

Healthy plant material



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.

Post Entry Quarantine (PEQ)

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.

Making material virus-free

We can treat woody plants infected with viruses and/or phytoplasmas, and tissue that may be virus-free is isolated. Making material virus-free is particularly worthwhile for vegetatively propagated plant varieties, as cuttings and grafts can transfer the viruses at propagation.

Bioassays

We use a bioassay if no reliable laboratory test is available (yet), if it is unclear which viruses are to be tested for or for diagnostic issues. This is used for herbaceous test plants and woody indicator plants (mainly for fruit crop research purposes).

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

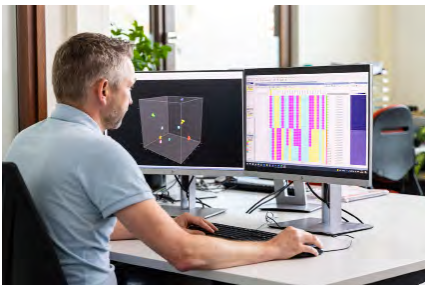
At Seed Analysis, we examine the quality and purity of plant propagating material.

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.



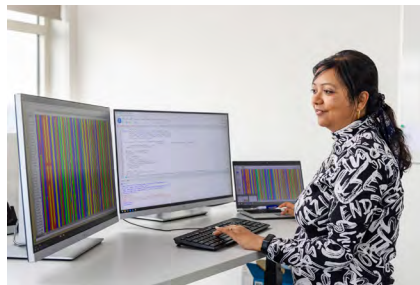
Diagnostics

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.



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.



Contact information

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