



## **Naktuinbouw Laboratories Price list 2024**

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## Information & Contact

### General instructions on submitting samples

- \* The material must be packaged in plastic and the packaging must be sealed properly. Ship the sample in a sturdy box and include the submission form with the samples in the box.
- \* Liquid samples must be submitted in vapour-tight packaging.
- \* Submission forms for the different types of orders can be found at our website, they can also be requested at the administration (laboratory@naktuinbouw.com).
- \* Shipments of plant or seed samples for research purposes from outside the European Union (3rd countries) need to be accompanied by a phytosanitary certificate or a letter addressed to the Dutch NPPO (DOIV). You can request the letter on our website. Please contact our lab administration (laboratory@naktuinbouw.com).
- \* If you state on your shipment that it is URGENT and has to be given priority, the sample will be prepared and tested as soon as possible. An extra urgency rate will apply.

### myNaktuinbouw

Requests for seed analysis, seed health testing and nematode testing, can be submitted electronically through myNaktuinbouw. You enter the data of the sample and select the appropriate tests. Subsequently, the sample can be sent to Naktuinbouw. When results of the tests are ready, they are available at myNaktuinbouw. You will receive the certificates as you're used to. More information can be found on [www.naktuinbouw.com](http://www.naktuinbouw.com) or feel free to contact us via: [mijn@naktuinbouw.nl](mailto:mijn@naktuinbouw.nl).

### Additional instructions

#### Submitting seeds

- \* Seed tests have been developed and validated for untreated seeds. Since the reliability of health tests may be affected if seeds have been treated, submitted seed samples should preferably be untreated. This does not apply for tests where it is stated that it can be applied on treated seeds.
- \* If seeds have been disinfected, coated or pilled, please inform us accordingly for the sake of the safety of our employees and possible influence on test results.

#### Submitting plant material

- \* Please note that you do not send plant material on Friday due to the weekend. We would like to receive your material no later than the Wednesday before the week of the assessment.
- \* The samples must be individually packed and labeled. For ELISA and PCR test, please take a look at the [manual](#).
- \* If you have more questions about sampling, please contact our customer service (laboratory@naktuinbouw.com).

#### Submitting material for diagnostic testing

- \* Pack roots and leaves in such a way that leaves cannot be polluted by soil, e.g. by wrapping the roots in a separate plastic bag and sealing it with a elastic band around the stems.
- \* Send a whole plant if possible. Leaf symptoms may be caused by root problems.
- \* If needed you can send pictures to [diagnostiek@naktuinbouw.nl](mailto:diagnostiek@naktuinbouw.nl).

#### Submitting material to make it free from viruses

- \* Special conditions apply to the submission of material which has to be made free from viruses. You can obtain more information at Naktuinbouw Test Center in Horst (Netherlands); [testcenter@naktuinbouw.com](mailto:testcenter@naktuinbouw.com) or by phone on +31 77 398 59 19.

## Contact with Naktuinbouw Laboratories

You can contact the Laboratory Administration directly for any questions and assignments:

Administration +31 71 332 61 50  
Planning +31 71 332 62 40  
e-mail [laboratoria@naktuinbouw.nl](mailto:laboratoria@naktuinbouw.nl)

### Shipping address for samples

Naktuinbouw  
attn. Administration Laboratories  
P.O. Box 40  
2370 AA Roelofarendsveen  
The Netherlands

With **large quantities of samples** (e.g. on a pallet), please use the visiting address:

Naktuinbouw  
Sotaweg 22  
2371 GD Roelofarendsveen  
The Netherlands

For specific diagnostic enquiries please contact our Diagnostic department:

Tel. +31 71 332 62 55  
e-mail [diagnostiek@naktuinbouw.nl](mailto:diagnostiek@naktuinbouw.nl)

If you have any specific laboratory questions regarding diseases in fruit crops, arboricultural crops or strawberries, contact Test Center Horst:

Tel. +31 77 398 59 19  
e-mail [toetscentrum@naktuinbouw.nl](mailto:toetscentrum@naktuinbouw.nl)

## Terms and conditions of delivery and disclaimer

The General Terms and Conditions of Naktuinbouw apply to all services provided by the Naktuinbouw Laboratories (registered with the Chamber of Commerce and Industry for Rijnland in Leiden, the Netherlands, under no. 41150707). You can find on our website: [www.naktuinbouw.com/terms-and-conditions](http://www.naktuinbouw.com/terms-and-conditions).

All amounts stated are excluding VAT. Changes to rates are reserved.

If testing / diagnosis is not carried out by Naktuinbouw but, after having consulted the client, is subcontracted to a third party, the corresponding costs will be charged to the client.

If you state on your package that it concerns an URGENT assignment, an urgency rate will be apply.

Diagnostic samples are always priority; an extra urgency rate will apply.

Additional testing may be required if a possible pathogen is found. Extra costs for confirmation testing will be charged.

The results of tests or assessments provided by Naktuinbouw Laboratories only relate to the actual sample tested and not to the lot concerned, unless Naktuinbouw states otherwise.

## General costs

Naktuinbouw charges administrative fees per registration.

**Basic fee 2024**

\* Basic rates will be calculated per assignment<sup>1</sup>:

Basic rate per assignment per crop	Regular	€ 32,30
	Via myNaktuinbouw	€ 19,50
Basic rate per sample		€ 0,50

- \* Assignments for plant material: Samples of the same crop are jointly registered in one assignment. The basic rate will be charged once.
- \* Assignments for seeds and soil: Each sample is registered as a separate assignment. The basic rate is charged per sample.
- \* Assignments for a combination of soil, seeds and plant material: These are different samples and are registered as a separate assignment. The basic rate is charged per assignment.

<sup>1</sup> This applies only to Variety Identification, Seed Quality Analysis and Phytopathology assignments

In addition to the tests performed by Naktuinbouw, we also offer a number of general services.

Services	Rate
Creation of an ISTA certificate	€ 13,40
Disinfection of seeds before testing	€ 24,50
Handling fee sample bags	€ 2,40
Urgency fee	€ 93,50
Special tests by Netherlands Food and Consumer Product Safety Authority (NPPO)	€ 260,00
Fee per hour for extra research (if needed)	€ 162,00
Alteration on an ISTA certificate	€ 41,70
Alteration on a Naktuinbouw certificate	€ 41,70

*When sampling is carried out by an inspector, the sampling costs are calculated by our Inspections department*



## Identity & Quality

The identity and quality of propagating material is important. Naktuinbouw can assess the identity and quality of your material.

Do you doubt the identity of a variety? Do you suspect admixture in a lot? Or is your material showing symptoms and do you want to know what it is?

Naktuinbouw can help you find an answer to these questions. We can also make tree nursery crops virus-free, and provide quality and purity determinations for seeds of flowers, trees, vegetables, fruits and herbs.

## Arboriculture Crops and Fruits

### Bio assays and making crops free from viruses

Arboricultural crops (including apples, pears, small fruit, strawberries and roses) are made free from viruses by means of various treatments, including heat treatment, at the Naktuinbouw Test Centre in Horst. The tops of treated plants are grafted onto virus-free rootstock or propagated from cuttings. Subsequent laboratory analyses, liquid inoculations using test plants and grafting onto woody indicators is applied to confirm the virus-free status of the grafted tops.

### Composition of the test fee

Naktuinbouw charges a base fee for handling costs in addition to the test rate as indicated below.

In addition, a base rate per entry per crop is charged for the purpose of administrative processing.

**Base rate: € 64,00**

Tests	Sample size	Test rate (ex. base rate)
Virus test on two herbaceous host, both in duplicate	min. 2 g. leaves	€ 257,00
Each following test plant, per single plant	min. 2 g. leaves	€ 57,00
Virus test on two herbaceous host Saponaria, both in duplicate	min. 2 g. leaves	€ 179,00
Virus test candidate plants fruit crops on herbaceous host, Chenopodium quinoa (4 repetitions)		€ 257,00
Virus test candidate plants fruit crops on herbaceous host, Nicotiana occidentalis 37B (4 repetitions)		€ 257,00
Virus test candidate plants fruit crops on herbaceous host, Cucumis sativus (4 repetitions)		€ 257,00
Virus test candidate plants fruit crops on herbaceous host, Chenopodium quinoa en Nicotiana occ. 37B (2 repetitions)		€ 257,00
Virus test on Rubus occidentalis (maintenance prebasic)		€ 271,00
Virus test on Rubus occidentalis (candidate plants)		€ 426,00
Virus test on Rubus Baumforth Seedling (candidate plants)		€ 426,00
Virus test on Rubus Norfolk Giant (candidate plants)		€ 426,00
Combination Apple viruses PCR test (ApMV – ACLSV - ASGV - ASPV)		€ 70,00
Virus test on woody indicator plants (in the greenhouse per indicator, per specimen)		€ 426,00
Virus test on woody indicator plants (in the field per indicator, per specimen)		€ 187,00
Virus test of strawberry by leaf grafting on Fragaria UC5 (maintenance prebasic)		€ 134,00
Virus test of strawberry by leaf grafting on Fragaria UC5 (candidate plants)		€ 257,00
Virus test of strawberry by leaf grafting on Fragaria UC12 (candidate plants)		€ 257,00
Combination of strawberry viruses PCR test (SCV – SVBV – SMoV – SMYEV)		€ 70,00

<b>Rendering free of viruses; Making woody plants virus-free (per variety)</b>	
Including testing program, heat treatment if necessary, excluding identity determination	Rate per year
Strawberry	€ 4.800,00
<b>Soft fruits (maximum 2 years)</b>	
Ribes	€ 4.010,00
Rubus	€ 4.010,00
Vaccinium	€ 2.730,00

<b>Rendering free of viruses; Making woody plants virus-free (per variety)</b>	
<b>Malus, Pyrus (maximum 5 years)</b>	<b>Rate per year</b>
year 1 (pre-testing, heat treatment)	€ 3.450,00
year 2 (testing treated material)	€ 6.140,00
year 3 up to year 5 (maintaining treated material; fee per year)	€ 830,00
<b>Prunus (maximum 4 years)</b>	<b>Tarief per jaar</b>
year 1 (pre-testing, heat treatment)	€ 2.950,00
year 2 (testing treated material)	€ 5.030,00
year 3 and year 4 (maintaining treated material; fee per year)	€ 830,00
Other woody plants	upon request
Extra heat treatment	€ 1.160,00

**Per order of woody plants and strawberry, 3 fully tested plants will be delivered.**

<b>Health certificate import for (EU) 2019/829</b>	<b>Rate</b>
Actinidia	€ 1.389,66
Fragaria	€ 4.791,20
Malus, Pyrus, Cydonia	€ 1.425,70
Prunus	€ 2.883,20
Rubus, Ribes	€ 3.998,32
Vaccinium	€ 2.722,08

<b>Special services</b>	<b>Rate</b>
Preparing material for the request for Plant Breeders' Rights	upon request
DNA fingerprinting strawberry or raspberry variety	upon request



## Diagnostics

Diagnostics brings the practice of horticulture, the diagnosticians and the researchers of Naktuinbouw Laboratories together. Annually about 250 different crops from numerous countries are studied. The wide experience makes Diagnostics a good partner for reliable diagnoses of diseases, pests and cultivation problems. Please note that our Diagnostics team only performs tests on material with symptoms.

### Composition of the test fee

Our Diagnostics Team works with a fixed rate. Assignments are immediately processed. The fees below are including the urgency rate. Our Diagnostic Laboratory can handle virus tests for limited-scope diagnosis such as TSWV, INSV and PepMV rather quickly and the applicant can have the test result usually within one day. If necessary, found organisms can be further identified with the help of molecular techniques.

### Fees for diagnosis

	Method	Test rate
Standard diagnosis, first sample	Depending on disease	€ 303,00
Each additional sample		€ 141,00
Limited diagnosis, first sample	Visual or other limited research	€ 237,00
Each additional sample		€ 141,00
Testing for up to 5 viruses, first sample	ELISA	€ 162,00
Each additional sample	ELISA	€ 75,00
Testing for up to 10 viruses, first sample	ELISA	€ 194,00
Each additional sample	ELISA	€ 102,00
PCR testing per sample <sup>1</sup>	PCR	€ 135,00
Sequentie analyse (such as Minion)	Sequencing	€ 550,00
Fee per hour for additional work (if needed)		€ 177,00

	Method	Basic test	Agglutination <sup>1</sup>	Confirmation PCR <sup>1</sup>
<i>Erwinia amylovora</i>	Culture method	€ 210,00	€ 59,00	€ 78,00
<i>Phytophthora fragariae</i>	Visual determination	€ 187,00		€ 133,00
<i>Xanthomonas arboricola</i> pv. <i>pruni</i>	Culture method	€ 230,00		€ 133,00
<i>Xanthomonas fragariae</i>	Culture method	€ 173,00		€ 133,00

- \* The fee for any succeeding additional sample only applies to samples of the same assignment and same crop.
- \* If an assignment is clearly so extensive that additional costs must be incurred it cannot possibly be done for these fees, we will contact you in advance.
- \* If a submission contains many samples, it may be chosen to work according to an hourly rate. This may also be chosen in the case of non-standard tests or combinations of tests. In these cases we will contact you in advance.
- \* Extra costs for additional services provided, such as sampling or transport, will be charged invoiced.

<sup>1</sup> An extra PCR test is carried out when final identification of a pathogen is needed.

## Seed Quality Analysis

The Seed Analysis Laboratory carries out various tests to assess the quality of seed of flowers, trees, vegetables and herbs. Tests for germination, purity and moisture content or for tetrazolium and weeds are carried out under ISTA accreditation. In addition, the more practice-related Usable Plants Test can be performed. This can be applied to crops such as tomato, sweet pepper, cucumber-like crops, lettuce and cabbage.

### Lead time

The lead times are not stated here, because they are crop-dependent. The waiting time till start of the test will be maximal 3 weeks. In exceptional cases (e.g. large demand of tests) it might deviate.

Seed Quality Analysis				
Type of test	Type of certificate	Sample size	Test code	Test rate (ex. base rate page 6)
Thousand seed weight (This determination is performed on pure seed)	ISTA certificate / Naktuinbouw certificate	800 seeds	DKG 008	€ 34,20
	Naktuinbouw certificate	400 seeds	DKG 004	€ 24,30
		300 seeds	DKG 003	€ 20,90
		200 seeds	DKG 002	€ 17,30
Germination test	ISTA certificate / Naktuinbouw certificate	400 seeds	KK004	€ 77,50
	Naktuinbouw certificate	300 seeds	KK003	€ 67,50
		200 seeds	KK002	€ 59,00
		100 seeds	KK001	€ 51,00
Germination on weight	Naktuinbouw certificate	Betula 1 gram	KK/GEW BEP	€ 142,00
Tetrazolium test (excluding tree and palm seeds)	ISTA certificate / Naktuinbouw certificate	400 seeds	TET004	€ 306,00
	Naktuinbouw certificate	200 seeds	TET002	€ 252,00
		100 seeds	TET001	€ 144,00
Tetrazolium test (tree and palm seeds)	ISTA certificate / Naktuinbouw certificate	400 seeds	TETB004	€ 520,00
	Naktuinbouw certificate	200 seeds	TETB002	€ 458,00
		100 seeds	TETB001	€ 271,00
Usable Plant test	Naktuinbouw certificate	400 seeds	TBP004	€ 142,00
		300 seeds	TBP003	€ 133,00
		200 seeds	TBP002	€ 124,00
		100 seeds	TBP001	€ 115,00
Moisture determination	ISTA certificate / Naktuinbouw certificate	50 or 100 gram	VOC	€ 30,90
	Naktuinbouw certificate	25 gram	VOC	€ 30,90



<b>Seed Quality Analysis</b>				
Type of test	Type of certificate	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Vigour tests</b>				
Accelerated Aging Test	Naktuinbouw certificate			Upon request
Cold test (maize)	Naktuinbouw certificate	400 seeds	VIG004	€ 77,50
		300 seeds	VIG003	€ 67,50
		200 seeds	VIG002	€ 59,00
Conductancy test beans or peas (excl. moisture determination)	Naktuinbouw certificate	200 seeds	VIG EC 002	€ 29,90
Root length determination (spinach)	Naktuinbouw certificate	200 seeds	VIG W/H RATIO 002	€ 76,00
Root respiration (beetroot and corn)	Naktuinbouw certificate	400 seeds	KK004	€ 77,50
		300 seeds	VIG WU 003	€ 67,50
		200 seeds	VIG WU 002 SB	€ 59,00
<b>Purity tests</b>				
Determining the presence of other seeds	ISTA certificate / Naktuinbouw certificate	25,000 seeds maximal 1 kilo	OB 250 OROB	€ 223,00
Determining the presence of broken, discoloured etc. seeds ('piksel')	ISTA certificate / Naktuinbouw certificate		PB	€ 35,70
Seed determination	ISTA certificate / Naktuinbouw certificate			Upon request
Purity test	ISTA certificate / Naktuinbouw certificate	2,500 seeds	ZB	€ 61,50
Purity test and determination of other seeds export Australia	ISTA certificate / Naktuinbouw certificate	25,000 seeds	OB ZB AUSTRALIE	€ 266,00
<b>Various</b>				
Determining dry matter of onion/carrot	Naktuinbouw certificate	10 bulbs/roots	DSB	€ 34,20
Determining the kind of starch for pea	Naktuinbouw certificate	5 seeds	ZB	€ 61,50
Determining 'single seeds rate' of beet seeds	Naktuinbouw certificate	400 seeds	MON	€ 63,50
Determining the presence of beetles in seed lots	Naktuinbouw certificate		KEV	€ 35,70
Determining the presence of Rhizomanie	Naktuinbouw certificate	500 gram seeds	RHI	€ 35,10
Determining the presence of Sclerotinia	Naktuinbouw certificate	25,000 seeds	SCL250	€ 67,50
Determining the presence of Urocystis cepulae	Naktuinbouw certificate	25,000 seeds	URO	€ 67,00
Fractioning test	Naktuinbouw certificate			Upon request

## Variety Identification

### Identity testing

Naktuinbouw has laboratory techniques to determine the identity of your material. This may be important and useful where material has been mixed, mistakenly replaced, origin tracing (pathogens), when the matter is urgent and/or when morphological research is not possible.

Identity testing is carried out by using DNA fingerprint techniques. A typical research project includes sampling, DNA isolation, fingerprinting, analysis, determination of the genetic relations, statistical analysis and reporting.

It is important for identity testing that the commissioning party provides the samples as well as adequate reference samples. If samples need to be compared to a Naktuinbouw database with varieties from a third party, Naktuinbouw has to and will ask for permission from said parties before a report can be issued.

For the crops; Strawberry, Phalaenopsis, Apple, Potato and Rose Naktuinbouw features a SSR-Database. For these varieties it is possible to do an identification project per sample.

### Rates for SSR identification

Number of samples	Rate per sample (ex. base rate page 6)
1-4 samples	€ 342,00
5-8 samples	€ 315,00
9-16 samples	€ 284,00
More than 16 samples	Upon request

### Fee for standard AFLP projects

Sample selection for AFLP projects are the responsibility of the commissioning party. If Naktuinbouw feels that the selection of reference varieties and/or the number of primer combinations are inadequate, no report will be issued until further testing. Unless the commissioning party is requesting a specific set of primer combinations for testing and analyses, it is up to Naktuinbouw to choose the primer combinations which will be tested.

Number of samples	Rate per sample (ex. base rate page 6)
1-16 samples with 4 primer combinations	Upon request
For other amounts of samples (17-32 or 33-64) and/or other amounts of primer combinations	Upon request

### Variety Tracer

Naktuinbouw developed a concept to help with settling the allegations of infringement of Plant Breeders' Rights and patents: Naktuinbouw Variety Tracer®. It can provide evidence in cases of alleged infringement of plant breeders' rights, it allows to determine the identity of varieties and it can confirm suspicion of repeated cropping. Naktuinbouw Variety Tracer combines knowledge, independence and the possibility of morphological research with the possibilities of DNA fingerprint techniques. It is the combination of – and synergy between – these elements that guarantees extremely sound analyses and provides important evidence for possible court cases.

### Molecular identification of Cmm / Xcc isolates.

The molecular analysis of isolates of plant pathogenic bacteria will give insight in the genetic similarity. This will be done by comparing the DNA profiles from the supplied samples amongst each other and to profiles stored in the database. The results of the analysis can give insight into the relationship between the occurrences of different isolates. The analysis will be performed on a single colony culture. These can be supplied by you, accompanied with a laboratory submission form. A combination with a diagnostic test is also possible if bacteria are found in symptomatic material. A single colony culture will be made on which the molecular analysis and comparison will be performed. The results will be provided in a report including a dendrogram.

## Phytopathology

Naktuinbouw can test the quality of seed and plant material for the presence of fungi, viruses and viroids, bacteria, phytoplasmas and nematodes. These tests give you certainty as to the quality of your propagating material.

### Testing for bacteria

Seed and plant material can be tested for the presence of bacterial diseases. Methods that are used are e.g., plating, pathogenicity tests and PCR.

### Testing for fungi

Testing for fungi is usually done by a plating method, combined with identification by microscope. New DNA techniques are used for sensitive detection of e.g. Fusarium species. Testing for fungi can also be done on soil samples, e.g. for *Verticillium dahliae* and *Fusarium oxysporum* f.sp. *asparagi*.

### Testing for Nematodes

Nematodes can seriously harm crops. Preventative testing of the soil, seeds and plant material can prevent this. Naktuinbouw offers testing for various plant-parasitic nematodes which may harm your crops. For example, the presence of *Xiphinema* and *Longidorus* species in soil may be demonstrated as part of the Elite certification procedure for strawberries.

A plant passport is required for trade in onion sets (seed) for stem nematode (*Ditylenchus dipsaci*). A seed test is an option to meet plant passport requirements.

Some other crops also require a statement that they are free from nematode when exported to certain destinations. Naktuinbouw can help you with this. If you would like further information, please contact the Laboratories Administration Team.

### Virus tests, viroids and phytoplasmas

Plant material can be tested for the presence of viruses, viroids or phytoplasmas, using the latest new molecular techniques. A quick test is available for some about 70 viruses in floricultural and arboricultural crops: the ELISA and PCR. These techniques can be used routinely and gives quick results. Testing with indicator plants or PCR is also possible. These tests are only carried out on leaf material. Tissue culture plants show a reduced sensitivity in the ELISA.

### Lead time

The mentioned test time is the time between start of the test till sending of the certificate. The waiting time till start of the test will be maximal 2 weeks for leaves and 3 weeks for seeds. In exceptional cases (e.g. large demand of tests) it might deviate.

## Overview tests

Plant material of floricultural and arboricultural crops can be tested for many viruses, bacteria, fungi and nematodes. All tests that Naktuinbouw can perform on plant material are listed below. Further on in the price list we indicate per family and species which tests are possible on seeds and which tests we recommend for planting material.

<b>Bacteria Plant material &amp; Water</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Agrobacterium tumefaciens</i>	Culture method, incl. possible confirmation PCR	7	0,5 liter water	ATUMP	€ 127,00
	PCR	4	Max. 5 stem parts	ATUMQ	€ 57,00
<i>Erwinia amylovora</i> (latent)	Culture method, incl. possible confirmation PCR and agglutination	11	100 twigs	ERAMYS000	€ 124,00
<i>Erwinia chrysanthemi</i>					Upon request
<i>Erwinia pyrifoliae</i>	PCR	4	Max. 30 leaves	EPQ000	€ 151,00
<i>Ralstonia solanacearum</i>	Culture method, incl. possible confirmation PCR	12	0,5 liter water	RSOLA	€ 61,00
	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	RSQ	€ 86,00
			11-200 stem parts	RSQ000	€ 100,00
<i>Ralstonia solanacearum</i> confirmation by NPPO	External				€ 164,00
<i>Rhodococcus fascians</i>	PCR	4	Max. 10 stem parts	RFASQ	€ 57,00
<i>Xanthomonas axonopodis</i> pv. <i>dieffenbachiae</i>	PCR	4	Max. 5 leaves+leaf stems	XADIEQ	€ 57,00
			Max. 25 leaves+leaf stems	XADIEQ000	€ 85,50
<i>Xylella fastidiosa</i>	PCR	4	100 to 200 leaves or twigs	XYLEFAQ000	€ 215,00
<i>Xylella fastidiosa</i> confirmation by NPPO	External				€ 164,00
<b>Combination tests:</b>					
<i>Agrobacterium tumefaciens</i> and <i>Rhodococcus fascians</i>	PCR	4	Max. 5 stem parts	COMBIAFQ	€ 70,00
<i>Dickeya</i> spp. and <i>Pectobacterium</i> spp.	PCR	4	1-10 stem parts	COMBIDPQ	€ 70,00
<i>Erwinia pyrifoliae</i> and <i>Xanthomonas fragariae</i>	PCR	4	Max. 30 leaves	COMBIXEQ000	€ 163,00
<b>Fungi Plant material</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Fusarium oxysporum</i>	Culture method, incl. possible microscopic confirmation	10	1-6 stemparts	FOA	€ 75,00
			7-50 stemparts	FOA000	€ 122,00
<i>Phytophthora ramorum</i>	PCR	4	Max. 20 leaves	PRQ000	€ 57,00
<i>Verticillium dahliae</i>	Culture method	14	Max. 5 stem parts	VDA000	€ 71,00
<i>Verticillium</i> species	Culture method	15	5 stem parts	VSA000	€ 71,00
<b>Combination tests:</b>					
<i>Phytophthora ramorum</i> and <i>Phytophthora kernoviae</i>	PCR	4	Max. 20 leaves	COMBIPRKQ000	€ 70,00
<i>Verticillium dahliae</i> en <i>Verticillium albo-atrum</i>	PCR	4	1-10 stem parts	COMBIVVQ	€ 162,25
<i>Neopestalotiopsis</i> and <i>Phytophthora cactorum</i>	PCR	4	1-10 stem parts	COMBINPQ	€ 163,00
<i>Colletotrichum acutatum</i> , <i>Neopestalotiopsis</i> and <i>Phytophthora cactorum</i>	PCR	4	1-10 stem parts	COMBICNPQ	€ 176,00
<i>Colletotrichum acutatum</i> , <i>Neopestalotiopsis</i> spp., <i>Phytophthora cactorum</i> , <i>Verticillium albo-atrum</i> s.l. and <i>Verticillium dahliae</i>	PCR	4	1-10 stem parts	COMBICNPVVQ	€ 205,00

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NEW Sept. 2024

NEW July 2024

NEW July 2024

Fungi Soil					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Verticillium dahliae</i>	Culture method	25	2 - 2,5 liter soil	VDAHLA000	€ 155,00

Nematodes Plant material & Water						
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)	
<i>Aphelenchoides</i> spp.	Mist method	5	25 gram	APHEM	€ 59,50	
<i>Aphelenchoides besseyi</i>	Mist method	5	25 gram	APHE-BEM	€ 52,00	
<i>Aphelenchoides fragariae</i>	Mist method	5	25 gram	APHE-FRM	€ 52,00	
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	25 gram	APHE-RIM	€ 52,00	
<i>Aphelenchoides subtenuis</i>	Mist method	5	25 gram	APHE-SUM	€ 52,00	
<i>Ditylenchus</i> spp.	Mist method	5	25 gram	DITYM	€ 52,00	
<i>Ditylenchus destructor</i>	Mist method	5	25 gram	DITY-DEM	€ 52,00	
			60 bulbs garlic	DITY-DEM060K	€ 52,00	
			200 gloves garlic	DITY-DEM200K	€ 52,00	
<i>Ditylenchus dipsaci</i>	Mist method	5	25 gram	DITY-DIM	€ 52,00	
			3	60 bulbs onion	DITY-DIM060U	€ 52,00
			3	60 bulbs garlic	DITY-DIM060K	€ 52,00
			3	200 gloves garlic	DITY-DIM200K	€ 52,00
			3	400 bulbs onion sets	DITY-DIM400P	€ 52,00
<i>Meloidogyne</i> spp.	Mist method	5	25 gram	MELOM	€ 55,00	
Verification <i>Meloidogyne</i> spp. by NPPO	External				€ 164,00	
<i>Meloidogyne chitwoodi</i>	Mist Method	5	25 gram	MELO-CHM	€ 52,00	
	Mist method and incubation	19	25 gram	MELO-CHMINC	€ 116,00	
<i>Meloidogyne fallax</i>	Mist method	5	25 gram	MELO-FAM	€ 52,00	
	Mist method and incubation	19	25 gram	MELO-FAMINC	€ 116,00	
<i>Meloidogyne hapla</i>	Mist method	5	25 gram	MELO-HAM	€ 52,00	
	Mist method and incubation	19	25 gram	MELO-HAMINC	€ 116,00	
<i>Meloidogyne naasi</i>	Mist method	5	25 gram	MELO-NAM	€ 52,00	
	Mist method and incubation	19	25 gram	MELO-NAMINC	€ 116,00	
<i>Meloidogyne minor</i>	Mist method	5	25 gram	MELO-MIM	€ 52,00	
	Mist method and incubation	19	25 gram	MELO-MIMINC	€ 116,00	
<i>Pratylenchus</i> spp.	Mist method	5	25 gram	PRATM	€ 68,00	
Verification <i>Pratylenchus</i> spp. by NPPO	External				€ 164,00	
<i>Pratylenchus crenatus</i>	Mist method	5	25 gram	PRAT-CRM	€ 52,00	
<i>Pratylenchus fallax</i>	Mist method	5	25 gram	PRAT-FAM	€ 52,00	
<i>Pratylenchus neglectus</i>	Mist method	5	25 gram	PRAT-NEM	€ 52,00	
<i>Pratylenchus penetrans</i>	Mist method	5	25 gram	PRAT-PEM	€ 52,00	
<i>Pratylenchus vulnus</i>	Mist method	5	25 gram	PRAT-VUM	€ 52,00	
<i>Radopholus</i> spp.	Centrifuge method	5	10 gram	RADOC	€ 77,50	
<i>Radopholus similis</i>	Centrifuge method	5	10 gram	RADO-SIC	€ 77,50	
			60 gram	RADO-SIC060	€ 233,00	
	Oostenbrink		50 ml water	RADO-SIO000W	€ 77,50	



Nematodes Plant material & Water (Continued)					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
<i>Aphelenchoides besseyi</i> and <i>Aphelenchoides fragariae</i>	Mist Method	5	25 gram	COMBIAFABM	€ 52,00
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	5	25 gram	COMBIADM	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist method	5	60 bulbs garlic	COMBIDDD060K	€ 52,00
			200 gloves garlic	COMBIDDD200K	€ 52,00
<i>Meloidogyne chitwoodii</i> and <i>M. fallax</i>	Mist Method	5	25 gram	COMBIMMM	€ 52,00
Plant parasitic nematods - <i>Ditylenchus</i> spp. - <i>Helicotylenchus</i> spp. - <i>Hemicycliophora</i> spp. - <i>Heterodera</i> spp. - <i>Longidorus</i> spp. - <i>Meloidogyne</i> spp. - <i>Paratrichodorus</i> spp. - <i>Paratylenchus</i> spp. - <i>Pratylenchus</i> spp. - <i>Radopholus</i> spp. - <i>Rotylenchus</i> spp. - <i>Trichodorus</i> spp. - <i>Tylenchorynchus</i> spp. - <i>Xiphinema</i> spp.	Mist Method	5	25 gram	COMBINEMAPLANT	€ 149,00

Nematodes Soil					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Ditylenchus</i> spp.	Oostenbrink	4	1,5 liter	DITYO000	€ 93,50
<i>Ditylenchus dipsaci</i>	Oostenbrink	4	1,5 liter	DITY-DIO000	€ 93,50
<i>Meloidogyne chitwoodii</i>	Oostenbrink	4	200 ml	MELO-CHO000	€ 93,50
	Oostenbrink and incubation	18	200 ml	MELO-CHO000INC	€ 158,00
<i>Meloidogyne fallax</i>	Oostenbrink	4	200 ml	MELO-FAO000	€ 93,50
	Oostenbrink and incubation	18	200 ml	MELO-FAO000INC	€ 158,00
<i>Meloidogyne hapla</i>	Oostenbrink	4	200 ml	MELO-HAO000	€ 93,50
	Oostenbrink and incubation	18	200 ml	MELO-HAO000INC	€ 158,00
<i>Meloidogyne naasi</i>	Oostenbrink	4	200 ml	MELO-NAO000	€ 93,50
	Oostenbrink and incubation	18	200 ml	MELO-NAO000INC	€ 158,00
<i>Meloidogyne minor</i>	Oostenbrink	4	200 ml	MELO-MIO000	€ 93,50
	Oostenbrink and incubation	18	200 ml	MELO-MIO000INC	€ 158,00
<i>Pratylenchus</i> spp.	Oostenbrink	4	200 ml	PRATO000	€ 93,50
Verification <i>Pratylenchus</i> spp. by NPPO	External				€ 164,00
<i>Pratylenchus crenatus</i>	Oostenbrink	4	200 ml	PRAT-CRO000	€ 93,50
<i>Pratylenchus fallax</i>	Oostenbrink	4	200 ml	PRAT-FAO000	€ 93,50





<b>Nematodes Soil (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pratylenchus neglectus</i>	Oostenbrink	4	200 ml	PRAT-NEO000	€ 93,50
<i>Pratylenchus penetrans</i>	Oostenbrink	4	200 ml	PRAT-PEO000	€ 93,50
<i>Pratylenchus vulnus</i>	Oostenbrink	4	200 ml	PRAT-VUO000	€ 93,50
<i>Radopholus</i> spp.	Oostenbrink	4	200 ml	RADOO000	€ 77,50
			300 ml	RADOO300	€ 77,50
<b>Combination tests:</b>					
<i>Meloidogyne chitwoodii</i> and <i>M. fallax</i>	Oostenbrink	4	200 ml	COMBIMMO000	€ 93,50
<i>Longidorus</i> and <i>Xyphinema</i>	Oostenbrink	4	200 ml	COMBIXLO000	€ 61,50
Plant parasitic nematods - Ditylenchus spp. - Helicotylenchus spp. - Hemicycliohora spp. - Heterodera spp. - Longidorus spp. - Meloidogyne spp. - Paratrichodorus spp. - Paratylenchus spp. - Pratylenchus spp. - Radopholus spp. - Rotylenchus spp. - Trichodorus spp. - Tylenchorynchus spp. - Xiphinema spp.	Oostenbrink	4	200 ml	COMBINEMAGROND	€ 164,00

<b>Virus Plant material</b>	
You can test for the viruses below. If a virus has a changed name, the old name is stated behind in brackets <sup>3</sup> .	
AICV (LSV), AIMV, AltMV, AMV, AnFBV (AFMoV), ArMV, BBWV 1&2, BWYV, BYMV, CarMV, CbMV, CERV, CLV, CMV, CNFV, CRSV, CSNV, CVB, CVMV, CymMV, EMDV, ErLV, HdRSV, HVX, INSV, IYSV, KLV, KMV, ORSV, PEBV, PepMV, PFBV, PLPV, PMMoV, PnMV, PNRSV, Potyvirus <sup>4</sup> , PVX, PVY, RMV, ScrMV, SFBV, SLRSV, SYNV, TAV, TBRV, TBSV, TMGMV, TMV-WU1, TNV1, TNV2, ToMV-DO3, ToRSV, TRSV, TRV, TSV, TSWV, TYMV	
Test time ELISA tests:	4 days
Waiting time ELISA tests:	maximal 2 weeks. In exceptional cases (e.g. large demand of tests) it might deviate.
Fee (ex. base rate page 2) per ELISA determination:	€ 4,40
Sample size:	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>
<sup>3</sup> Some virus tests can also detect other viruses in ELISA:	
<b>Virus test</b>	<b>Also detects</b>
RMV	TVCV, YoMV
ScrMV	NeRNV
TBSV	PLCV, PetAMV
TYMV	WWWV
<sup>4</sup> If you provide material for testing on Potyvirus, please send a separate sample. We cannot combine this with other ELISA virus tests.	



<b>Virus Plant material (Continued)</b>					
<b>Pathogen</b>	<b>Method</b>	<b>Lead time (more info on page 13)</b>	<b>Sample size</b>	<b>Test code</b>	<b>Test rate (ex. base rate page 6)</b>
Alfalfa mosaic virus (AMV)	PCR	4	Max. 25 leaves	AMVQ	€ 57,00
Apple chlorotic leaf spot virus (ACLSV)	PCR	4	Max.10 stem parts of 25 leaves	ACLSVQ	€ 57,00
Apple mosaic virus (ApMV)	PCR	4	Max.10 stem parts of 25 leaves	APMVQ	€ 57,00
Apple proliferation phytoplasma group	PCR	4	Max. 12 root parts	MLOQ	€ 57,00
Arabis mosaic virus (ArMV)	PCR	4	Max. 25 leaves	ARMVQ	€ 57,00
Asparagus virus 1 (AV1)	ELISA	4	10 x 10 leaves	AV1E000	€ 32,30
Bacopa chlorosis virus (BaCV)	PCR	4	Max. 25 leaves	BACVQ	€ 57,00
Broad bean wilt virus (BBWV1,2)	PCR	4	Max. 25 leaves	BBWVQ	€ 57,00
Cherry leaf roll virus (CLRV)	PCR	4	Max. 25 leaves	CLRVQ	€ 57,00
Chrysanthemum chlorotic mottle viroïde (CChMVd)	PCR	4	Max. 25 leaves	CCHMVDP	€ 57,00
Chrysanthemum stunt viroid (CSVd)	PCR	4	Max. 25 leaves	CSVDP	€ 57,00
Cucumber mosaic virus (CMV)	PCR	4	Max. 25 leaves	CMVQ	€ 57,00
Dahlia mosaic virus species complex (DMV / DCMV)	PCR	4	Max. 25 leaves	DMVQ	€ 57,00
Hosta virus X (HVX)	PCR	4	Max. 25 leaves	HVXQ	€ 57,00
Impatiens necrotic spot virus (INSV)	PCR	4	Max. 25 leaves	INSVQ	€ 57,00
Nerine virus X (NVX)	PCR	4	Max. 25 leaves	NVXQ	€ 57,00
Orchid fleck virus (OFV)	PCR	4	Max. 25 leaves	OFVP	€ 57,00
Phytoplasma, for material without symptoms	PCR	4	Max. 5 stem parts, root parts or leaf vein	FYTOQ000	€ 57,00
Plum pox virus (PPV)	PCR	4	Max. 25 leaves/stem parts	PPVP	€ 57,00
Pospiviroids (CEVd, CLVd, CSVd, IrVd1, PCFVd, PoIVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation	4	Max. 25 leaves	POSPIP	€ 73,50
	PCR		Max. 200 leaves	POSPIQSCR	€ 102,00
Prune dwarf virus (PDV)	PCR	4	Max. 25 leaves	PDVQ	€ 57,00
Prunus necrotic ringspot virus (PNRSV)	PCR	4	Max. 25 leaves	PNRSVQ	€ 57,00
PSTVd, TCDVd, TPMVd	PCR	4	Max. 25 leaves	PSTVD	€ 57,00
Raspberry ringspot virus (RpRSV)	PCR	4	Max. 25 leaves	RPRSVQ	€ 57,00
Tobacco rattle virus (TRV)	PCR	4	Max. 25 leaves	TRVQ	€ 57,00
Tobacco ringspot virus (TRSV)	PCR	4	Max. 25 leaves	TRSVQ	€ 57,00
Tobacco ringspot virus (TRSV) confirmation by NPPO	External				€ 164,00
Tobacco streak virus (TSV)	PCR	4	Max. 25 leaves	TSVQ	€ 57,00
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR	4	Max. 25 leaves	TBRVQ	€ 57,00
Tomato ringspot virus (ToRSV)	PCR	4	Max. 25 leaves	TORSVQ	€ 57,00
Tomato ringspot virus (ToRSV) confirmation by NPPO	External				€ 164,00
Tomato spotted wilt virus (TSWV)	PCR	4	Max. 25 leaves	TSWVQ	€ 57,00
Verbena latent virus (VeLV)	PCR	4	Max. 25 leaves	VELVQ	€ 57,00
<b>Combination tests:</b>					
<b>2 viruses</b>					
<b>NEW Aug. 2024</b> Alfalfa mosaic virus (AMV) and Cucumber mosaic virus (CMV)	PCR	4	Max. 25 leaves	COMBIACQ	€ 70,00
Chrysanthemum chlorotic mottle viroïde (CChMVd) and Chrysanthemum stunt viroid (CSVd)	PCR	4	Max. 25 leaves	COMBICSVDCCHMVD	€ 57,00
Cucumber mosaic virus (CMV) and Tobacco rattle virus (TRV)	PCR	4	Max. 25 leaves	COMBITTQ	€ 70,00
Cymbidium mosaic virus (CymMV) and Odontoglossum ringspot virus (ORSV)	PCR	4	Max. 25 leaves	COMBICOQ	€ 57,00
Helleborus mosaic virus (HeMV) and Helleborus net necrosis virus (HeNNV)	PCR	4	Max. 25 leaves	COMBIHHQ	€ 57,00

<b>Virus Plant material (Continued)</b>					
<b>Pathogen</b>	<b>Method</b>	<b>Lead time (more info on page 13)</b>	<b>Sample size</b>	<b>Test code</b>	<b>Test rate (ex. base rate page 6)</b>
<b>Combination tests: (continued)</b>					
Prunus necrotic ringspot virus (PNRSV) and Prune dwarf virus (PDV)	PCR	4	Max. 25 leaves	COMBIPPQ	€ 57,00
Tobacco ringspot virus (TRSV) and Tomato ringspot virus (ToRSV)	PCR	4	Max. 25 leaves	COMBICTQ	€ 70,00
<b>NEW Mar. 2024</b> Tomato ringspot virus (ToRSV) and Tomato spotted wilt virus (TSWV)	PCR	4	Max. 25 leaves	COMBITOTSQ	€ 70,00
<b>3 viruses</b>					
Arabis mosaic virus (ArMV), Freesia mosaicc virus (FreMV) and Tobacco rattle virus (TRV)	PCR	4	Max. 25 leaves	COMBIAFTQ	€ 82,50
Cymbidium mosaic virus (CymMV), Impatiens necrotic spot virus (INSV) and Odontoglossum ringspot virus (ORSV)	PCR	4	Max. 25 leaves	COMBICIOQ	€ 70,00
Cymbidium mosaic virus (CymMV), Odontoglossum ringspot virus (ORSV) and Orchid fleck virus (OFV)	PCR	4	Max. 25 leaves	COMBICOOQ	€ 70,00
Prunus necrotic ringspot virus (PNRSV), Prune dwarf virus (PDV) and Plum pox virus (PPV)	PCR	4	Max. 25 leaves	COMBIPPPQ	€ 70,00
<b>4 viruses</b>					
Apple virusses (ApMV, ACLSV, ASGV and ASPV)	PCR	4	Max. 10 stem parts or 25 leaves	COMBI APPEL PCR	€ 70,00
<b>NEW July 2024</b> Arabis mosaic virus (ArMV), Broad bean wilt virus (BBWV1,2), Freesia mosaicc virus (FreMV) and Tobacco rattle virus (TRV)	PCR	4	Max. 25 leaves	COMBIABFTQ	€ 96,00
Cymbidium mosaic virus (CymMV), Odontoglossum ringspot virus (ORSV), Orchid fleck virus (OFV) and Tomato ringspot virus (ToRSV)	PCR	4	Max. 25 leaves	COMBICOOTQ	€ 82,50
Freesia virusses FreMV, FreSV, BYMV and FreV1	PCR	4	Max. 50 leaves	COMBIFFBFQ	€ 57,00
			Max. 75 - 150 leaves	COMBIFFBFQ000	€ 171,00
<b>NEW Aug. 2024</b> Impatiens necrotic spot virus (INSV), Tobacco rattle virus (TRV), Tobacco ringspot virus (TRSV) and Tomato spotted wilt virus (TSWV)	PCR	4	Max. 25 leaves	COMBIITTTQ	€ 96,00
Strawberry crinkle virus (SCV), Strawberry mottle virus (SMoV), Strawberry mild yellow edge virus (SMYEV) and trawberry vein banding virus (SVBV)	PCR	4	Max. 10 leaves	COMBI AARDBEI PCR	€ 70,00
<b>5 viruses</b>					
Arabis mosaic virus (ArMV), Strawberry crinkle virus (SCV), Strawberry mottle virus (SMoV), Strawberry mild yellow edge virus (SMYEV) and trawberry vein banding virus (SVBV)	PCR	4	Max. 10 leaves	COMBISSSSAQ	€ 82,50
<b>6 viruses</b>					
<b>NEW July 2024</b> Arabis mosaic virus (ArMV), Raspberry ringspot virus (RpRSV), Strawberry crinkle virus (SCV), Strawberry mottle virus (SMoV), Strawberry mild yellow edge virus (SMYEV) and trawberry vein banding virus (SVBV)	PCR	4	Max. 10 leaves	COMBIARSSSSQ	€ 96,00



## Tests by family and species

Most of our seed tests have been validated for specific crops. In this section we show per family and crop which tests Naktuinbouw has available for seeds. For plant material we list the tests we recommend per family and/or species. This is based on diseases that often are found or are a risk in these families.

### Acanthaceae

*Such as Crossandra, Otacanthus, Thunbergia*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AIMV, AMV, ArMV, BBWV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40

### Acoraceae

*Such as Acorus*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40

### Agapanthaceae

*Such as Agapanthus*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, EMDV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40
NVX	PCR	4	Max. 25 leaves	€ 57,00

### Aizoaceae

*Such as Aptenia, Delosperma, Lampranthus, Mesembryanthemum*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40

## Alstroemeriaceae

Such as *Alstroemeria*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AICV (LSV), AIMV, CMV, INSV, IYSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Amaranthaceae

Such as *Althernanthera*, *Celosia*, *Gomphrena*, *Iresine*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
Pospiviroids (CEVd, CLVd, CSVd, IrVd1, PCFVd, PoIVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves	€ 73,50
			Max. 200 leaves	€ 102,00

## Amaryllidaceae

*Allium cepa*, onion

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Xanthomonas axonopodis</i> pv. <i>allii</i>	SE-PCR	4	10,000 seeds	XAAQ100	€ 207,00

NEW Apr. 2024

Fungi					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Botrytis allii</i>	Culture method	16	400 seeds	BAA004	€ 293,00

## Nematodes

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00

*Allium cepa, onion (Continued)*

<b>Nematodes (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	PCR	4	3,000 seeds	ARMVQ030	€ 207,00
Onion yellow dwarf virus (OYDV)	ELISA	4	3,000 seeds	OYDVE030	€ 174,00
Tobacco rattle virus (TRV)	PCR	4	3,000 seeds	TRVQ030	€ 207,00
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TSVQ030	€ 207,00
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR	4	3,000 seeds	TBRVQ030	€ 207,00

NEW Aug. 2024

*Allium porrum, leek*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pseudomonas syringae</i> pv. <i>porri</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	PSPOA050	€ 231,00
<i>Xanthomonas axonopodis</i> pv. <i>allii</i>	SE-PCR	4	10,000 seeds	XAAQ100	€ 207,00

NEW Apr. 2024

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Alternaria porri</i>	Culture method	12	200 seeds	APF002	€ 127,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00



*Allium porrum, leek (Continued)*

<b>Nematodes (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

*Allium sativum, garlic*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Xanthomonas axonopodis</i> pv. <i>allii</i>	SE-PCR	4	10,000 seeds	XAAQ100	€ 207,00

NEW Apr. 2024

*Allium schoenoprasum, chives*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pseudomonas syringae</i> pv. <i>porri</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	PSPOA050	€ 231,00
<i>Xanthomonas axonopodis</i> pv. <i>allii</i>	SE-PCR	4	10,000 seeds	XAAQ100	€ 207,00

NEW Apr. 2024

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00



## Apiaceae

Such as *Astrantia*

### Virus

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, ToRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

### *Apium graveolens, celery*

### Bacteria

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Candidatus liberibacter solanacearum</i>	SE-PCR	4	10,000 seeds	CLSQ100	€ 207,00
			20,000 seeds	CLSQ200	€ 259,00
			30,000 seeds	CLSQ300	€ 259,00

### Fungi

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Phoma apiicola</i>	Culture method, incl. possible microscopic confirmation	45	1,000 seeds	PAF010	€ 309,00
<i>Septoria apiicola</i>	Culture method, incl. possible microscopic confirmation	9	200 seeds	SAF002	€ 127,00
			400 seeds	SAF004	€ 194,00
	Soaking	4	10,000 seeds	SAAF100	€ 77,50
			20,000 seeds	SAAF200	€ 155,00

### Nematodes

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00



**Apium graveolens, celery (Continued)**

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
NEW July 2024 Strawberry latent ringspot virus (SLRSV)	PCR	4	3,000 seeds	SLRSVQ030	€ 207,00

**Daucus carota, carrot**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Candidatus liberibacter solanacearum</i>	SE-PCR	4	10,000 seeds	CLSQ100	€ 207,00
			20,000 seeds	CLSQ200	€ 259,00
			30,000 seeds	CLSQ300	€ 259,00
<i>Xanthomonas hortorum</i> pv. <i>carotae</i>	Culture method, incl. possible confirmation PCR	17	10,000 seeds	XHCARA100	€ 266,00
			20,000 seeds	XHCARA200	€ 343,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Alternaria dauci</i>	Culture method	12	200 seeds	ALDF002	€ 127,00
<i>Alternaria radicina</i>	Culture method	12	200 seeds	ALRF002	€ 127,00
<i>Fusarium oxysporum</i>	Culture method, incl. possible microscopic confirmation	22	200 seeds	9-FOA002	€ 225,00
<i>Phoma</i> sp.	Culture method, incl. possible microscopic confirmation	18	200 seeds	9-PSF002	€ 141,00
<b>Combination tests:</b>					
<i>Alternaria dauci</i> and <i>Alternaria radicina</i>	Culture method	12	200 seeds	COMBIAAF002	€ 194,00
			400 seeds	COMBIAAF004	€ 258,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00



**Daucus carota, carrot (Continued)**

<b>Nematodes (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Foeniculum vulgare, fennel**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Candidatus liberibacter solanacearum</i>	SE-PCR	4	10,000 seeds	CLSQ100	€ 207,00
			20,000 seeds	CLSQ200	€ 259,00
			30,000 seeds	CLSQ300	€ 259,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Petroselinum crispum, parsley**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Candidatus liberibacter solanacearum</i>	SE-PCR	4	10,000 seeds	CLSQ100	€ 207,00
			20,000 seeds	CLSQ200	€ 259,00
			30,000 seeds	CLSQ300	€ 259,00



**Petroselinum crispum, parsley (Continued)**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Septoria petroselini</i>	Culture method, incl. possible microscopic confirmation	9	200 seeds	SPF002	€ 127,00
			400 seeds	SPF004	€ 194,00
	Soaking	4	10,000 seeds	SPAF100	€ 77,50

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Apocynaceae**

Such as *Catharanthus*, *Dipladenia*, *Mandevilla*, *Vinca*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate per virus or combi (ex. base rate page 6)
<i>Xylella fastidiosa</i>	PCR	4	100 tot 200 leaves or twigs	XYLEFAQ000	€ 215,00
<i>Xylella fastidiosa</i> confirmation by NPPO	External				€ 164,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Fusarium oxysporum</i>	Culture method, incl. possible microscopic confirmation	10	Max. 6 stem parts	FOA000	€ 122,00



## Apocynaceae (Continued)

Such as *Catharanthus*, *Dipladenia*, *Mandevilla*, *Vinca*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus (not for Mandevilla), TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
Potyvirus (only for Mandevilla)	PCR	4	Max. 25 leaves	€ 62,50
Phytoplasma, for material without symptoms	PCR	4	Max. 5 stem parts, root parts or leaf vein	€ 57,00
Pospiviroids (CEVd, CLVd, CSVd, IrVd1, PCFVd, PoIVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves	€ 73,50
			Max. 200 leaves	€ 102,00

## Araceae

Such as *Anthurium* spp.

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Ralstonia solanacearum</i>	Culture method, incl. possible confirmation PCR	12	0,5 liter water	RSOLA	€ 61,00
	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	RSQ	€ 86,00
			11-200 stem parts	RSQ000	€ 100,00
<i>Ralstonia solanacearum</i> confirmation by NPPO	External				€ 164,00
<i>Xanthomonas axonopodis</i> pv. <i>Dieffenbachiae</i> , <i>Anthurium</i>	PCR	4	Max. 5 leaves+leaf stems	XADIEQ	€ 57,00
			Max. 25 leaves+leaf stems	XADIEQ000	€ 85,50

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
CMV, INSV, Potyvirus, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Asclepiadaceae

Such as *Asclepias*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Asparagaceae

*Asparagus officinalis*, *asparagus*

### Fungi

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Pathogene <i>Fusarium</i> spp. for asparagus	Bio-assay	50	2,5 - 5 liter soil	FOAB000	€ 174,00
	Culture method, incl. possible microscopic confirmation and pathogenicity test	40	300 seeds	FOAA003	€ 429,00

### Nematodes

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00



## Asteraceae

Such as *Argyranthemum*, *Aster*, *Calocephalus*, *Coreopsis*, *Dahlia*, *Echinacea*, *Gazania*, *Gerbera*, *Helianthus*, *Osteospermum*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Erwinia chrysanthemi</i>					Upon request
<i>Rhodococcus fascians</i>	PCR	4	Max. 10 stem parts	RFASQ	€ 57,00
<b>Combination tests:</b>					
<i>Dickeya</i> spp. and <i>Pectobacterium</i> spp.	PCR	4	1-10 stem parts	COMBIDPQ	€ 70,00

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<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
AltMV, AMV, ArMV, BWYV, CMV, CSNV, CVB, INSV, Potyvirus, TAV, TBRV, TMV-WU1, ToMV-DO3, ToRSV, TRSV, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
CChMVd, CSVd, DMV/DCMV	PCR	4	Max. 25 leaves	€ 57,00
Pospiviroids (CEVd, CLVd, CSVd, IrVd1, PCFVd, PoIVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves Max. 200 leaves	€ 73,50 € 102,00
Tobacco ringspot virus (TRSV) confirmation by NPPO	External			€ 164,00
Tomato ringspot virus (ToRSV) confirmation by NPPO	External			€ 164,00
<b>Combination tests:</b>				
Chrysanthemum chlorotic mottle viroïde (CChMVd) and Chrysanthemum stunt viroid (CSVd)	PCR	4	Max. 25 leaves	€ 57,00

## *Helianthus annuus*, sunflower

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Sclerotinia sclerotiorum</i>	Culture method	11	200 seeds	SCSA002	€ 146,00



**Lactuca sativa, lettuce**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pseudomonas cichorii</i>	SE-PCR	4	10,000 seeds	PCQ100	€ 207,00
<i>Xanthomonas hortorum</i> pv. <i>vitians</i>	SE-PCR	4	10,000 seeds	XHVQ100	€ 207,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Fusarium oxysporum</i>	Culture method, incl. possible microscopic confirmation	22	200 seeds	FOA002SL	€ 210,00
<i>Septoria</i> spp.	Soaking	4	10,000 seeds	SSAF100	€ 77,50
<i>Verticillium</i> sp.	Culture method	15	200 seeds	VSF002KS	€ 127,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	PCR	4	3,000 seeds	ARMVQ030	€ 207,00
Lettuce mosaic virus (LMV)	ELISA, incl. possible confirmation PCR	4	10,000 seeds	LMVE100	€ 204,00
			30,000 seeds	LMVE300	€ 464,00
Lettuce mosaicvirus (LMV) seedlings	ELISA, incl. possible confirmation PCR	10	2,000 seeds	LMVE020	€ 179,00
			10,000 seeds	LMVEZAA100	€ 530,00
Tobacco rattle virus (TRV)	PCR	4	3,000 seeds	TRVQ030	€ 207,00
Tobacco ringspot virus (TRSV)	PCR	4	3,000 seeds	TRSVQ030	€ 207,00



**Lactuca sativa, lettuce (Continued)**

<b>Virus (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TSVQ030	€ 207,00
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR	4	3,000 seeds	TBRVQ030	€ 207,00
Tomato ringspot virus (ToRSV)	PCR	4	3,000 seeds	TORSVQ030	€ 207,00
<b>Combination tests:</b>					
<b>2 viruses</b>					
ArMV and TBRV/BRSV	PCR	2	3,000 seeds	COMBITAQ030	€ 245,00
ArMV and TRSV	PCR	4	3,000 seeds	COMBIATQ030	€ 245,00
TBRV/BRSV and TSV	PCR	4	3,000 seeds	COMBITOTBQ030	€ 245,00
TBRV/BRSV and ToRSV	PCR	2	3,000 seeds	COMBITBTOQ030	€ 245,00
ToRSV and TRSV	PCR	2	3,000 seeds	COMBITOTRQ030	€ 245,00
<b>3 viruses</b>					
ArMV, TBRV/BRSV and TRSV	PCR	4	3,000 seeds	COMBIATTQ030	€ 285,00

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**Balsaminaceae**

*Such as Impatiens*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, INSV, Potyvirus, TMGMV, TMV-WU1, ToMV-DO3, TRSV, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
BaCV	PCR	4	Max. 25 leaves	€ 57,00
Tobacco ringspot virus (TRSV) confirmation by NPPO	External			€ 164,00

**Begoniaceae**

*Such as Begonia*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Ralstonia solanacearum</i>	Culture method, incl. possible confirmation PCR	12	0,5 liter water	RSOLA	€ 61,00
	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	RSQ	€ 86,00
			11-200 stem parts	RSQ000	€ 100,00
<i>Ralstonia solanacearum</i> confirmation by NPPO	External				€ 164,00
<i>Xanthomonas axonopodis</i> pv. <i>begoniae</i>	PCR	4	Max. 2 leaves	XABEGQ	€ 57,00
			Max. 20 leaves	XABEGQ000	€ 85,50





## Begoniaceae (Continued)

Such as *Begonia*

Fungi					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Fusarium foetens</i> , <i>Begonia</i>	Culture method, incl. possible confirmation PCR	12	Max. 5 stem parts	FFA000	€ 93,50

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
AMV, ArMV, BBWV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Berberidaceae

Such as *Epimedium*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Boraginaceae

Such as *Anchusa*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Brassicaceae

Such as *Arabis*, *Aubriëtia*, *Aurinia saxatilis*, *Erysimum*, *Iberis*, *Lobularia*, *Malcolmia*, *Nasturtium*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, ErLV, INSV, Potyvirus, TBRV, TMV-WU1, ToMV-DO3, TRV, TSWV, TYMV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

**Brassica oleracea, Such as White cabbage, cauliflower, broccoli, Brussels sprouts, savoy cabbage, kale, turnip and red cabbage**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pseudomonas syringae</i> pv. <i>maculicola</i>	SE-PCR	4	10,000 seeds	PSMQ100	€ 207,00
	Culture method, incl. possible confirmation PCR	15	2,500 untreated seeds	PSMA025	€ 266,00
			7,500 untreated seeds	PSMA075	€ 266,00
			10,000 untreated seeds	PSMA100-4SUBS	€ 266,00
			10,000 treated seeds	PSMA100B	€ 333,00
<b>Combination tests:</b>					
<b>2 pathogens</b>					
<i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (untreated seeds)	SE-PCR	5	10,000 untreated seeds	COMBIXXQ100	€ 245,00
			30,000 untreated seeds	COMBIXXQ300	€ 297,00
			50,000 untreated seeds	COMBIXXQ500	€ 530,00
<i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (untreated seeds)	Culture method, incl. possible confirmation PCR and pathogenicity test	32	10,000 untreated seeds	XXAS100	€ 245,00
			30,000 untreated seeds	XXAS300	€ 323,00
			50,000 untreated seeds	XXAS500	€ 600,00
<i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (seeds treated with warm water)	Culture method, incl. possible confirmation PCR and pathogenicity test	32	10,000 treated seeds	XXAS100B	€ 323,00
			30,000 treated seeds	XXAS300B	€ 401,00
			50,000 treated seeds	XXAS500B	€ 660,00
			100,000 treated seeds	XXAS1000B	€ 1.220,00
<b>3 pathogens</b>					
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> , <i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (untreated seeds)	SE-PCR	5	10,000 untreated seeds	COMBIXXPQ100	€ 336,00
			30,000 untreated seeds	COMBIXXPQ300	€ 336,00
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> , <i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (seeds treated with warm water)	Culture method, incl. possible confirmation PCR and pathogenicity test	32	10,000 treated seeds	COMBIXXPAS100B	€ 453,00
			30,000 treated seeds	COMBIXXPAS300B	€ 530,00
<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Alternaria japonica</i>	Culture method	11	200 seeds	AJA002	€ 146,00
<i>Phoma lingam</i>	Culture method	26	400 seeds	PLF004	€ 194,00
			1,000 seeds	PLF010	€ 309,00
			3,000 seeds	PLF030	€ 540,00
<i>Plasmodiophora brassicae</i>	Bio-assay	44	100 seeds	PLBKB001	€ 174,00
		44	2,5 liter soil	PLBKB000	€ 174,00
<i>Verticillium</i> sp.	Culture method	15	200 seeds	VSF002KS	€ 127,00
<b>Combination tests:</b>					
<i>Alternaria brassicae</i> and <i>Alternaria brassicicola</i>	Culture method, incl. possible microscopic confirmation	12	200 seeds	COMBIABBA002	€ 212,00



**Brassica oleracea, Such as White cabbage, cauliflower, broccoli, Brussels sprouts, savoy cabbage, kale, turnip and red cabbage (Continued)**

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Raphanus sativus subsp. sativus, radish**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pseudomonas syringae</i> pv. <i>maculicola</i>	SE-PCR	4	10,000 seeds	PSMQ100	€ 207,00
	Culture method, incl. possible confirmation PCR	15	2,500 untreated seeds	PSMA025	€ 266,00
			7,500 untreated seeds	PSMA075	€ 266,00
			10,000 untreated seeds	PSMA100-4SUBS	€ 266,00
			10,000 treated seeds	PSMA100B	€ 333,00
<b>Combination tests:</b>					
<b>2 pathogens</b>					
<i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (untreated seeds)	SE-PCR	5	10,000 untreated seeds	COMBIXXQ100	€ 245,00
			30,000 untreated seeds	COMBIXXQ300	€ 297,00
			50,000 untreated seeds	COMBIXXQ500	€ 530,00
<i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (untreated seeds)	Culture method, incl. possible confirmation PCR and pathogenicity test	32	10,000 untreated seeds	XXAS100	€ 245,00
			30,000 untreated seeds	XXAS300	€ 323,00
			50,000 untreated seeds	XXAS500	€ 600,00
<i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (seeds treated with warm water)	Culture method, incl. possible confirmation PCR and pathogenicity test	32	10,000 treated seeds	XXAS100B	€ 323,00
			30,000 treated seeds	XXAS300B	€ 401,00
			50,000 treated seeds	XXAS500B	€ 660,00
			100,000 treated seeds	XXAS1000B	€ 1.220,00
<b>3 pathogens</b>					
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> , <i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (untreated seeds)	SE-PCR	5	10,000 untreated seeds	COMBIXXPQ100	€ 336,00
			30,000 untreated seeds	COMBIXXPQ300	€ 336,00
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> , <i>Xanthomonas campestris</i> pv. <i>campestris</i> and <i>Xanthomonas campestris</i> pv. <i>raphani</i> (seeds treated with warm water)	Culture method, incl. possible confirmation PCR and pathogenicity test	32	10,000 treated seeds	COMBIXXPAS100B	€ 453,00
			30,000 treated seeds	COMBIXXPAS300B	€ 530,00

**Raphanus sativus subsp. sativus, radish (Continued)**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Alternaria japonica</i>	Culture method	11	200 seeds	AJA002	€ 146,00
<i>Phoma lingam</i>	Culture method	26	400 seeds	PLF004	€ 194,00
			1,000 seeds	PLF010	€ 309,00
			3,000 seeds	PLF030	€ 540,00
<i>Plasmodiophora brassicae</i>	Bio-assay	44	100 seeds	PLBKB001	€ 174,00
		44	2,5 liter soil	PLBKB000	€ 174,00
<i>Verticillium sp.</i>	Culture method	15	200 seeds	VSF002KS	€ 127,00
<b>Combination tests:</b>					
<i>Alternaria brassicae</i> and <i>Alternaria brassicicola</i>	Culture method, incl. possible microscopic confirmation	12	200 seeds	COMBIABBA002	€ 212,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides spp.</i>	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus spp.</i>	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Buxaceae**  
Such as *Pachysandra*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40



## Campanulaceae

Such as *Campanula*, *Isotoma*, *Laurentia*, *Lobelia*, *Monopsis*, *Platycodon*

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Xanthomonas campestris</i> pv. <i>lobeliae</i>					Upon request

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, CVB, INSV, Potyvirus, TBRV, TMV-WU1, ToMV-DO3, ToRSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Cannabaceae

*Cannabis sativa*

Virus					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate per virus or combi (ex. base rate page 6)
AMV, ArMV, CMV, HLVd, ToRSV, TRSV, TSV	PCR	4	Max. 25 leaves	Several	€ 57,00
Alfalfa mosaic virus (AMV)	PCR	4	3,000 seeds	AMVQ030	€ 207,00
<b>Combination tests:</b>					
AMV, ArMV, CMV, HLVd, ToRSV, TRSV, TSV	PCR	4	Max. 25 leaves	COMBIHNP	€ 125,00

## Caprifoliaceae

Such as *Knautia macedonica*, *Scabiosa*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

**Valerianella locusta, corn salad**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Peronospora valerianellae</i>	Bio-assay	23	400 seeds	PVB004	€ 128,00
			1,200 seeds	PVB012	€ 350,00
	Soaking	4	1,000 seeds	PVAF010	€ 77,50
<i>Phoma valerianella</i>	Culture method, incl. possible microscopic confirmation	37	200 seeds	PVF002	€ 127,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Caryophyllaceae**

Such as *Arenaria*, *Dianthus*, *Gypsophila*, *Saponaria*, *Silene*

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Fusarium oxysporum</i>	Culture method, incl. possible microscopic confirmation	10	1-6 stemparts	FOA	€ 75,00
			7-50 stemparts	FOA000	€ 122,00

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
AMV, ArMV, CarMV, CERV, CNFV, CLV, CMV, CRSV, CVMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40



## Chenopodiaceae

*Beta vulgaris*, beet

Fungi					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Heterodera schachtii</i>	External		100 gram seeds	Tested at NPPO	€ 260,00
<i>Phoma betae</i>	Culture method, incl. possible microscopic confirmation	9	200 seeds	PBA002	€ 146,00
			400 seeds	PBA004	€ 293,00

Nematodes					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

Virus					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	PCR	4	3,000 seeds	ARMVQ030	€ 207,00
Tobacco rattle virus (TRV)	PCR	4	3,000 seeds	TRVQ030	€ 207,00
Tobacco ringspot virus (TRSV)	PCR	4	3,000 seeds	TRSVQ030	€ 207,00
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TSVQ030	€ 207,00
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR	4	3,000 seeds	TBRVQ030	€ 207,00
Tomato ringspot virus (ToRSV)	PCR	4	3,000 seeds	TORSVQ030	€ 207,00
<b>Combination tests:</b>					
ArMV and TBRV/BRSV	PCR	4	3,000 seeds	COMBITAQ030	€ 245,00
TBRV/BRSV and TSV	PCR	4	3,000 seeds	COMBITOTBQ030	€ 245,00
ToRSV and TRSV	PCR	4	3,000 seeds	COMBITOTRQ030	€ 245,00

NEW July 2024



**Spinacia oleracea, spinach**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Cladosporium variabile</i>	Culture method, incl. possible microscopic confirmation	15	200 seeds	CVF002	€ 127,00
<i>Colletotrichum dematium</i>	Culture method, incl. possible microscopic confirmation	15	200 seeds	CDF002	€ 127,00
<i>Fusarium oxysporum</i> f.sp. <i>spinaciae</i>	Culture method, incl. possible confirmation PCR	11	400 seeds	FOSPA004	€ 371,00
<i>Peronospora farinosa</i>	Soaking	3	1,000 seeds	PFAF010	€ 77,50
<i>Phomopsis</i> spp.	Visual determination	3	30,000 seeds	PSV300	€ 52,00
<i>Stemphylium botryosum</i>	Culture method	15	200 seeds	SBF002	€ 127,00
<i>Verticillium dahliae</i>	Culture method	15	200 seeds	VDA002	€ 146,00
<i>Verticillium</i> spp.	Culture method	15	200 seeds	VSF002	€ 127,00
<b>Combination tests:</b>					
<b>2 pathogens</b>					
<i>Cladosporium variabile</i> and <i>Stemphylium botryosum</i>	Culture method, incl. possible microscopic confirmation	15	200 seeds	COMBISCF002	€ 194,00
<i>Colletotrichum dematium</i> and <i>Verticillium</i> spp.	Culture method, incl. possible microscopic confirmation	15	200 seeds	COMBIVCO	€ 194,00
<i>Stemphylium botryosum</i> and <i>Verticillium</i> spp.	Culture method	15	200 seeds	COMBIVS	€ 194,00
<b>3 pathogens</b>					
<i>Cladosporium variabile</i> , <i>Stemphylium botryosum</i> and <i>Verticillium</i> spp.	Culture method, incl. possible microscopic confirmation	15	200 seeds	COMBIVCS	€ 258,00
<b>4 pathogens</b>					
<i>Cladosporium variabile</i> , <i>Colletotrichum dematium</i> , <i>Stemphylium botryosum</i> and <i>Verticillium</i> spp.	Culture method, incl. possible microscopic confirmation	15	200 seeds	COMBIVCSC	€ 322,00

NEW May 2024

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00





*Spinacia oleracea, spinach (Continued)*

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Cucumber mosaic virus (CMV)	ELISA	4	2,000 seeds	CMVE020SP	€ 304,00
Sowbane mosaic virus (SoMV)	PCR	4	3,000 seeds	SOMVQ030	€ 207,00
Spinach latent virus (SpLV)	PCR	4	3,000 seeds	SPLVQ030	€ 207,00

**Cistaceae**

*Such as Helianthemum*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40

**Cleomaceae**

*Such as Cleome*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, BBWV, CMV, INSV, Potyvirus, TMV-WU1, TNV1, TNV2, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40

**Commelinaceae**

*Such as Tradescantia*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, ToRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm2	€ 4,40



## Convolvulaceae

Such as *Convolvulus*, *Ipomoea*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Crassulaceae

Such as *Chiastophyllum*, *Kalanchoë* spp., *Sedum*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, INSV, KLV, KMV, Potyvirus, SYNV, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Cucurbitaceae

Such as *cucumber*, *luffa*, *melon*, *pickle*, *pumpkin*, *squash*, *watermelon*

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Acidovorax citrulli</i> - grow out (performed with treated seeds)	Bio-assay, incl. possible confirmation PCR and pathogenicity test	30	10,000 seeds	ACB100	€ 530,00
			30,000 seeds	ACB300	€ 1.410,00
<i>Acidovorax citrulli</i> - grow out (with additional costs for treatment by Naktuinbouw)	Bio-assay, incl. possible confirmation PCR and pathogenicity test	30	10,000 seeds	ACB100+O	€ 610,00
			20,000 seeds	ACB200+O	€ 1.490,00
			30,000 seeds	ACB300+O	€ 1.490,00

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Acidovorax citrulli</i> (untreated seeds only) If positive a grow out is recommended to confirm	SE-PCR	5	10,000 seeds	ACQ100	€ 259,00
			20,000 seeds	ACQ200	€ 520,00
			30,000 seeds	ACQ300	€ 520,00
			40,000 seeds	ACQ400	€ 910,00
			50,000 seeds	ACQ500	€ 910,00
			60,000 seeds	ACQ600	€ 910,00
<i>Pseudomonas syringae</i> pv. <i>lachrymans</i>	SE-PCR	5	10,000 seeds	PSLQ100	€ 259,00
<i>Xanthomonas cucurbitae</i>	SE-PCR	5	10,000 seeds	XCQ100	€ 259,00

Such as cucumber, luffa, melon, pickle, pumpkin, squash, watermelon (Continued)

<b>Bacteria (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
<b>2 pathogens</b>					
<i>Acidovorax citrulli</i> and <i>Pseudomonas syringae</i> pv. <i>lachrymans</i>	SE-PCR	5	10,000 seeds	COMBIAPQ100	€ 297,00
<i>Acidovorax citrulli</i> and <i>Xanthomonas cucurbitae</i>	SE-PCR	5	10,000 seeds	COMBIAXQ100	€ 297,00
<i>Pseudomonas syringae</i> pv. <i>lachrymans</i> and <i>Xanthomonas cucurbitae</i>	SE-PCR	5	10,000 seeds	COMBIPXQ100	€ 297,00
<b>3 pathogens</b>					
<i>Acidovorax citrulli</i> , <i>Pseudomonas syringae</i> pv. <i>lachrymans</i> and <i>Xanthomonas cucurbitae</i>	SE-PCR	5	10,000 seeds	COMBIAPXQ100	€ 336,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Alternaria cucumerina</i>	Culture method	9	200 seeds	9-ACA002	€ 161,00
<i>Cladosporium cucumerinum</i>	Culture method, incl. possible microscopic confirmation	15	200 seeds	CCF002	€ 133,00
<i>Colletotrichum orbiculare</i>	Culture method, incl. possible microscopic confirmation	15	200 seeds	COF002	€ 127,00
<i>Fusarium oxysporum</i> and <i>Fusarium solani</i>	Culture method, incl. possible microscopic confirmation	22	200 seeds	FOSA002	€ 179,00
<i>Verticillium dahliae</i>	Culture method	15	200 seeds	VDA002	€ 146,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00



Such as cucumber, luffa, melon, pickle, pumpkin, squash, watermelon (Continued)

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 12)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	ELISA	4	2,000 seeds	ARMVE020	€ 304,00
Cucumber green mottle mosaic virus (CGMMV)	Bio-assay	19	2,000 seeds	CGMMVB020	€ 350,00
	ELISA	4	2,000 seeds	CGMMVE020	€ 304,00
			9,400 seeds	CGMMVE100	€ 1.520,00
Cucumber leaf spot virus (CLSV)	ELISA	4	1,000 seeds	CLSVE010	€ 304,00
Cucumber mosaic virus (CMV)	ELISA	4	2,000 seeds	CMVE020	€ 304,00
Kyuri green mottle mosaic virus (KGMMV)	ELISA	4	2,000 seeds	KGMMVE20	€ 304,00
			9,400 seeds	KGMMVE100	€ 1.520,00
Melon necrotic spot virus (MNSV)	ELISA	4	2,000 seeds	MNSVE020	€ 304,00
			9,400 seeds	MNSVE100	€ 1.520,00
Squash mosaic virus (SqMV)	ELISA	4	2,000 seeds	SQMVE020	€ 304,00
Tomato ringspot virus (ToRSV); only melon seeds	PCR	4	3,000 seeds	TORSVQ030	€ 207,00
Tobacco ringspot virus (TRSV); only melon seeds	PCR	4	3,000 seeds	TRSVQ030	€ 207,00
Zucchini green mottle mosaic virus (ZGMMV)	ELISA	4	2,000 seeds	ZGMMVE020	€ 304,00
			4.600 seeds	ZGMMVE046	€ 478,00
Zucchini yellow mosaic virus (ZYMV)	ELISA	4	2,000 seeds	ZYMVE020	€ 304,00
<b>Combination tests:</b>					
Combi ToRSV and TRSV; only melon seeds	PCR	2	3,000 seeds	COMBITOTRQ030	€ 245,00
<b>ArMV, CGMMV, CMV, KGMMV, MNSV, SqMV, ZGMMV, ZYMV</b>					
2 viruses:	ELISA	4	2,000 seeds		€ 395,00
			4,000 seeds		€ 710,00
			9,400 seeds		€ 1.610,00
3 viruses:	ELISA	4	2,000 seeds		€ 485,00
			4,000 seeds		€ 790,00
			9,400 seeds		€ 1.710,00
4 viruses:	ELISA	4	2,000 seeds		€ 570,00
			9,400 seeds		€ 1.790,00
5 viruses	ELISA	4	2,000 seeds		€ 660,00
			9,400 seeds		€ 1.880,00
6 viruses	ELISA	4	2,000 seeds		€ 750,00

## Euphorbiaceae

Such as *Acalypha*, *Chamaesyce*, *Euphorbia*, *Euphorbia fulgens*, *Euphorbia pulcherrima*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, PnMV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40



## Fabaceae

Such as Alfalfa, Cassia, Crotalaria, Erythrina, Lotus, Lupinus

### Fungi

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Colletotrichum</i> spp. for Lupine, Armeria etc.	Culture method, incl. possible microscopic confirmation	9	200 seeds	CSF002	€ 127,00

### Virus

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	Several	€ 4,40
Alfalfa mosaic virus (AMV)	PCR	4	3,000 seeds	AMVQ030	€ 207,00

### Phaseolus, bean

### Bacteria

Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i>	Culture method, incl. possible confirmation PCR	15	5,000 seeds	CFFA050	€ 266,00
<i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> confirmation by NPPO	External				€ 164,00
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>	Culture method, incl. possible confirmation PCR	12	5,000 seeds	PSPA050	€ 245,00
<i>Pseudomonas syringae</i> pv. <i>syringae</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	PSSA050	€ 266,00
<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	15	5,000 seeds	XAXFA050	€ 230,00
			30,000 seeds	XAXFA300	€ 590,00
<b>Combination tests:</b>					
<b>3 pathogens</b>					
<i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> , <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	COMBIXCA050	€ 438,00
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> and <i>Pseudomonas syringae</i> pv. <i>syringae</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	COMBIPPA050	€ 453,00
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> , <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	COMBIXPA050	€ 433,00
			10,000 seeds	COMBIXPA100	€ 492,00
<i>Pseudomonas syringae</i> pv. <i>syringae</i> , <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	COMBIPXA050	€ 438,00

Phaseolus, bean (Continued)

<b>Bacteria (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests: (Continued)</b>					
<b>4 pathogens</b>					
<i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> , <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> , <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	15	5,000 seeds	COMBIXPCA050	€ 620,00
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> , <i>Pseudomonas syringae</i> pv. <i>syringae</i> , <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	COMBIXPPA050	€ 620,00
			10,000 seeds	COMBIXPPA100	€ 620,00
			30,000 seeds	COMBIXPPA300	€ 870,00
<b>5 pathogens</b>					
<i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> , <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> , <i>Pseudomonas syringae</i> pv. <i>syringae</i> , <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas fuscans</i> subsp. <i>fuscans</i>	Culture method, incl. possible confirmation PCR	14	5,000 seeds	COMBIXPPCA050	€ 830,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Colletotrichum lindemuthianum</i>	Culture method, incl. possible microscopic confirmation	9	200 seeds	CLF002	€ 127,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00



*Phaseolus vulgaris, common bean*

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Bean common mosaic virus (BCMV)	ELISA	12	400 seeds	BCMVE004	€ 433,00

*Pisum sativum, pea*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Pseudomonas syringae</i> pv. <i>pisii</i>	Culture method, incl. possible confirmation PCR	22	5,000 seeds	PSPIA050	€ 266,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Ascochyta</i> spp.	Culture method, incl. possible microscopic confirmation	11	200 seeds	ASSA002	€ 146,00
			400 seeds	ASSA004	€ 293,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Pea early browning virus (PEBV)	ELISA	4	2,000 seeds	PEBVE020	€ 304,00
Pea seed-borne mosaic virus (PSbMV)	ELISA	4	2,000 seeds	PSBMVE020	€ 304,00
<b>Combination tests:</b>					
Combitoets PEBV and PSbMV	ELISA	4	2,000 seeds	COMBIPPE020	€ 395,00



**Vicia faba, broadbean**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Ascochyta</i> spp.	Culture method, incl. possible microscopic confirmation	11	200 seeds	ASSA002	€ 146,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Gentianaceae**

Such as *Eustoma*, *Gentiana*, *Lisianthus*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, BBWV, CMV, INSV, IYSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40





## Geraniaceae

Such as *Erodium*, *Geranium* spp., *Pelargonium grandiflorum*, *Pelargonium peltatum*, *Pelargonium* spp., *Pelargonium zonale*

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Ralstonia solanacearum</i>	Culture method, incl. possible confirmation PCR	12	0,5 liter water	RSOLA	€ 61,00
	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	RSQ	€ 86,00
			11-200 stem parts	RSQ000	€ 100,00
<i>Ralstonia solanacearum</i> confirmation by NPPO	External				€ 164,00
<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i>	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	XHPQ	€ 86,00
			11-200 stem parts	XHPQ000	€ 100,00
<i>Xylella fastidiosa</i>	PCR	4	100 to 200 leaves or twigs	XYLEFAQ000	€ 215,00
<i>Xylella fastidiosa</i> confirmation by NPPO	External				€ 164,00
<b>Combination tests:</b>					
NEW Jan. 2024 <i>Ralstonia solanacearum</i> and <i>Xanthomonas hortorum</i> pv. <i>Pelargonii</i>	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	COMBIRXQ	€ 128,00
			11-200 stem parts	COMBIRXQ000	€ 156,50

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Verticillium</i> species	Culture method	15	5 stem parts	VSA000	€ 71,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)	
AltMV, AMV, ArMV, CMV, INSV, PFBV, PLPV, Potyvirus, TBRV, TBSV, TMV-WU1, ToMV-DO3, ToRSV, TRSV, TRV, TSWV	ELISA	4	For <i>Pelargonium</i> 1-2 stem parts For other crops 1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40	

## Gesneriaceae

Such as *Achimenes*, *Aeschynanthus*, *Streptocarpus*

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)	
AMV, ArMV, CMV, INSV, Potyvirus, SFBV, TBRV, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40	

## Globulariaceae

*Such as Globularia*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Goodeniaceae

*Such as Goodenia, Scaevola*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus (not for Scaevola), TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
Potyvirus (only for Scaevola)	PCR	4	Max. 25 leaves	€ 62,50
VeLV	PCR	4	Max. 25 leaves	€ 57,00

## Hemerocallidaceae

*Such as Hemerocallis*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Hostaceae

*Such as Hosta*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, HVX, INSV, Potyvirus, ToRSV, TRSV, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Hydrangeaceae

Such as *Hydrangea*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, EMVD, HdRSV, INSV, Potyvirus, TNV1, TNV2, ToRSV, TRV, TRSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Iridaceae

Such as *Freesia*, *Iris (rhizoom)*, *Sisyrinchium*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
ArMV, BBWV, BYMV, CMV, INSV, Potyvirus, ToRSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
<b>Combination tests:</b>				
Freesia virusses FreMV, FreSV, BYMV and FreV1	PCR	4	Max. 50 leaves	€ 57,00
			Max. 75 - 150 leaves	€ 171,00

## Lamiaceae

Such as *Agastache*, *Ajuga*, *Lavandula*, *Mentha*, *Nepeta*, *Perovskia*, *Plectranthus*, *Rosmarinus*, *Salvia*, *Thymus*

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Xylella fastidiosa</i>	PCR	4	100 tot 200 leaves or twigs	XYLEFAQ000	€ 215,00
<i>Xylella fastidiosa</i> confirmation by NPPO	External				€ 164,00

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, BBWV, CMV, INSV, Potyvirus, TBRV, TMV-WU1, ToMV-DO3, TRSV, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

**Ocimum basilicum, basil**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Fusarium oxysporum</i>	Culture method, incl. possible microscopic confirmation	22	200 seeds	FOA002BA	€ 179,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

**Liliaceae**

Such as *Convallaria*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

**Lythraceae**

Such as *Cuphea*, *Lythrum*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40



## Malvaceae

*Such as Abutilon, Alyogyne, Anisodonthea, Hibiscus, Lavatera*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Melastomataceae

*Such as Centradenia, Heterocentron, Tibouchina*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Nolanaceae

*Such as Nolana*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Nyctaginaceae

*Such as Bougainvillea*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Oleaceae

*Such as Jasminum*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Onagraceae

*Such as Fuchsia, Gaura, Oenothera, Zauschneria*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Orchidaceae

*Such as Cymbidium, Dendrobium, Phalaenopsis*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
CarMV, CMV, CymMV, INSV, ORSV, Potyvirus, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
OFV	PCR	4	Max. 25 leaves	€ 57,00
<b>Combination tests:</b>				
<b>2 viruses</b>				
Cymbidium mosaic virus (CymMV) and Odontoglossum ringspot virus (ORSV)	PCR	4	Max. 25 leaves	€ 57,00
<b>3 viruses</b>				
Cymbidium mosaic virus (CymMV), Impatiens necrotic spot virus (INSV) and Odontoglossum ringspot virus (ORSV)	PCR	4	Max. 25 leaves	€ 70,00
Cymbidium mosaic virus (CymMV), Odontoglossum ringspot virus (ORSV) and Orchid fleck virus (OFV)	PCR	4	Max. 25 leaves	€ 70,00
<b>4 viruses</b>				
Cymbidium mosaic virus (CymMV), Odontoglossum ringspot virus (ORSV), Orchid fleck virus (OFV) and Tomato ringspot virus (ToRSV)	PCR	4	Max. 25 leaves	€ 82,50

## Oxalidaceae

*Such as Oxalis*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus (not for Oxalis), TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
Potyvirus (only for Oxalis)	PCR	4	Max. 25 leaves	€ 62,50

## Paeoniaceae

*Such as Paeonia*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Papaveraceae

*Such as Dicentra*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TorSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Passifloraceae

*Such as Passiflora*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Plumbaginaceae

*Such as Ceratostigma, Festuca, Hakonechloa, Limonium, Lolium, Miscanthus, Plumbago*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, BBWV, CMV, INSV, Potyvirus, TBSV, TMV-WU1, ToMV-DO3, ToRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Polemoniaceae

*Such as Phlox, Polemonium*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, AnFBV (AFMoV), ArMV, CMV, INSV, Potyvirus, TAV, TBRV, TBSV, TMV-WU1, TNV1, TNV2, ToMV-DO3, ToRSV, TRSV, TRV, TSV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Polygonaceae

*Such as Muehlenbeckia, Persicaria, Polygonum*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TBRV, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Portulacaceae

*Such as Portulaca*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, BWYV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, ToRSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
Pospiviroïden (CEVd, CLVd, CSVd, IrVd1, PCFVd, PolVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves	€ 73,50
			Max. 200 leaves	€ 102,00



## Primulaceae

Such as *Anagalis*, *Lysimachia*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Ranunculaceae

Such as *Aconitum*, *Actaea*, *Anemone*, *Aquilegia*, *Clematis*, *Delphinium*, *Helleborus*, *Pulsatilla*, *Thalictrum*, *Trollius*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
AMV, ArMV, BBWV, CMV, INSV, Potyvirus, TMV-WU1, TNV1, TNV2, ToMV-DO3, ToRSV, TRSV, TSWV, TSV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
<b>Combination tests:</b>				
Helleborus mosaic virus (HEMV) and Helleborus net necrosis virus (HeNNV)	PCR	4	Max. 25 leaves	€ 57,00

## Rosaceae

Such as *Crataegus*, *Fragaria*, *Malus*, *Prunus*, *Pyrus*, *Rosa*, *Rubus*

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Agrobacterium tumefaciens</i>	Culture method, incl. possible confirmation PCR	7	0,5 liter water	ATUMP	€ 127,00
	PCR	4	Max. 5 stem parts	ATUMQ	€ 57,00
<i>Ralstonia solanacearum</i>	Culture method, incl. possible confirmation PCR	12	0,5 liter water	RSOLA	€ 61,00
	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	RSQ	€ 86,00
			11-200 stem parts	RSQ000	€ 100,00
<i>Ralstonia solanacearum</i> confirmation by NPPO	External				€ 164,00

Fungi					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Verticillium</i> species	Culture method	15	5 stem parts	VSA000	€ 71,00

## Rosaceae (Continued)

Such as *Crataegus*, *Fragaria*, *Malus*, *Prunus*, *Pyrus*, *Rosa*, *Rubus*

Virus					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)	
Apple proliferation phytoplasma group	PCR	4	Max. 12 root parts	€ 57,00	
PNRSV			Max. 25 leaves		

## *Fragaria x ananassa*, strawberry

Bacteria					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Agrobacterium tumefaciens</i>	Culture method, incl. possible confirmation PCR	7	0,5 liter water	ATUMP	€ 127,00
	PCR	4	Max. 5 stem parts	ATUMQ	€ 57,00
<i>Erwinia pyrifoliae</i>	PCR	4	Max. 30 leaves	EPQ000	€ 151,00
<i>Ralstonia solanacearum</i>	Culture method, incl. possible confirmation PCR	12	0,5 liter water	RSOLA	€ 61,00
	PCR, incl. possible culture method and confirmation PCR	10	1-10 stem parts	RSQ	€ 86,00
			11-200 stem parts	RSQ000	€ 100,00
<i>Ralstonia solanacearum</i> confirmation by NPPO	External				€ 164,00
<i>Xanthomonas fragariae</i>	PCR	4	Max. 30 leaves	XFRAQ000	€ 151,00
<b>Combination tests:</b>					
<i>Erwinia pyrifoliae</i> and <i>Xanthomonas fragariae</i>	PCR	4	Max. 30 leaves	COMBIXEQ000	€ 163,00

Fungi					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Colletotrichum acutatum</i>	Culture method, incl. possible microscopic confirmation	15	200 seeds	CAF002	€ 127,00
<i>Phytophthora fragariae</i>	PCR	4	Max. 150 gram roots	PFQ000	€ 85,50
<i>Verticillium</i> species	Culture method	15	5 stem parts	VSA000	€ 71,00
<b>Combination tests:</b>					
<i>Phytophthora ramorum</i> and <i>Phytophthora kernoviae</i>	PCR	4	Max. 20 leaves	COMBIPRKQ000	€ 70,00
<i>Verticillium dahliae</i> en <i>Verticillium albo-atrum</i>	PCR	4	1-10 stem parts	COMBIVVQ	€ 162,25
<i>Neopestalotiopsis</i> and <i>Phytophthora cactorum</i>	PCR	4	1-10 stem parts	COMBINPQ	€ 163,00
<i>Colletotrichum acutatum</i> , <i>Neopestalotiopsis</i> and <i>Phytophthora cactorum</i>	PCR	4	1-10 stem parts	COMBICNPQ	€ 176,00
<i>Colletotrichum acutatum</i> , <i>Neopestalotiopsis</i> spp., <i>Phytophthora cactorum</i> , <i>Verticillium albo-atrum</i> s.l. and <i>Verticillium dahliae</i>	PCR	4	1-10 stem parts	COMBICNPVVQ	€ 205,00

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NEW Sept. 2024

NEW July 2024

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**Fragaria x ananassa, strawberry (Continued)**

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
PNRSV	PCR	4	Max. 25 leaves	€ 57,00
<b>Combination tests:</b>				
Strawberry crinkle virus (SCV), Strawberry mottle virus (SMoV), Strawberry mild yellow edge virus (SMYEV) and trawberry vein banding virus (SVBV)	PCR	4	Max. 10 leaves	€ 70,00
Arabis mosaic virus (ArMV), Strawberry crinkle virus (SCV), Strawberry mottle virus (SMoV), Strawberry mild yellow edge virus (SMYEV) and trawberry vein banding virus (SVBV)	PCR	4	Max. 10 leaves	€ 82,50
Arabis mosaic virus (ArMV), Raspberry ringspot virus (RpRSV), Strawberry crinkle virus (SCV), Strawberry mottle virus (SMoV), Strawberry mild yellow edge virus (SMYEV) and trawberry vein banding virus (SVBV)	PCR	4	Max. 10 leaves	€ 96,00

NEW July 2024



**Rubus**

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Phytophthora rubi</i>	PCR	4	Max. 150 gram roots	PRUQ000	€ 85,50

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus or combi (ex. base rate page 6)
BRNV, RBDV, RLMV, RVCV, RYNV	PCR	4	Max. 25 leaves	€ 57,00
<b>Combination tests:</b>				
RBDV and RVCV	PCR	4	Max. 25 leaves	€ 70,00
BRNV, RBDV and RYNV	PCR	4	Max. 25 leaves	€ 82,50
BRNV, RBDV, RLMV, RVCV, RYNV	PCR	4	Max. 25 leaves	€ 109,00

NEW July 2024  
NEW Apr. 2024

**Rubiaceae**

Such as *Bouvardia hybr.*, *Galium*, *Manettia*, *Pentas*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, BWYV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, ToRSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

**Saururaceae**

Such as *Houttuynia*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40



## Saxifragaceae

Such as *Astilbe*, *Bergenia*, *Francoa*, *Heuchera*, *Rodgersia*, *Saxifraga*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TBRV, TMV-WU1, TNV1, TNV2, ToMV-DO3, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Scrophulariaceae

Such as *Bacopa*, *Buddleja*, *Diascia*, *Hebe*, *Nemesia*, *Phygelius*, *Sutera*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, AnFBV (AFMoV), ArMV, BBWV, BWYV, CMV, CVB, INSV, Potyvirus, ScrMV, TMV-WU1, ToMV-DO3, ToRSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
BaCV	PCR	4	Max. 25 leaves	€ 57,00
Pospiviroids (CEVd, CLVd, CSVd, IrVd1, PCFVd, PoIVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves	€ 73,50
			Max. 200 leaves	€ 102,00
<b>Combination tests:</b>				
AMV, ArMV, CMV, TBRV/BRSV and ToRSV (for <i>Buddleja</i> )	PCR	4	Max. 25 leaves	€ 109,00

NEW Sept. 2024

## Solanaceae

Such as *Calibrachoa*, *Capsicum*, *Petunia*, *Solanum*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, BBWV, CbMV, CMV, INSV, PepMV, Potyvirus, PVX, RMV, TAV, TBSV, TBRV, TMGMV, TMV-WU1, TNV1, TNV2, ToMV-DO3, ToRSV, TRSV, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
Pospiviroids (CEVd, CLVd, CSVd, IrVd1, PCFVd, PoIVd, PSTVd, TASVd, TCDVd, TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves	€ 73,50
			Max. 200 leaves	€ 102,00

**Capsicum annuum L., pepper**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>	Culture method, incl. possible confirmation PCR and pathogenicity test	35	10,000 seeds	CMMA100PA	€ 230,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	4	10,000 seeds	CMMQ100	€ 207,00
			30,000 seeds	CMMQ300	€ 259,00
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (syn: <i>Clavibacter sepedonicus</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	CSQ100	€ 207,00
<i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Synoniem: <i>Pectobacterium carotovorum</i> )	Culture method, incl. possible confirmation PCR	13	10,000 seeds	ECCA100	€ 226,00
<i>Ralstonia solanacearum</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	RSQ100	€ 207,00
<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	17	10,000 seeds	XCVA100PA	€ 231,00
			30,000 seeds	XCVA300PA	€ 307,00
<b>NEW May 2024</b> <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBIXVEPGQ100	€ 285,00
<b>Combination tests:</b>					
<b>NEW June 2024</b> <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>Clavibacter sepedonicus</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICCQ100	€ 245,00
<b>NEW Aug. 2024</b> <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICXQ100	€ 323,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	37	10,000 seeds	COMBICXA100PA	€ 398,00
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>C. sepedonicus</i> ) and <i>Ralstonia solanacearum</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICSQ100	€ 245,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> , <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>C. sepedonicus</i> ) and <i>Ralstonia solanacearum</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICCSQ100	€ 285,00

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Verticillium dahliae</i>	Culture method	14	200 seeds	VDA002	€ 146,00
			400 seeds	VDA004	€ 293,00



*Capsicum annuum L., pepper (Continued)*

<b>Nematodes</b>					
Pathogen	Method	Lead time	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	PCR	4	3,000 seeds	ARMVQ030	€ 207,00
Pospiviroids (CEVd, CLVd, PCFVd, PSTVd, TASVd, TCDVd and TPMVd)	PCR	4	3,000 seeds	COMBIPOSPIQ030PA	€ 285,00
			4,800 seeds (12 x 400)	COMBIPOSPIQ048PA	€ 750,00
			20,000 seeds	COMBIPOSPIQ200PA	€ 2.060,00
PSTVd, TCDVd, TPMVd	PCR	4	3,000 seeds	PSTVDQ030PA	€ 207,00
			20,000 seeds	PSTVDQ200PA	€ 2.900,00
Tobacco rattle virus (TRV)	PCR	4	3,000 seeds	TRVQ030	€ 207,00
Tobacco ringspot virus (TRSV)	PCR	4	3,000 seeds	TRSVQ030	€ 207,00
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TSVQ030	€ 207,00
Tobamovirus (ToMV-D03, TMV-WU1, PMMoV)	Bio-assay	11	3,000 seeds	TOBAMOB030	€ 219,00
	ELISA	4	3,000 seeds	COMBITOBAMO EPA	€ 264,00
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR		3,000 seeds	TBRVQ030	€ 207,00
Tomato brown rugose fruit virus (ToBRFV)	PCR, incl. possible confirmation PCR	4	3,000 seeds	TOBRFVQ030PA	€ 210,00
			4,800 seeds (12 x 400)	TOBRFVQ048PA	€ 550,00
			6,000 seeds	TOBRFVQ060PA	€ 262,00
			20,000 seeds	TOBRFVQ200PA	€ 1.450,00
Tomato brown rugose fruit virus (ToBRFV) confirmation on request					€ 77,50
Tomato bushy stunt virus (TBSV)	ELISA	4	3,000 seeds	TBSVE030	€ 174,00
Tomato mottle mosaic virus (ToMMV)	PCR	4	3,000 seeds	TOMMVQ030PA	€ 207,00
			4,800 seeds (12 x 400)	TOMMVQ048PA	€ 540,00
			20,000 seeds (50 x 400)	TOMMVQ200PA	€ 1.450,00
Tomato ringspot virus (ToRSV)	PCR		3,000 seeds	TORSVQ030	€ 207,00
Tomato yellow leaf curl virus (TYLCV)	PCR	4	3,000 seeds	TYLCVQ030PA	€ 207,00



**Capsicum annuum L., pepper (Continued)**

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
<b>2 viruses</b>					
ArMV en TBRV/BRSV	PCR	4	3,000 seeds	COMBITAQ030	€ 245,00
ArMV en TRSV	PCR	4	3,000 seeds	COMBIATQ030	€ 245,00
Pospiviroids and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPTQ030PA	€ 366,00
			4,800 seeds	COMBIPTQ048PA	€ 820,00
			20,000 seeds	COMBIPTQ200PA	€ 2.260,00
Pospiviroids and ToMMV	PCR	4	3,000 seeds	COMBIPTOMQ030PA	€ 323,00
			4,800 seeds	COMBIPTOMQ048PA	€ 860,00
			20,000 seeds	COMBIPTOMQ200PA	€ 2.260,00
NEW Mrt. 2024 Pospiviroids and ToRSV	PCR	4	3,000 seeds	COMBIPOTOQ030PA	€ 362,00
PSTVd and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPSTOQ030PA	€ 249,00
NEW July 2024 TBRV/BRSV and TSV	PCR	4	3,000 seeds	COMBITOTBQ030	€ 245,00
TBRV/BRSV and ToRSV	PCR	2	3,000 seeds	COMBITBTOQ030	€ 245,00
ToBRFV and ToMMV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITTQ030PA	€ 249,00
			20,000 seeds	COMBITTQ200PA	€ 1.660,00
ToRSV and TRSV	PCR	4	3,000 seeds	COMBITOTRQ030	€ 245,00
<b>3 viruses</b>					
ArMV, TBRV/BRSV en TRSV	PCR	4	3,000 seeds	COMBIATTQ030	€ 285,00
Pospiviroids, ToMMV and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPTTQ030PA	€ 404,00
			4,800 seeds	COMBIPTTQ048PA	€ 940,00
			20,000 seeds	COMBIPTTQ200PA	€ 2.470,00

**Solanum lysopersicum, tomato**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>	Culture method, incl. possible confirmation PCR and pathogenicity test	35	10,000 seeds	CMMA100	€ 230,00
			20,000 seeds	CMMA200	€ 307,00
			30,000 seeds	CMMA300	€ 307,00
			50,000 seeds	CMMA500	€ 570,00
			60,000 seeds	CMMA600	€ 570,00
			100,000 seeds	CMMA1000	€ 1.130,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	4	10,000 seeds	CMMQ100	€ 207,00
			30,000 seeds	CMMQ300	€ 259,00
	SE-PCR and culture	35	10,000 seeds	COMBICMMQA100	€ 453,00
			30,000 seeds	COMBICMMQA300	€ 590,00
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>Clavibacter sepedonicus</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	CSQ100	€ 207,00





**Solanum lysopersicum, tomato (Continued)**

<b>Bacteria (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Syn: <i>Pectobacterium carotovorum</i> )	Culture method, incl. possible confirmation PCR	13	10,000 seeds	ECCA100	€ 226,00
<i>Pseudomonas syringae</i> pv. <i>tomato</i>	Culture method, incl. possible confirmation PCR	17	10,000 seeds	PSTA100	€ 231,00
			30,000 seeds	PSTA300	€ 307,00
<b>NEW May 2024</b> <i>Pseudomonas syringae</i> pv. <i>tomato</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	PSTQ100	€ 207,00
<i>Ralstonia solanacearum</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	RSQ100	€ 207,00
<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> groep (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	17	10,000 seeds	XCVA100	€ 231,00
			30,000 seeds	XCVA300	€ 307,00
<b>NEW May 2024</b> <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> groep (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBIXVEPGQ100	€ 285,00
<b>Combination tests:</b>					
<b>2 pathogens</b>					
<b>NEW June 2024</b> <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>Clavibacter sepedonicus</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICCQ100	€ 245,00
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>Clavibacter sepedonicus</i> ) and <i>Ralstonia solanacearum</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICSQ100	€ 245,00
<b>NEW Aug. 2024</b> <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICXQ100	€ 323,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	37	10,000 seeds	COMBICXA100	€ 411,00
			20,000 seeds	COMBICXA200	€ 488,00
			30,000 seeds	COMBICXA300	€ 488,00
			50,000 seeds	COMBICXA500	€ 750,00
			60,000 seeds	COMBICXA600	€ 750,00
<i>Erwinia carotovora</i> subsp. <i>carotovora</i> and <i>Pseudomonas syringae</i> pv. <i>tomato</i>	Culture method, incl. possible confirmation PCR	17	10,000 seeds	COMBIEPA100	€ 476,00
<i>Pseudomonas syringae</i> pv. <i>tomato</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	17	10,000 seeds	COMBIPXA100	€ 411,00
			30,000 seeds	COMBIPXA300	€ 488,00



**Solanum lysopersicum, tomato (Continued)**

<b>Bacteria (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests: (Continued)</b>					
<b>3 pathogens</b>					
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> , <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Syn: <i>S. sepedonicus</i> ) and <i>Ralstonia solanacearum</i> (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICCSQ100	€ 285,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> , <i>Pseudomonas syringae</i> pv. <i>tomato</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	37	10,000 seeds	COMBICPXA100	€ 570,00
			20,000 seeds	COMBICPXA200	€ 650,00
			30,000 seeds	COMBICPXA300	€ 650,00
			50,000 seeds	COMBICPXA500	€ 920,00
			60,000 seeds	COMBICPXA600	€ 920,00
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> , <i>Pseudomonas syringae</i> pv. <i>tomato</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBICPXQ100	€ 362,00
			30,000 seeds	COMBICPXQ300	€ 414,00
<b>4 pathogens</b>					
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> , <i>Erwinia carotovora</i> subsp. <i>carotovora</i> , <i>Pseudomonas syringae</i> pv. <i>tomato</i> and <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	37	10,000 seeds	COMBICPXE100	€ 740,00

NEW May 2024

<b>Fungi</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Alternaria solani</i>	Culture method	12	200 seeds	ASF002	€ 127,00
<i>Didymella lycopersici</i>	Culture method	11	200 seeds	DLA002	€ 146,00
<i>Fusarium oxysporum</i> f.sp. <i>lycopersici</i>	Culture method, incl. possible confirmation PCR	11	200 seeds	FOLA002	€ 165,00
<i>Verticillium dahliae</i>	Culture method	14	200 seeds	VDA002	€ 146,00

NEW June 2024



**Solanum lysopersicum, tomato (Continued)**

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	PCR	4	3,000 seeds	ARMVQ030	€ 207,00
Pelargonium zonate spot virus (PZSV)	ELISA	4	3,000 seeds	PZSVE030	€ 174,00
NEW Jan. 2024 Pepino mosaic virus (PepMV)	ELISA	4	Max. 14 leaves	PEPMVE0BL	€ 4,40
	PCR		3,000 seeds	PEPMVQ030	€ 207,00
			4,800 seeds (12 x 400)	PEPMVQ048	€ 414,00
			20,000 seeds (20 x 1,000)	PEPMVQ200	€ 1.450,00
Pospiviroids (CEVd, CLVd, PCFVd, PSTVd, TASVd, TCDVd and TPMVd)	PCR	4	3,000 seeds	COMBIPOSPIQ030	€ 285,00
			4,800 seeds (12 x 400)	COMBIPOSPIQ048	€ 750,00
			6,000 seeds	COMBIPOSPIQ060	€ 336,00
			20,000 seeds	COMBIPOSPIQ200	€ 2.060,00
NEW July 2024 PSTVd, TCDVd, TPMVd	PCR	4	3,000 seeds	PSTVDQ030	€ 207,00
Strawberry latent ringspot virus (SLRSV)	PCR	4	3,000 seeds	SLRSVQ030	€ 207,00
Tobacco rattle virus (TRV)	PCR	4	3,000 seeds	TRVQ030	€ 207,00
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TRSVQ030	€ 207,00
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TSVQ030	€ 207,00
Tobamovirus (ToMV-DO3 en TMV-WU1)	Biotoets	11	3,000 seeds	TOBAMOB030	€ 219,00
	ELISA	4	3,000 seeds	COMBITOBAMOE	€ 219,00
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR	4	3,000 seeds	TBRVQ030	€ 207,00



**Solanum lysopersicum, tomato (Continued)**

<b>Virus (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Tomato brown rugose fruit virus (ToBRFV)	PCR, incl. possible confirmation PCR	4	3,000 seeds	TOBRFVQ030	€ 210,00
			4,800 seeds (12 x 400)	TOBRFVQ048	€ 550,00
			6,000 seeds	TOBRFVQ060	€ 262,00
			20,000 seeds (20 x 1,000)	TOBRFVQ200	€ 1.450,00
Tomato brown rugose fruit virus (ToBRFV) confirmation on request					€ 77,50
Tomato bushy stunt virus (TBSV)	ELISA	4	3,000 seeds	TBSVE030	€ 174,00
Tomato mottle mosaic virus (ToMMV)	PCR	4	3,000 seeds	TOMMVQ030	€ 207,00
			4,800 seeds	TOMMVQ048	€ 540,00
			20,000 seeds (20 x 1,000)	TOMMVQ200	€ 1.450,00
Tomato ringspot virus (ToRSV)	PCR	4	3,000 seeds	TORSVQ030	€ 207,00
Tomato yellow leaf curl virus (TYLCV)	PCR	4	3,000 seeds	TYLCVQ030	€ 207,00
<b>Combination tests:</b>					
<b>2 viruses</b>					
ArMV and TBRV/BRSV	PCR	4	3,000 seeds	COMBITAQ030	€ 245,00
ArMV and TRSV	PCR	4	3,000 seeds	COMBIATQ030	€ 245,00
<i>NEW Feb. 2024</i> PepMV and Pospiviroids	PCR	4	3,000 seeds	COMBIPPQ030	€ 362,00
<i>NEW Jan. 2024</i> PepMV and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITPQ030	€ 249,00
			4,800 seeds	COMBITPQ048	€ 520,00
PepMV and ToRSV	PCR	4	3,000 seeds	COMBIPTOQ030	€ 245,00
Pospiviroids and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPTQ030	€ 366,00
			4,800 seeds	COMBIPTQ048	€ 820,00
			20,000 seeds (20 x 1,000)	COMBIPTQ200	€ 2.260,00
Pospiviroids and ToMMV	PCR	4	3,000 seeds	COMBIPTOMQ030	€ 323,00
			4,800 seeds	COMBIPTOMQ048	€ 860,00
			20,000 seeds (20 x 1,000)	COMBIPTOMQ200	€ 2.260,00
<i>NEW Aug. 2024</i> PSTVd and TBRV/BRSV	PCR	4	3,000 seeds	COMBIPSTBQ030	€ 245,00
PSTVd and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPSTOQ030	€ 249,00
PSTVd and ToRSV	PCR	4	3,000 seeds	COMBITOPSQ030	€ 260,00
<i>NEW July 2024</i> TBRV/BRSV and TSV	PCR	4	3,000 seeds	COMBITOTBQ030	€ 245,00
TBRV/BRSV and ToRSV	PCR	4	3,000 seeds	COMBITBTOQ030	€ 245,00
ToBRFV and ToMMV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITTQ030	€ 249,00
			20,000 seeds (20 x 1,000)	COMBITTQ200	€ 1.660,00
ToBRFV and ToRSV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITOTOQ030	€ 249,00
ToBRFV and TYLCV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITOTYQ030	€ 249,00
<i>NEW July 2024</i> ToMMV and TSV	PCR	4	3,000 seeds	COMBITOTSQ030	€ 245,00
ToMMV and TYLCV	PCR	4	3,000 seeds	COMBITYTOMQ030	€ 245,00
ToRSV and TRSV	PCR	4	3,000 seeds	COMBITOTRQ030	€ 245,00
ToRSV and TYLCV	PCR	4	3,000 seeds	COMBITORTYQ030	€ 245,00



**Solanum lysopersicum, tomato (Continued)**

<b>Virus (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests: (Continued)</b>					
<b>3 viruses</b>					
	ArMV, TBRV/BRSV and TRSV	PCR	4	3,000 seeds	COMBIATTQ030 € 285,00
<i>NEW Mar. 2024</i>	PepMV, Pospiviroïds and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPPTQ030 € 405,00
<i>NEW July 2024</i>	PepMV, PSTVd and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPTPQ030 € 289,00
<i>NEW Jan. 2024</i>	PepMV, ToBRFV and TYLCV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITPTQ030 € 287,00
	Pospiviroïds, ToBRFV and ToMMV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPTTQ030 € 404,00
				4,800 seeds	COMBIPTTQ048 € 940,00
				20,000 seeds (20 x 1,000)	COMBIPTTQ200 € 2.470,00
	Pospiviroïds, ToMMV and ToRSV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITTPQ030 € 362,00
<i>NEW June 2024</i>	TBSV, ToMV and TMV	ELISA	4	3,000 seeds	COMBITTTE030 € 264,00
<i>NEW Apr. 2024</i>	ToMMV, ToRSV and TYLCV	PCR	4	3,000 seeds	COMBITTTQ030 € 285,00
<b>4 viruses</b>					
	PepMV, Pospiviroïds, ToBRFV and ToMMV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPPTTQ030 € 444,00
				20,000 seeds (20 x 1,000)	COMBIPPTTQ200 € 2.670,00
<i>NEW June 2024</i>	PepMV, PSTVd, TBRV/BRSV and ToBRFV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITPTPQ030 € 323,00
	Pospiviroïds, ToBRFV, ToMMV and ToRSV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPTTTQ030 € 443,00
	Pospiviroïds, ToBRFV, ToMMV and TYLCV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITTTPQ030 € 443,00
<b>5 viruses</b>					
<i>NEW June 2024</i>	ArMV, PepMV, TBRV/BRSV, ToRSV and TSV	PCR	4	3,000 seeds	COMBIAPTQ030 € 362,00
<i>NEW Jan. 2024</i>	PepMV, Pospiviroïds, ToBRFV, ToMMV and ToRSV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBITTTPPQ030 € 482,00
<i>NEW Jan. 2024</i>	PepMV, Pospiviroïds, ToBRFV, ToMMV and TYLCV	PCR, incl. possible confirmation PCR	4	3,000 seeds	COMBIPPTTTQ030 € 482,00



**Solanum melongena, eggplant**

<b>Bacteria</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> )	Culture method, incl. possible confirmation PCR	17	10,000 seeds	XCVA100	€ 231,00
			30,000 seeds	XCVA300	€ 307,00
<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (XCV-group) ( <i>X.gardneri</i> , <i>X.euvesicatoria</i> , <i>X.perforans</i> and <i>X.vesicatoria</i> ) (Only possible for seeds not treated with hypochlorite)	SE-PCR	5	10,000 seeds	COMBIXVEPGQ100	€ 285,00

NEW May 2024

<b>Fungi</b>					
Pathogen	Method	Lead time	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Vertillium dahliae</i>	Culture method	14	200 seeds	VDA002	€ 146,00

<b>Nematodes</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<i>Aphelenchoides</i> spp.	Mist method	5	30,000 seeds	APHEM300	€ 59,50
<i>Aphelenchoides fragariae</i>	Mist method	5	30,000 seeds	APHE-FRM300	€ 52,00
<i>Aphelenchoides ritzemabosi</i>	Mist method	5	30,000 seeds	APHE-RIM300	€ 52,00
<i>Aphelenchoides subtenuis</i>	Mist method	5	30,000 seeds	APHE-SUM300	€ 52,00
<i>Ditylenchus</i> spp.	Mist method	5	30,000 seeds	DITYM300	€ 52,00
<i>Ditylenchus destructor</i>	Mist method	5	30,000 seeds	DITY-DEM300	€ 52,00
<i>Ditylenchus dipsaci</i>	Mist method	5	30,000 seeds	DITY-DIM300	€ 52,00
<b>Combination tests:</b>					
<i>Aphelenchoides</i> and <i>Ditylenchus</i>	Mist Method	4	30,000 seeds	COMBIAD300	€ 71,00
<i>Ditylenchus destructor</i> and <i>Ditylenchus dipsaci</i>	Mist Method	5	30,000 seeds	COMBIDDD300	€ 52,00

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Arabis mosaic virus (ArMV)	PCR	4	3,000 seeds	ARMVQ030	€ 207,00
Pepino mosaic virus (PepMV)	PCR	4	3,000 seeds	PEPMVQ030	€ 207,00
			4,800 seeds (12 x 400)	PEPMVQ048	€ 414,00
			20,000 seeds	PEPMVQ200	€ 1.450,00
Pospiviroids (CEVd, CLVd, MPVd, PCFVd, PSTVd, TASVd, TCDVd and TPMVd)	PCR	4	3,000 seeds	COMBIPOSPIQ030PA	€ 285,00
			4,800 seeds (12 x 400)	COMBIPOSPIQ048PA	€ 750,00
			20,000 seeds	COMBIPOSPIQ200PA	€ 2.060,00
Tobacco rattle virus (TRV)	PCR	4	3,000 seeds	TRVQ030	€ 207,00
Tobacco ringspot virus (TRSV)	PCR	4	3,000 seeds	TRSVQ030	€ 207,00
Tobacco streak virus (TSV)	PCR	4	3,000 seeds	TSVQ030	€ 207,00

NEW Jan. 2024



**Solanum melongena, eggplant (Continued)**

<b>Virus (Continued)</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
Tomato black ring virus/Beet ringspot virus (TBRV/BRSV)	PCR	4	3,000 seeds	TBRVQ030	€ 207,00
Tomato ringspot virus (ToRSV)	PCR	4	3,000 seeds	TORSVQ030	€ 207,00
Tomato yellow leaf curl virus (TYLCV)	PCR	4	3,000 seeds	TYLCVQ030PA	€ 207,00
<b>Combination tests:</b>					
<b>2 viruses</b>					
ArMV and TBRV/BRSV	PCR	4	3,000 seeds	COMBITAQ030	€ 245,00
ArMV and TRSV	PCR	4	3,000 seeds	COMBIATQ030	€ 245,00
TBRV/BRSV and TSV	PCR	4	3,000 seeds	COMBITOTBQ030	€ 245,00
TBRV/BRSV and ToRSV	PCR	4	3,000 seeds	COMBITBTOQ030	€ 245,00
ToRSV and TRSV			3,000 seeds	COMBITOTRQ030	€ 245,00
<b>3 viruses</b>					
ArMV, TBRV/BRSV and TRSV	PCR	4	3,000 seeds	COMBIATTQ030	€ 285,00

NEW July 2024

**Solanum sisymbriifolium, sticky nightshade**

<b>Virus</b>					
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test code	Test rate (ex. base rate page 6)
<b>Combination tests:</b>					
Pospiviroids (CEVd, CLVd, MPVd, PCFVd, PSTVd, TASVd, TCDVd and TPMVd)	PCR	4	3,000 seeds	COMBIPOSPIQ030PA	€ 285,00
			4,800 seeds (12 x 400)	COMBIPOSPIQ048PA	€ 750,00
			20,000 seeds	COMBIPOSPIQ200PA	€ 2.060,00
ToRSV and TRSV	PCR	4	3,000 seeds	COMBITBTOQ030	€ 245,00

**Tropaeolaceae**

Such as *Tropaeolum*

<b>Virus</b>				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, BBWV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-D03, TSWV, TRV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
VeLV	PCR	4	Max. 25 leaves	€ 57,00



## Turneraceae

*Such as Turnera*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Urticaceae

*Such as Pilea*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40

## Verbenaceae

*Such as Aloysia, Caryopteris, Clerodendron, Lantana, Lippia, Verbena*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, AnFBV (AFMoV), BBWV, CMV, INSV, Potyvirus, ScrMV, TMV-WU1, ToMV-DO3, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40
BacV	PCR	4	Max. 25 leaves	€ 57,00
Pospiviroids (CEVd, CLVd, MPVd, PCFVd, PSTVd, TASVd, TCDVd and TPMVd)	PCR, incl. possible confirmation PCR	4	Max. 25 leaves	€ 73,50
			Max. 200 leaves	€ 102,00

## Violaceae

*Such as Viola*

Virus				
Pathogen	Method	Lead time (more info on page 13)	Sample size	Test rate per virus (ex. base rate page 6)
AltMV, AMV, ArMV, CMV, INSV, Potyvirus, TMV-WU1, ToMV-DO3, TRV, TSWV	ELISA	4	1-2 leaves/cuttings, in total ca. 4 cm <sup>2</sup>	€ 4,40