogensen 1101 | Nuria Canibe 2025 | |
| Charlotte Lauridsen 2045 | Jørgen Villebro 914 | Ole Callesen 303 | |
| Christian D. Børgesen 615 | Jørn Nygaard Sørensen 311 | Ole Green 2137 | |
| David Croft 213 | Kai Grevsen 309 | Ole H. Olsen 2031 | |
| Dorthe Carlson 2033 | Karen K. Petersen 404 | Ole Højberg 2069 | |
| Elly Møller Hansen 516 | Karen Søegaard 211 | Ove Edlefsen 1201 | |
| Emøke Bendixen 2044 | Kell Kristiansen 419 | Peer Berg 2083 | |
| Erik Fløjgaard Kristensen 2129 | Kirsten Jacobsen 2011 | Per Madsen 2087 | |
| Erling Nielsen 1102 | Kirsten Schelde 554 | Per Nielsen Kudsk 805 | |
| Finn Christensen 544 | Klaus Lønne Ingvarsen 2108 | Per Schjønning 506 | |
| Finn Pilegaard Vinther 535 | Klaus Paaske 722 | Peter Hartvig 835 | |
| Finn Plauborg 608 | Knud Erik Bach Knudsen 2015 | Peter Kryger Jensen 804 | |
| Frank Oudshoorn 2135 | Knud Larsen 271 | Peter Lund 2004 | |
| Gitte Holton Rubæk 530 | Kristen Sejrsen 2041 | Peter Løvendahl 2086 | |
| Goswin Heckrath 550 | Lars Elsgaard 512 | Peter Sørensen 547 | |
| Hanne Damgaard Poulsen 2005 | Lars Erik Holm 2092 | Peter Theil 2067 | |
| Hanne L. Kristensen 917 | Lars Henrik Jacobsen 417 | Poul Erik Lærke 216 | |
| Hanne Lindhard Pedersen 310 | Lars Juhl Munkholm 552 | Poul Henckel 2051 | |
| Hans Benny Rom 2123 | Lene Juul Pedersen 2116 | Preben Bach Holm 105 | Søren Krogh Jensen 2013 |
| Helle Nygaard Lærke 2017 | Lene Pedersen 913 | Preben Olsen 602 | Søren O. Petersen 546 |
| Henning Thomsen 553 | Lillie Andersen 435 | René Gislum 110 | Søren Pedersen 2134 |
| Henrik Kristiansen 2171 | Lis Sørensen 312 | René Larsen 606 | Tavs Nyord 2136 |
| Henrik Møller 2128 | Lis Wollesen de Jonge 545 | Ricarda Engberg 2021 | Tommy Dalgaard 616 |
| Henrik Poulsen 2046 | Lise Deleuran 106 | Rikke K. Jensen 829 | Torben Larsen 2101 |
| Henry Jørgensen 2014 | Lise N. Jørgensen 720 | Sanna Steinfeldt 2009 | Troels Kristensen 2122 |
| Holger Bak (Foulumgård) 548 | Liselotte Puggaard 2024 | Solveig Kopp Mathiassen 815 | Uffe Jørgensen 521 |
| Holger Thrane 2175 | Lotte Bach Larsen 2063 | Stig Purup 2053 | Uffe Schmidt 2141 |
| | | Susanne Elmholt 505 | Ulla Kidmose 905 |



LIST 2

The condition of the test on arrival at Analyseenheden

| Code | Test condition: |
|-------------|----------------------------|
| 10 | Fresh – treated |
| 20 | Fresh – untreated |
| 30 | Freeze-dried – grinded |
| 40 | Freeze-dried – not grinded |
| 50 | Heat-dried – grinded |
| 60 | Heat-dried – not grinded |
| 70 | Frozen – untreated |

LIST 3

Status after being analysed

| Code | Status after being analysed |
|-------------|---|
| 1 | We store the samples after we have sent the analysis results |
| 2 | We return the samples |
| 11 | We return the flasks after being washed against a small fee (price 4,- DKK per flask) |

Water: We store the water samples for 3 weeks after the completion date.

Soil and plants: We store dry and grinded samples for 1-2 years. The original sample will not be stored.

Pre-treatment of water samples

In general: We do not perform pre-treatments unless the specific analysis requires it. We store the samples at +4°C or at -18°C before we conduct the analyses. When the analyses have been made, we store all the samples at +4°C.

Pre-treatment of soil samples

In general: We dry the soil samples at 60°C for 18-24 hours. Subsequently, we pulverise the clods and particles in a soil grinder where stones larger than 2 mm will be sorted out. When it comes to mineral soil, the maximum particle size is 2 mm. Then we store the mineral soil in cardboard boxes in a dry place at room temperature – and finally, we analyse without further drying process.

Exception: We store samples for N-min (nitrogen, anal. 431 - which can be mineralized) as well as samples to determine nitrate-N and ammonium-N in 2 M KCl, 0.01 M CaCl₂ respectively, or 0.5 M K₂SO₄, in the freezer until we conduct the actual analysis in the sample. If the sample require other analyses, we dry the soil samples, etc.

Pre-treatment of plant samples

In general: We dry the samples at 60°C or 80°C. For the plant samples, we use a Retsch Mill ZM 200, and for seeds we use a Retsch Cyclone Mill Twister.

Exception: None

Method description

You can find our technique description on the Intranet:

<https://agro-web1.tuni.au.dk/metoder>