

Diagnosics



Every grower and producer wants to be able to supply their customers with healthy and true to type plant material. Naktuinbouw tests seeds, plants and trees for health and quality and can check the identity of plant material. Our Testing & Analyses services are available to everyone. We have a large laboratory with high-tech equipment and various teams with their own expertise.

Testing for symptoms

The Diagnostics Team investigates and tests samples of plants with symptoms. Our employees have extensive knowledge about symptoms caused by plant pathogens, such as fungi, bacteria, viruses, viroids and nematodes. Various crops that arrive from all over the world ensure their knowledge continues to grow.

Every year, new diseases are identified that can threaten a crop. We can test affected plant material to ensure action is quickly taken and damage is limited.

What can you expect from us?

Problems are always unexpected so you can submit samples at any time. We assess your sample after receipt and create a diagnostic plan to determine what we will test the sample for. We will start testing as soon as possible and send you the results after completion.

What techniques do we use?

- ELISA for viruses
- PCR for viruses, viroids, bacteria, fungi
- Plating methods for bacteria, fungi
- Microscopy for fungi, nematodes
- Sequence analysis for viruses, viroids, bacteria and fungi

Testing & Analyses



Testing for health

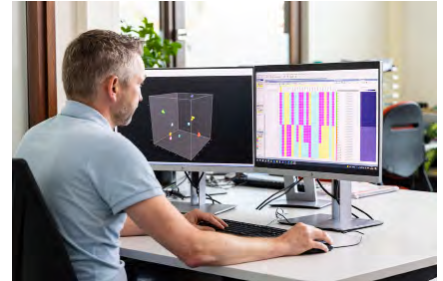
At Phytopathology, we examine the health of plant propagating material. Plant material with no visible abnormalities may still have quality defects or carry damaging viruses, viroids, bacteria, fungi or other organisms. Our laboratory tests give insight into the condition of the propagating material.



Seed analysis

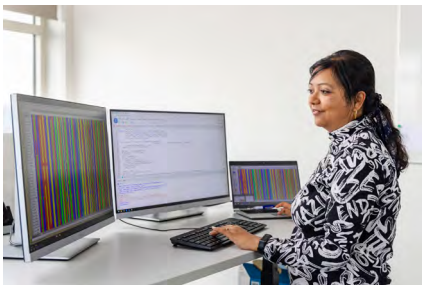
At Seed Analysis, we examine the quality and purity of plant propagating material.

What is the potential germination vigor and what can be expected in terms of usable plants? Is the seed pure? Does it contain prohibited weed seeds? You can contact us for all these questions.



Identity

Our Molecular Markers team performs independent genetic tests to investigate issues related to plant identity. A DNA profile is a powerful tool in crime investigations, but it can also solve identity issues in the plant world. Are you unsure about the identity of a variety? Do you suspect a mixed up in a lot or do you have a suspicion of an infringement on your protected variety or parental lines? Variety Tracer enables us to find the answers.



Bioinformatics

We analyse DNA data to support identity determination, find (new) pathogens and their detection. Our investments in machine learning and artificial intelligence (AI) enable even more effective analysis of large datasets with images and DNA data. This provides the foundation to further develop our service provision for you.



Healthy plant material

Due to phytosanitary risks of introducing (new) quarantine organisms, imports of plant material of certain fruit crops are banned in Europe. Special dispensation from the Netherlands Food and Consumer Product Safety Authority means we can import this material via our Post Entry Quarantine (PEQ) station. The material can be released if no quarantine organisms are found after thorough testing.



Contact information

Health Testing & Analyses
 Sotaweg 22
 2371 GD Roelofarendsveen
 Tel. +31 (0)71 332 62 62
 laboratoria@naktuinbouw.nl

Test Center Horst
 Tienrayseweg 9a
 5961 NK Horst
 Tel. +31 (0)77 398 59 19
 toetscentrum@naktuinbouw.nl