

GEVES PRICE LIST 2025

*vegetable, ornamental
aromatic, fruit*

Variety and Seed Study and Control Group



GEVES

Expertise & Performance



www.geves.fr



GEVES

Expertise & Performance

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GEVES: A unique & official organisation in France

GEVES is a **Public Interest Group** with three founding partner organisations:



✓ The French National Research Institute for Agriculture, Food and Environment (INRAE) - 60%



✓ The French ministry of Agriculture, Food Sovereignty and Forestry (MASAF) - 20%



✓ The French Interprofessional Organisation for Seeds and Plants (SEMAE) - 20%

This unique set-up ensures GEVES's **independence** and **neutrality** in carrying out its activities in accordance with its regulatory and official missions and mandates. The union of state, Research and sector expertise ensures that all aspects of the sector are fully taken into account.

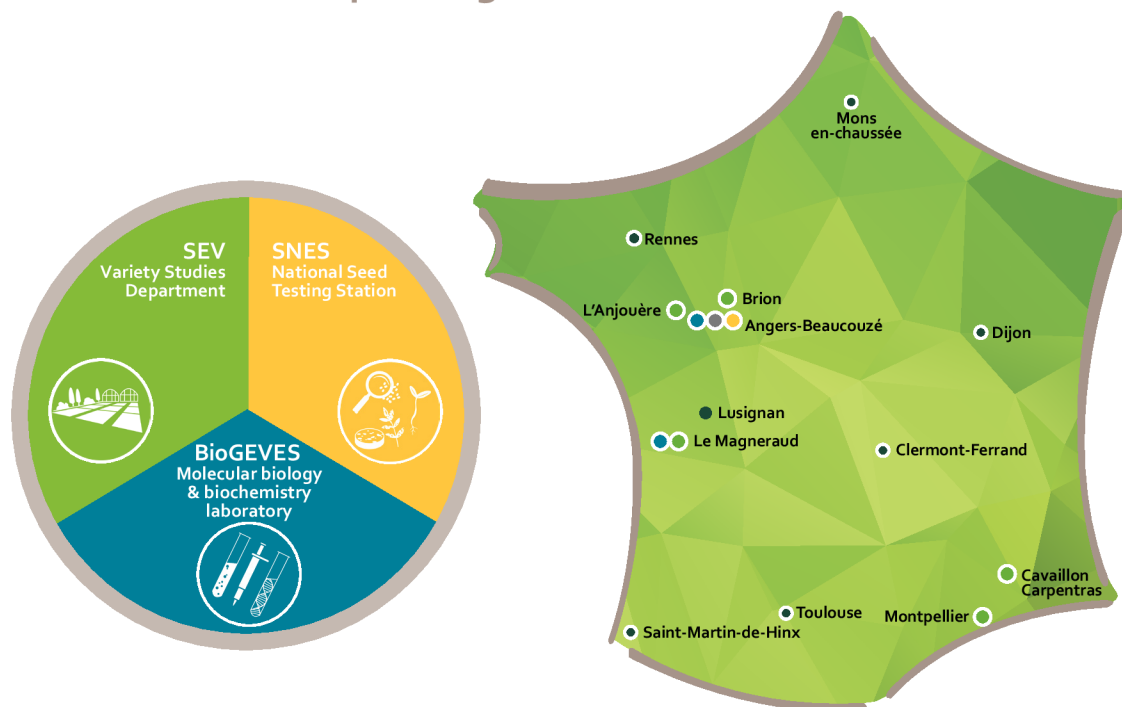
Governance of GEVES

GEVES's Executive Board of Directors is composed of 14 members:

- 6 representatives from INRAE
- 2 representatives from the Ministry of Agriculture and Food
- 2 representatives from GNIS
- 2 staff representatives from GEVES
- The President of the CTPS

as well as a government controller (Ministry of Research) and a State Controller.

Organisation of GEVES's operating divisions



GEVES's missions

GEVES has official, regulatory missions and carries out testing activities and methodological development which is necessary for:

- ▶ National listing of new varieties in the Official French Catalogue
- ▶ Plant variety protection
- ▶ Official seed testing as part of its NRL mandates for seeds, GMOs. and plant health (RNQP-matrix seeds)

GEVES is also responsible for the national coordination of plant genetic resources on behalf of the Ministry of Agriculture.

GEVES is the National Reference Laboratory for:

- ▶ GMO detection in maize (seed) and soya, rapeseed and flax (seed and vegetative parts) by Decree of 19 octobre 2015
- ▶ quality testing of seeds and propagating material by Decree of 1 March 2017
- ▶ plant health by Decree of 20 November 2020

GEVES is an approved laboratory for certain seed health quality tests

GEVES is accredited by ISTA for all species. It carries out official testing, particularly for seed exports: Orange and Blue International Certificates (OIC and BIC).

- ▶ GEVES makes its specialised expertise openly available to the plant and seed sectors, providing high-quality services to a range of private customers, results that may be used for phytosanitary certificates or passports.

Activities

To carry out its missions, GEVES performs a wide range of activities:

- ▶ Description of varieties and evaluation of genetic progress
- ▶ Quality testing for seeds and seedlings
- ▶ Methodological research
- ▶ Management of plant genetic resources
- ▶ Training courses
- ▶ Exams
- ▶ Consulting and expertise
- ▶ International cooperation
- ▶ Monitoring of the French network of seed testing laboratories
- ▶ Organisation of Proficiency Tests (PT)
- ▶ Communication
- ▶ Expertise
- ▶ Inoculum production
- ▶ Analysis to evaluate the efficiency of treatment products
- ▶ Evaluation of varieties

FOCUS



Quality, Recognition & Accréditation

GEVES benefits from a global and harmonised Quality Management System and is recognised as follows:

- ▶ Certification ISO 9001 – BioGEVES and VCUS variety testing (Value for Cultivation, Use and Sustainability) since 2009
- ▶ Accreditation of GEVES's SNES and BioGEVES laboratories by COFRAC according to ISO 17025 standard:
 - GEVES Beaucauzé: COFRAC N°1-1316 since 2002.
 - GEVES Le Magneraud: COFRAC N°1-6176 since 2004.
- ▶ Accreditation by ISTA since 2001 (N°FRDL0200) for seed testing

Place an order ●

Seed quality testing at

SNES



ORDER YOUR ANALYSE ONLINE

Enter your order on <https://dsn.geves.fr/dsn2>
Join the order summary and attach it to your sample

For faster processing of your request, please order online



ORDER YOUR ANALYSE BY POST

Complete the form corresponding to your order (OIC request or analysis order form) and join the form to your sample



SEND YOUR SAMPLES

GEVES - Service clients SNES

GEVES - Service clients SNES
3 rue Henri Becquerel - CS 90024
49071 Beaucouzé Cedex
FRANCE

Biomolecular and biochemical testing at

BioGEVES



ORDER YOUR ANALYSE ONLINE

biogeves.analyses@geves.fr



SEND YOUR SAMPLES

Detection unit

BioGEVES
25 rue Georges Morel - CS 90024
49071 Beaucouzé Cedex
FRANCE

Genotyping/biochemistry unit

BioGEVES - Le Magneraud
CS 40052 - Saint-Pierre d'Amilly
17 700 Surgères
FRANCE

Variety testing at **SEV**



REQUEST A DENOMINATION TEST

christelle.godin@geves.fr



REQUEST A FIELD TEST DUS (Distinction Uniformity Stability)

celine.delarue@geves.fr

GEVES - Service clients SEV
25 rue Georges Morel - CS 90024
49071 Beaucouzé Cedex
FRANCE

Your contacts at GEVES

To contact a GEVES staff member by email: firstname.surname@geves.fr - area code number: +33(0)

Sector support :
Training, ILC,
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Thibaut
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Virginie
Bettker



Aurélie
Robert



Annie
Saussaye

- Information enquiries
- Analysis tracking
- Quotes
- Claims

SNES Direction:



Director
Clotilde Polderman-Roussille



Assistant
Estelle Bertel

SNES Technical contacts:



Head of customer service and sampling
Alice Richard Jolly



Head of Physical Analysis Laboratory
Aurélie Charrier

- Radiography 2D/3D
- Purity
- Moisture content
- Botanic, Micro-cleaning

Sherif Hamdy
Philippe Pannetier
Céline Herbert
Diogo Tobolski



Head of Germination Laboratory
Sylvie Ducournau

- Cereals, Oilseeds, Protein crops species
- Vegetables, Ornamentals, Forages, Industrials species

Valérie Blouin
Pierre Soufflet



Head of Pathology Laboratory
Jaiana Malabarba

- Seed health
- Varietal resistance
- Seed treatment evaluation
- Inoculum production

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Sophie Perrot
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Thomas Lévêque

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Arnaud Remay
05 17 06 96 17

SEV :



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SEV customer service



Céline Delarue
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Field trials



Christelle GODIN
02 41 22 86 93
Denomination tests

Supply of samples to the SNES

The information listed on the SNES analysis order form is essential for registering samples.

In the case of treated seeds, the commercial name of the treatment must be declared. No treated samples will be accepted for analysis without this information.

No analysis will be performed on GMO seeds.

The sample size indicated is the minimum size set by the method (larger sizes can be offered).

If you do not have the quantity requested and wish to have the analysis done on all the seeds sent, you must indicate this in your request.

Otherwise, the analysis will be put on hold, and we will contact you. You can then:

- send a new sample
- give us your agreement to carry out the analysis on all the seeds supplied.

Unless indicated differently, the sample size to be provided is expressed in number of seeds.

Please pack your seeds in anonymised bags that are suitable for the quantity of seeds sent, properly sealed and suitable for handling and storage in the laboratory.

Prefer paper packaging rather than plastic in order to limit static electricity.

Ensure that samples are adequately protected during transport. Any sample opened or pierced before analysis will not be accepted.



The SNES always works in compliance with the ISTA Rules, offering the same level of reliability of results, whatever the certificate requested.

Physical quality: provide the minimum weights prescribed by the ISTA Rules, chapter 2.5.4.5. If a counting analysis is requested, provide the weight listed in table 2C column 3. If more than one counting analysis is requested on the same submitted sample, provide the quantities required to perform all the countings.

If only a purity test is requested, provide the seed quantities for the submitted sample according to the following table:

Weight of working sample for purity analysis alone (Table 2C column 4)	Minimum weight of submitted sample for purity analysis (Table Column 4)
Between 500g and 1000g	Minimum working sample weight for purity analysis + 100g
Under 500g	2,5 times the minimum weight of the working sample for purity analysis.

For moisture analysis, the maximum time for receiving the submitted samples is 14 days after seed lot sampling.

Physiological quality: Germination test is carried out on a sample of 400 seeds in accordance with the ISTA Rules. Tests on 200 or 100 seeds are also possible depending on the need for precision. The precision of analyses is indicated in the ISTA tolerance tables.

If a germination test is requested without any specific purity analysis, pure seeds are sorted before the germination test. This analysis is not invoiced except for Grasses (*Poaceae*). This step is an integral part of the ISTA method for the evaluation of germinative faculty.

Quantity to provide for substrate checks (the retest is included in the quantities):

	Top of paper	Rolled	Pleated paper	Sand	Organic growing media
GE-SUB-1	20 sheets	12 sheets	12 sheets	10 kg	8 kg
GE-SUB-2	20 sheets	10 sheets	10 sheets	1 kg	1 kg
GE-SUB-3	16 sheets	10 sheets	2 sheets	1 kg	1 kg
GE-SUB-4	96 sheets	16 sheets	16 sheets	20 kg	10 kg

Supply of samples to the SNES



Submitted sample: Please provide one sample per test requested with the corresponding quantity.

Method for requesting OIC: an ISTA method will be chosen if it exists.

Virology: Certain types of treatment may affect the analysis, seeds should therefore be sent untreated, please indicate this information on your order form.

Mycology:

Medium tests

This test is performed by detection on medium according to the following criteria:

- Without superficial disinfection for most species. If the presence of saprophytes is too high the result will be "undetermined", a new test with superficial disinfection will be proposed.
- With superficial disinfection for species that are known to have saprophytes that can compromise the analysis.

For treated seeds, a test without superficial disinfection is indicated in the price list and will be chosen.

Result indication

As the method allows the detection of several pathogens simultaneously, the main pathogens are in bold in this price list and will always be indicated on the certificate. For pathogens not in bold they will be indicated on the certificate if their presence is high (> 5%) or if they were asked when the analyses were requested.

For any request for detection of other fungi, please contact SNES.

The nomenclature of fungi evolves; we therefore modify the names of pathogens to follow it. We will indicate any pathogen synonyms in brackets in the price list and test results.

In the nomenclature, the genus name is followed by the species. If it is not possible to identify the species, "sp." is indicated, meaning "species not identified".

Special case of *Fusarium*: some species-specific *Fusarium* will remain denominated with the species name (e.g. *F. oxysporum* on cucurbits). The other species will be grouped together by section (see table below).

Current sections	Main species
<i>Roseum</i>	<i>F. avenaceum</i>
<i>Discolor</i>	<i>F. culmorum</i> , <i>F. graminearum</i> (<i>Gibberella zeae</i>), <i>F. sambucinum</i> , <i>F. crookwellense</i>
<i>Arthrosporiella</i>	<i>F. incarnatum</i> (<i>Fusarium semitectum</i>)
<i>Sporotrichiella</i>	<i>F. poae</i> , <i>F. tricinctum</i> (<i>Gibberella tricincta</i>), <i>F. sporotrichioides</i> , <i>F. langsethiae</i>
<i>Gibbosum</i>	<i>F. equiseti</i> (<i>Gibberella intricans</i>), <i>F. acuminatum</i> (<i>Gibberella acuminata</i>)
<i>Liseola</i> ou complexe <i>G. fujikuroi</i>	<i>Gibberella fujikuroi</i> (<i>F. verticillioides</i> , <i>F. subglutinans</i>), <i>F. proliferatum</i>
<i>F. elegans</i>	<i>F. oxysporum</i>
<i>Martiella</i> - <i>Ventricosum</i>	<i>F. solani</i>

Sections correspond to the classification of Nelson *and al.* ; 1983, amended by Burgess *and al.* ; 1994 and updated with molecular techniques (Leslie et Summerell ; 2006, Carter *and al.* ; 2000, Aoki et O'Donnel ; 1999, Benyon *and al.* ; 2000).

Order an analysis

To SNES	
For GEVES or COFRAC certificate ¹	
	Price
By paper order form	
Handling of the request per submitted sample and issuing of a definitive GEVES or COFRAC certificate, in French or English.	10.10
By internet on DSN website	
Handling of the request per submitted sample and issuing of a definitive GEVES or COFRAC certificate, in French or English.	8.50
Specific handling	
Handling of the request per submitted sample sent in several packaging or weighing more than 2 kg requiring the preparation of a working sample, and issuing of a definitive SNES or COFRAC certificate, in French or English.	42.80
Supplementary certificates, specific presentation of results, priority, request for changes	
Duplicate certificate for adding manual singature and buffer, in French or English.	3.20
Summary table of results, or specific presentation of results.	32.70
Raw results on .csv file (request must be entered online on DSN website).	0.00
Priority processing, per sample.	19.90
Modification of information on a certificate (after checking the feasibility).	38.00

¹ A GEVES certificate is issued by default, except for COFRAC accredited tests for which a COFRAC certificate will be issued.

For an international certificate	
	Price
Paper version	
Handling of each submitted sample and issuing of an Orange or Blue International Certificate, in French or English, with priority being given to the related analyses.	41.00
Provisional international certificate, in French or English.	11.00
Duplicate international certificate, in French or English.	11.00
Supplementary certificates and request for changes	
Adding additional certificates (paper version only) or modification of information on an international certificate (after checking the conformity with ISTA rules).	38.00

To BioGEVES	
Handling and results	
	Price
Handling	
Handling of the sample for treated seeds.	59.00
Results	
Duplicates analysis certificate except photography.	2.90
New edition of result certificate.	29.20
Specific presentation of results - Contact BioGeves.	/

SEED QUALITY

Physiological quality

		Size	Duration	Price
Complementary determinations in addition to the germination test				
Detailed description of seedlings and seeds on 400 seeds.	GE-FG-DET	1 250	/	43.30
Detailed description of seedlings and seeds on 200 seeds.	GE-FG-DET2	500	/	21.60
Percentage of a particular type of seedling.	GE-FG-PCPL	/	/	24.00
Provision of the result of repetitions.	GE-FG-REP	/	/	13.90
Additional testing time required				
Additional duration of 7 days for a germination test on 400 seeds.	GE-FG-7S4	1 250	/	16.80
Additional duration of 14 days for a germination test on 400 seeds.	GE-FG-14S4	500	/	33.90
Additional duration of 7 days for a germination test on 200 seeds.	GE-FG-7S2	500	/	8.50
Additional duration of 14 days for a germination test on 200 seeds.	GE-FG-14S2	500	/	17.00
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	9.80
Verification of species on pelleted seeds, when only a purity test is requested.	GE-VERIF	/	/	25.00
Tetrazolium viability test (excluding ornamental and fruit species, see p.61) - For results within a week, reception of seeds on Tuesday at the latest.				
Tetrazolium test on 400 seeds.	GE-TZ-1	500	/	181.00
Tetrazolium test on 200 seeds.	GE-TZ-2	300	/	121.00
Tetrazolium test on 100 seeds.	GE-TZ-3	200	/	84.00
Energy				
Germination energy (intermediate counting; germination capacity supplement). The date of counting for the energy varies according to the species.	GE-EG	500	/	20.70
Vigour tests				
Cold-test on 400 seeds.	GE-CO	1 250	/	72.00
Cold-test on 200 seeds.	GE-CO2	500	/	46.10
Accelerated ageing of 200 seeds including germination capacity.	GE-VIEI-2	500	/	94.00
Controlled deterioration of 200 seeds including germination capacity - Tomato .	GE-DET-1 NEW	500	/	94.00
Conductivity test on 200 seeds on ISTA species. <i>The moisture content of seeds should be between 10 and 14 %, sample must be send in a sealed foil sachet with the indication of the water content, otherwise it would be determined by us before the test and invoiced (see test TE-SN-01).</i>	GE-CON-GLO	500	/	59.00
Additional cost for a conductivity test on a treated seed sample.	GE-CON-SUP NEW	/	/	10.00
Treatment of seeds				
Treatment of seeds to be performed by SNES.	GE-TRAIT	/	/	24.00
Seeds do not undergo fungicide treatment before the germination test unless specifically requested (except for Beet).				
Substrate checks				
Determination of the water holding capacity of a substrate including moisture content.	GE-SUB-1	See p.7	/	96.00
Determination of the pH of a substrate.	GE-SUB-2	See p.7	/	61.00
Determination of the conductivity of a substrate.	GE-SUB-3	See p.7	/	61.00
Assessment of the innocuity of a substrate (determination of the % of seedlings intoxicated by the substrate, on 2 sensitive species).	GE-SUB-4	See p.7	/	139.00
Viability determination of seeds in a soil or a substrate.	GE-SUB-5		Contact SNES	
Automated germination kinetics by image analysis				
Germination kinetics by image analysis (average rate of germination, kinetic curve).	GE-CI		Contact SNES	
Supply of detailed data on imbibition and early elongation of the root.	GE-CI-4		Contact SNES	
Supply of seeds images during germination.	GE-CI-5		Contact SNES	

Seed health - Prior operations

		Size	Duration	Price
Thousand Seed Weight (TSW), if not indicated on the request or incorrect for bacteriology, mycology and virology tests.	PA-MMS	/	/	37.40

Bacteriology - Uncoated seeds only				
		Size	Duration	Price
Supplement fee for counting of colonies				
1 pathogen in 5 000 seeds.	PA-BA-19	5 000	/	26.00
1 pathogen in 30 000 seeds.	PA-BA-20	30 000	/	63.00
More than 1 pathogen in 5 000 seeds.	PA-BA-81	5 000	/	40.00
More than 1 pathogen in 30 000 seeds.	PA-BA-82	30 000	/	119.00

Mycology - See p.8 "Seed health"				
		Size	Duration	Price
Fusarium spp.				
Identification of <i>Fusarium</i> species in addition to detection test.	PA-ID-FUS	/	19 days	276.00
Helminthosporium spp. (Pyrenophora spp.)				
Identification of species of <i>Helminthosporium</i> in addition to detection test.	PA-ID-HEL	/	/	134.00
Supplement for spore counting, washing methods				
Counting by classes (0;1-10;11-100;>100).	PA-MY-DCLA	/	/	67.00
Counting by unit.	PA-MY-DEN	/	/	109.00

Nematology				
		Size	Duration	Price
<i>Heterodera</i> group <i>schachtii</i>, <i>Heterodera</i> group <i>goettingiana</i>, <i>Heterodera</i> group <i>avenae</i>.				
Detection and identification on soil samples.	PA-NE-SOL1	300 g	30 days	211.00

Other tests				
		Size	Duration	Price
Identification of pathogens isolated and provided on medium - Supply 2 boxes/isolates.	PA-AD-IP	/	19 days	52.00
Isolation of strains from symptoms.	PA-ISOLEM	/	/	52.00
Isolation of strains from seeds.	PA-ISOSEM	/	/	111.00
Identification of pathogens on plant material.			Contact SNES	
Feasibility on a case-by-case basis. Prices below are indicated for information, they will be charged depending on the observed symptoms.				
Handling of the sample.	PA-DI-PEC	/	/	59.00
Identification based on symptoms.	PA-DI-MICR	/	/	101.00
Mycological identification after incubation.	PA-DI-MY	/	/	200.00
Bacteriological identification after incubation.	PA-DI-BA	/	/	104.00
Confirmation by pathogenicity test.	PA-DI-PP	/	/	127.00
Virological identification by immunological test.	PA-DI-ELIS	/	/	224.00
Virological identification virologic by biotest.	PA-DI-IND	/	/	71.00
PCR.	PA-DI-PCR	/	/	125.00

EVALUATION OF VARIETIES				
Determination of the identity and the varietal purity				
		Size	Duration	Price
Standard protocol.	SEV-CV	/	/	360.00
Specific study.	SEV-CV1			Contact SEV

Genotyping by molecular biology				
		Size	Duration	Price
Varietal identity control - SSR.	BI-G-BM-SSR-CID-1		Contact BioGEVES	
Varietal comparison - SSR.	BI-G-BM-SSR-COMP		Contact BioGEVES	
Genetic purity analysis - SSR - 180 seeds.	BI-G-BM-SSR-PU-180		Contact BioGEVES	
Genetic purity analysis - SSR - 8 x 10 seeds.	BI-G-BM-SSR-PUR-10		Contact BioGEVES	
Seed mixture detection.	BI-G-BM-SSR-PUR-40		Contact BioGEVES	

Genotyping by molecular biology

		Size	Duration	Price
Varietal purity analysis - SSR - 90 seeds.	BI-G-BM-SSR-PUR-90		Contact BioGEVES	
Varietal description - SSR.	BI-G-BM-SSR-DVAR		Contact BioGEVES	
DNA extraction.	BI-G-BM-EXT		Contact BioGEVES	
Varietal identity control - SNP.	BI-G-BM-SNP-CID		Contact BioGEVES	
Hybrid Conformity - SNP.	BI-G-BM-SNP-CONF		Contact BioGEVES	
Varietal comparison - SNP.	BI-G-BM-SNP-COMP		Contact BioGEVES	
Genetic purity analysis - SNP.	BI-G-BM-SNP-PUR		Contact BioGEVES	
Varietal description - SNP.	BI-G-BM-SNP-DVAR		Contact BioGEVES	
Standardization of DNA concentration & distribution in plate.	BI-G-CUST-GEN-3		Contact BioGEVES	
Analysis of genetic diversity.	BI-G-CUST-GEN-2		Contact BioGEVES	
Migration run - Capillary sequencer - plate.	BI-G-BM-RUN		Contact BioGEVES	
DNA assay.	BI-G-BM-DOS		Contact BioGEVES	
Development of genotyping method.	BI-G-METH		Contact BioGEVES	
Customised genotyping.	BI-G-CUST		Contact BioGEVES	

Technological quality: biochemicals tests

		Size	Duration	Price
SPEC - custom analysis.	BI-B-CUST-DEV-SPEC		Contact BioGEVES	
RMN - custom analysis.	BI-B-CUST-DEV-RMN		Contact BioGEVES	
CPG - custom analysis.	BI-B-CUST-DEV-CPG		Contact BioGEVES	
NIRS - custom analysis.	BI-B-CUST-DEV-NIRS		Contact BioGEVES	
HPLC - custom analysis.	BI-B-CUST-DEV-HPLC		Contact BioGEVES	
Tannin content (assay by spectrophotometry).	BI-B-SPEC-TAN-GEN		Contact BioGEVES	
Fatty acid composition.	BI-B-CPG-AG-GEN		Contact BioGEVES	
Glucosinolate content (HPLC).	BI-B-HPLC-GLU-GEN		Contact BioGEVES	
Antitryptic activity.	BI-B-SPECT-FAT-GEN		Contact BioGEVES	
Glucosinolate content (NIRS).	BI-B-NIRS-NGLS		Contact BioGEVES	
Spectrochlorophyll.	BI-B-SPEC-CHLO		Contact BioGEVES	
Customised biochemical molecule assays (NIRS model development, analytical chemistry...).	BI-B-CUST		Contact BioGEVES	
Oil content (NMR).	BI-B-RMN-H		Contact BioGEVES	
Water content (NMR).	BI-B-RMN-E		Contact BioGEVES	
Phytates by spectrophotometry.	BI-B-SPEC-PHY		Contact BioGEVES	

Other tests

		Size	Duration	Price
WDV virus detection test by PCR.	BI-D-VIR-WDV		Contact BioGEVES	

Annual subscription to the variety denomination class test

			Price
All species - 10 tests.	SEV-DENOS-10		225.00
All species - 20 tests.	SEV-DENOS-20		425.00
All species - 50 tests.	SEV-DENOS-50		1000.00
All species - 100 tests.	SEV-DENOS-100		1925.00
All species - 200 tests.	SEV-DENOS-200		3760.00

PUBLICATIONS - Contact SNES

Technical sheet for analysis of specific purity and counting of all other seeds

Purity and determination of other seeds by number: methodology.

AP-M-1

Identification data sheet of seeds and other impurities

Echinochloa crus-galli, *Echinochloa colona*, *Panicum capillare*, *Panicum maximum*, *Setaria pumila*, *Setaria veridis*.

AP-A-01

Identification data sheet of seeds and other impurities <i>Avena fatua</i> - <i>Avena sativa</i> .	AP-A-02
Germination analysis method sheet Germination method of different species.	GE-M-ESP
Identification data sheet of seeds and other impurities Polygonaceae (<i>Persicaria maculosa</i> , <i>Persicaria lapathifolia</i> , <i>Fallopia convolvulus</i> , <i>Polygonum aviculare</i> , <i>Rumex</i> sp., <i>Rumex acetosella</i> , <i>Rumex maritimus</i>).	AP-A-03
<i>Chenopodium</i> sp., <i>Atriplex</i> sp., <i>Amaranthus</i> sp., <i>Reseda</i> sp., <i>Myosotis</i> sp.	AP-A-04
Asteraceae (<i>Anthemis arvensis</i> , <i>Glebionis segetum</i> , <i>Chicorium</i> sp., <i>Tripleurospermum inodorum</i> , <i>Helminthotheca echiioides</i> , <i>Lapsana communis</i> , <i>Lactuca sativa</i> , <i>Sonchus</i> spp., <i>Cirsium arvense</i> , <i>Cirsium vulgare</i> , <i>Centaurea cyanus</i>).	AP-A-06
<i>Cuscuta</i> spp.	AP-P-1
<i>Claviceps purpurea</i> - <i>Sclerotinia sclerotiorum</i> .	AP-P-2
Self-control kit A tool to help train and maintain the skills of his team.	KIT-AUTO
Identification data sheet of fungal pathogens <i>Alternaria linariae</i> , <i>A. alternata</i> , <i>A. brassicae</i> , <i>A. brassicicola</i> , <i>A. cucumerina</i> , <i>A. dauci</i> , <i>A. japonica</i> , <i>A. linicola</i> , <i>A. padwickii</i> , <i>A. petroselini</i> , <i>Alternaria aster helianthi</i> , <i>Ascochyta medicaginicola</i> , <i>Bipolaris oryzae</i> , <i>Botryotinia squamosa</i> , <i>Botrytis cinerea</i> , <i>Ciborinia allii</i> , <i>Colletotrichum graminicola</i> , <i>C. truncatum</i> , <i>Complexe Phomopsis</i> , <i>Didymella pisi</i> , <i>Exserohilum turcicum</i> , <i>Itersonilia perplexans</i> , <i>Phomopsis helianthi</i> , <i>Sarocladium strictum</i> , <i>Sclerotinia sclerotiorum</i> .	PA-T-PATH
Identification data sheet of nematodes <i>Ditylenchus dipsaci</i> , <i>D. destructor</i> , <i>Aphelenchoides besseyi</i> , <i>A. fragariae</i> .	PA-T-NEM
Identification data sheet of fungal saprophytes Sheet containing the main fungal saprophytes present in analysis on media.	PA-T-SAPR

Seed mixture species

SEED QUALITY

Physical quality

Size Duration Price

Purity analysis test and determination of the composition of a seed mixture of species - Only on naked seeds

Less than 4 components WITH declared composition ² .	PU-MEL-01	/	60 days	534.00
From 4 components WITH declared composition ² .	PU-MEL-02		Contact SNES	
WITHOUT declared composition.	PU-MEL-03	/	60 days	877.00

Preparation of pure seed for germination testing

Seed mixture (less than 4 components) WITH declared composition ² .	PU-PR-19	/	/	220.00
From 4 components WITH declared composition ² .	PU-PR-22		Contact SNES	
WITHOUT declared composition.	PU-PR-19-1	/	/	528.00
Preparation of pure seeds in dragees on coated seed mixture.	PU-PR-19-2	/	/	37.30

² Provide the % of species in the seed mixture.

Physiological quality ³

Germination test on 400 seeds

Species mixture by component.	GE-FG-19-4
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Germination test on 200 seeds

Species mixture by component.	GE-FG-19-2
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³ See details of price and size in the chapter of the species. All the species of the seed mixture will be analyzed whatever is the proportion, except opposite request.

SEED QUALITY

Physical quality

		Size	Duration	Price
Calibration - Provide a 250g watertight sample for naked seeds or 25 000 coated seeds.				
ISTA method (Denker device): inferior or equal to 6 grills.	MN-DK-CAL1	/	/	43.00
ISTA method (Denker device): superior or equal to 6 grills.	MN-DK-CAL2	/	/	56.00
Thousand-seed weight				
Thousand-seed weight on pure seeds on purity test performed by SNES.	MMS-01	/	/	34.00
Purity analysis test				
Purity - Vegetables	PU-IS-18	ISTA weight	/	34.50
Percentage of a specific type of other seeds. Specify the species to be mentioned.	PU-CONS1	/	/	9.40
Percentage of a specific type of inert materials. Specify the species to be mentioned.	PU-CONS2	/	/	9.40
Supplement for purity analysis if received as raw seeds.	PU-LB-SUP		Contact SNES	
Counting of all other seeds				
Full counting - Vegetables.	SP-IS-17	ISTA weight	/	144.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	14.00
Limited counting of all other seeds				
Determination of a specific kind of other seeds, by number. Specify the species to be mentioned.	SP-CONS-1 NEW	/	/	9.40
Determination of a specific kind of inert materials, by number. Specify the species to be mentioned.	SP-CONS-2 NEW	/	/	9.40
Searching of 1 to 4 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-01	ISTA weight	/	66.00
Searching of 5 to 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-02	ISTA weight	/	106.00
Searching of more than 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-19		Contact SNES	
Searching of <i>Orobanche</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-ORO	ISTA weight	/	78.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	78.00
Searching of <i>Orobanche</i> sp. and <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-ORO-STR	ISTA weight	/	114.00
Tests on coated seeds				
Purity on coated seeds.	PU-IS-21	2 500	/	36.00
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method (except Soybean).	TE-SN-01	ISTA weight	/	21.50
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	36.00
Insects detection				
Insect detection in a seed sample.	ID-INS-01 NEW	/	/	84.00
Detection and identification of regulated bruchids in a sample - Beans.	ID-BRUCHE NEW	/	/	84.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Vegetables (except specific species below).	GE-FG-18-4	1 250	/	68.00
Garden pea.	GE-FG-23-4 NEW	1 250	/	62.00
Celery, Faba bean, Corn salad, Parsley. The germination capacity tests of corn salad seeds are carried out using several methods on 400 seeds: 2 methods with and without sodium hypochlorite disinfection from January 1st to May 31st and 2 methods with and without sodium hypochlorite disinfection and gibberellin from June 1st to December 31st.	GE-FG-22-4 NEW	1 250	/	75.00
Germination test on 200 seeds				
Vegetables (except specific species below).	GE-FG-18-2	500	/	54.00
Garden pea.	GE-FG-23-2 NEW	500	/	52.00

Physiological quality

		Size	Duration	Price
Germination test on 200 seeds				
Celery, Faba bean, Corn salad, Parsley.	GE-FG-22-2 NEW	500	/	60.00
Germination test on 100 seeds				
Vegetables (except Celery, Faba bean, Corn salad, Parsley, Garden pea).	GE-FG-18-1	500	/	32.60
Additional				
Additional cost for manual sowing of fragile seeds of bean.	GE-FG-HAR	/	/	7.30
Germination tests on bulbs and bulblets				
On 400 seeds.	GE-BULB-4	1 250	/	157.00
On 200 seeds.	GE-BULB-2	500	/	127.00
Early estimation of germination analysis on 400 seeds				
Carrot.	GE-FGPR-CA NEW	/	/	39.00
Lettuce specific cold-test				
On 400 seeds.	GE-EGFG-4	1 250	/	96.00
On 200 seeds.	GE-EGFG-2	500	/	56.00
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	9.80
Vigour tests				
Conductivity test on 200 seeds on ISTA species. <i>The moisture content of seeds should be between 10 and 14 %, sample must be send in a sealed foil sachet with the indication of the water content, otherwise it would be determined by us before the test and invoiced (see test TE-SN-01).</i>	GE-CON-GLO	500	/	59.00
Additional cost for a conductivity test on a treated seed sample.	GE-CON-SUP NEW	/	/	10.00
Controlled deterioration of 200 seeds including germination capacity - Tomato .	GE-DET-1 NEW	500	/	94.00
Determination of the rate of usable Tomato plants				
On 400 seeds.	GE-TX-PL-2	500	/	109.00
On 200 seeds.	GE-TX-PL-1	300	/	83.00
Treatment of seeds				
Treatment of seeds to be performed by SNES. Seeds do not undergo fungicide treatment before the germination test unless specifically requested (except for Beet).	GE-TRAIT	/	/	24.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Eggplant, Pepper, Tomato - Detection of 1 pathogen				
<i>Pseudomonas syringae</i> pv. <i>tomato</i> (Pst)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-25	30 000	36 days	228.00
<i>Xanthomonas</i> spp. pathogenic on Tomato and Pepper (X spp)				
Agar method + identification of strains by PCR in case of suspect colonies (ISF).	PA-BA-26	30 000	34 days	255.00
Agar method + identification of strains by PCR in case of suspect colonies (ISF). Analyse done with 1 subsample on 10 000 seeds maximum.	PA-BA-26-1	Max 10 000	34 days	177.00
<i>Pseudomonas corrugata</i> (Pc)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-92	30 000	36 days	307.00
Eggplant, Pepper, Tomato - Detection of 2 pathogens				
Pst + X spp				
Agar method + pathogenicity test and/or identification of strains by PCR in case of suspect colonies (ISF for <i>Xanthomonas</i>).	PA-BA-40	30 000	40 days	360.00
Pst + Pc				
Agar method + identification of strains by pathogenicity test in case of suspect colonies.	PA-BA-127	30 000	36 days	311.00
Eggplant, Pepper, Tomato - Supplement fee pathogenicity test				
X spp				
Confirmation by pathogenicity test of PCR positive isolates.	PA-PP-XPP	/	10 days	79.00
Eggplant, Pepper - Detection of 1 pathogen				
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> (Cmm)				
Agar method. (M-GEVES/SV/MO/006).	PA-BA-23-A	30 000	33 days	352.00
Agar method. (M-GEVES/SV/MO/006). Analyse done with 1 subsample on 10 000 seeds maximum.	PA-BA-23-B	Max 10 000	33 days	238.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Eggplant, Pepper - Detection of 2 pathogens				
Cmm + X spp				
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (M-GEVES/SV/MO/006 ; ISF for <i>Xanthomonas</i>).	PA-BA-125A	30 000	33 days	474.00
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (M-GEVES/SV/MO/006 ; ISF for <i>Xanthomonas</i>). Analyse done with 1 subsample on 10 000 seeds maximum.	PA-BA-96-B	Max 10 000	33 days	391.00
Eggplant, Pepper - Detection of 3 pathogens				
Cmm + Pst + X spp				
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (M-GEVES/SV/MO/006 ; ISF for <i>Xanthomonas</i> ; internal method for <i>Pseudomonas</i>).	PA-BA-96-A	30 000	43 days	562.00
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (M-GEVES/SV/MO/006 ; ISF for <i>Xanthomonas</i> ; internal method for <i>Pseudomonas</i>). Analyse done with 1 subsample (10 000 seeds maximum).	PA-BA-96-C	Max 10 000	43 days	517.00
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish, Rocket) - Detection of 1 pathogen				
<i>Xanthomonas campestris</i> pv. <i>campestris</i> (Xcc)				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies).	PA-BA-04	30 000	36 days	229.00
Agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019a).	PA-BA-03	30 000	36 days	241.00
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies (ISTA 7-019b without counting of colonies).	PA-BA-105	30 000	36 days	272.00
Disinfected seeds . Grinding + agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019b).	PA-BA-05	30 000	36 days	287.00
<i>Xanthomonas campestris</i> pv. <i>raphani</i> (armoraciae) (Xcr)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-29	30 000	36 days	220.00
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-30	30 000	36 days	272.00
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> (Psm)				
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-33	30 000	36 days	277.00
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-10	30 000	36 days	234.00
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish, Rocket) - Detection of 2 pathogens				
Xcc + Xcr				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc and Xcr).	PA-BA-06	30 000	36 days	277.00
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies (ISTA 7-019b without counting of colonies for Xcc).	PA-BA-07	30 000	36 days	329.00
Xcc + Psm				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc).	PA-BA-45	30 000	36 days	337.00
Xcr + Psm				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-46	30 000	36 days	337.00
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish, Rocket) - Detection of 3 pathogens				
Xcc + Xcr + Psm				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc and Xcr).	PA-BA-08	30 000	36 days	394.00
Carrot				
<i>Candidatus liberibacter solanacearum</i>				
Detection by PCR.	PA-BA-CAND	20 000	10 days	141.00
Carrot, Celery, Fennel, Parsnip				
<i>Xanthomonas hortorum</i> pv. <i>carotae</i>				
Agar method + PCR in case of suspect colonies (in house method ANA/PAT/QS/BA/MO/004)	PA-BA-01	30 000	31 days	305.00
Zucchini				
<i>Pseudomonas syringae</i> pv. <i>peponis</i>				
Agar method + identification of strains by PCR in case of suspect colonies.	PA-BA-91	5 000	36 days	348.00
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 1 pathogen				
<i>Xanthomonas cucurbitae</i>				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-86	5 000	37 days	373.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 1 pathogen				
<i>Pseudomonas viridiflava</i>				
Agar method + confirmation by PCR.	PA-BA-93	5 000	26 days	373.00
<i>Acidovorax citrulli</i>				
SE-PCR, ISF method current version. Confirmation of viability and pathogenicity is possible by grow-out on a new sample of 10 400 seeds.	PA-BA-1121	10 000	10 days	211.00
	PA-BA-1122	30 000	10 days	349.00
Grow-out, PCR or pathogenicity test in case of suspect symptoms.	PA-BA-112	10 400	37 days	476.00
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 2 pathogens				
<i>Pseudomonas syringae</i> pv. <i>lachrymans</i> + <i>Pseudomonas syringae</i> pv. <i>peponis</i>				
Agar method + pathogenicity test and/or identification of strains by PCR in case of suspect colonies.	PA-BA-89	5 000	36 days	405.00
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 3 pathogens				
<i>Pseudomonas syringae</i> pv. <i>lachrymans</i> + <i>Pseudomonas syringae</i> pv. <i>peponis</i> + <i>Xanthomonas cucurbitae</i>				
Agar method + pathogenicity test and/or identification of strains by PCR in case of suspect colonies.	PA-BA-89-1	5 000	40 days	468.00
Bean - Detection of 1 pathogen				
<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> (<i>Xanthomonas phaseoli</i> pv. <i>phaseoli</i>) and <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> var. <i>fuscans</i> (<i>Xanthomonas citri</i> pv. <i>fuscans</i>) (Xap/Xff)				
Agar method, identification of strains by qPCR in case of suspect colonies (in house method ANA/PAT/QS/BA/MO/015 COFRAC).	PA-BA-13-2	5 000	26 days	199.00
	PA-BA-13-4	30 000	26 days	450.00
Agar method with counting of colonies + identification of strains by PCR in case of suspect colonies (ISTA 7-021 option 2).	PA-BA-12	5 000	35 days	245.00
<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> (Psp)				
Agar method + identification of strains by qPCR in case of suspect colonies (method derived from Anses BHs/99/02).	PA-BA-34-2	5 000	29 days	225.00
Agar method with counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-023).	PA-BA-44	5 000	34 days	281.00
Bean - Detection of 2 pathogens				
Xap/Xff + Psp				
Detection and identification on symptoms (leaves or pods) by PCR.	PA-BA-94	/	14 days	295.00
SE-PCR with pathogen enrichment, in house method ANA/PAT/QS/BA/MO/015. Confirmation of viability and pathogenicity by dilution-plating method on a new sample is possible.	PA-BA-13-5	5 000	15 days	322.00
Agar method + identification of strains by qPCR in case of suspect colonies (in house method ANA/PAT/QS/BA/MO/015 COFRAC for Xap/Xff - in house method derived from BHs/99/02 for Psp).	PA-BA-15-2	5 000	29 days	305.00
	PA-BA-15-4	30 000	29 days	585.00
Psp + Pss				
Agar method + PCR/pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/02).	PA-BA-50	5 000	31 days	313.00
Bean - Detection of 3 pathogens				
Xap/Xff + Psp + Pss				
Agar method + identification of strains by qPCR in case of suspect colonies (in house method ANA/PAT/QS/BA/MO/015 COFRAC for Xap/Xff ; in house method derived from BHs/99/02 for Psp)	PA-BA-17	5 000	39 days	371.00
Agar method + identification of strains by pathogenicity test (in house method derived from BHs/99/02 for Pss).	PA-BA-18	30 000	39 days	697.00
Bean - Supplement fee pathogenicity test				
Xap/Xff				
Supplement fee. Confirmation by pathogenicity test of PCR positive isolates (in house method ANA/PAT/QS/BA/MO/015 COFRAC).	PA-PP-XAP	/	21 days	76.00
Psp				
Confirmation by pathogenicity test of PCR positive.	PA-PP-PSPH	/	21 days	81.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Lettuce - Detection of 1 pathogen				
<i>Xanthomonas vitians</i> (Xav)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-95	30 000	39 days	211.00
<i>Pseudomonas cichorii</i> (Pc)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-97	30 000	39 days	228.00
Lettuce - Detection of 2 pathogens				
Xav + Pc				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-98	30 000	39 days	391.00
Corn salad				
<i>Acidovorax valerianellae</i>				
Grow-out, symptoms observed on plantlets and confirmation by PCR in case of suspect plantlets. For untreated seed, fungal treatment is systematically done in water added to vermiculite (ISTA 7-030).	PA-BA-38	10 000	39 days	249.00
Seeds that require dormancy breaking.	PA-BA-38-2	10 000	46 days	249.00
Grow-out, symptoms observed on plantlets and confirmation by PCR in case of suspect colonies. For untreated seed, a fungal treatment is systematically done in water added to vermiculite (ISTA 7-030).				
Supplement for counting of foci.	PA-BA-41	/	/	27.00
Pea - Detection of 1 pathogen				
<i>Pseudomonas syringae</i> pv. <i>pisi</i> (Psp)				
Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	PA-BA-21	5 000	26 days	204.00
	PA-BA-70	15 000	26 days	304.00
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-029).	PA-BA-21-1	5 000	32 days	250.00
<i>Pseudomonas syringae</i> pv. <i>syringae</i> (Pss)				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	PA-BA-22	5 000	32 days	228.00
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-84	15 000	32 days	304.00
Pea - Detection of 2 pathogens				
Psp + Pss				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	PA-BA-22-2	5 000	36 days	259.00
	PA-BA-85	15 000	36 days	394.00
Pea - Supplement fee pathogenicity test				
<i>Pseudomonas syringae</i> pv. <i>pisi</i>				
Confirmation by pathogenicity test PCR positive isolates.	PA-PP-PSP	/	9 days	81.00
Tomato - Detection of 1 pathogen				
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> (Cmm)				
SE-qPCR (method ISF COFRAC). Non disinfected seeds only.	PA-BA-23-6	10 000	12 days	191.00
Confirmation of viability and pathogenicity by dilution-plating method on a new sample is possible.				
	PA-BA-23-7	30 000	12 days	270.00
Agar method + identification of strains by qPCR in case of suspect colonies (method M-GEVES/SV/MO/006 COFRAC).	PA-BA-23-1	30 000	33 days	352.00
Agar method + identification of strains by qPCR in case of suspect colonies (method M-GEVES/SV/MO/006 COFRAC). Analyse done with 1 subsample on 10 000 seeds maximum.	PA-BA-23-2	Max 10 000	33 days	238.00
Supplement fee. Confirmation by pathogenicity test of PCR positive isolates (method M-GEVES/SV/MO/006 COFRAC).	PA-PP-CMM	/	10 days	53.00
Tomato - Detection of 2 pathogens				
Cmm + X spp				
Agar method + identification of strains by qPCR in case of suspect colonies and pathogenicity test (method M-GEVES/SV/MO/006 COFRAC for Cmm ; method ISF for <i>Xanthomonas</i>).	PA-BA-125	30 000	33 days	474.00
Agar method + identification of strains by qPCR in case of suspect colonies and pathogenicity test (method M-GEVES/SV/MO/006 COFRAC for Cmm ; method ISF for <i>Xanthomonas</i>). Analyse done with 1 subsample on 10 000 seeds maximum.	PA-BA-96-1	Max 10 000	33 days	391.00
Tomato - Detection of 3 pathogens				
Cmm + Pst + X spp				
Agar method + identification of strains by qPCR in case of suspect colonies and pathogenicity test (method M-GEVES/SV/MO/006 COFRAC for Cmm ; method ISF for <i>Xanthomonas</i> ; in house method for <i>Pseudomonas</i>).	PA-BA-96	30 000	43 days	562.00

Bacteriology - Uncoated seeds only

Tomato - Detection of 3 pathogens

Cmm + Pst + X spp

Agar method + identification of strains by qPCR in case of suspect colonies and pathogenicity test (method M-GEVES/SV/MO/006 COFRAC for Cmm ; method ISF for *Xanthomonas* ; in house method for *Pseudomonas*).

PA-BA-96-2

Size Duration Price

10 000 43 days 517.00

Mycology - See p.8 "Seed health"

Asparagus

Fusarium oxysporum, *Fusarium* sp., *Botrytis* sp.

Agar method without superficial disinfection.

PA-ES-ASP

Size Duration Price

400 19 days 110.00

Eggplant

Alternaria solani, *Fusarium oxysporum*, *Fusarium solani*, *Fusarium* sp., *Colletotrichum* sp., *Phomopsis* sp., *Botrytis* sp., *Verticillium* sp., *Rhizoctonia* sp., *Didymella* sp., *Stemphylium* sp.

Agar method without superficial disinfection.

PA-ES-AUB

400 19 days 110.00

Alliaceae (Chive, Onion, Leek)

Alternaria porri, *Botrytis allii* and/or *aclada*, *Sclerotium cepivorum* (*Stromatinia cepivora*), *Fusarium oxysporum*, *Pyrenochaeta terrestris* (*Setophoma terrestris*), *Fusarium* sp. (section *Liseola* and other sections), *Botrytis cinerea*, *Botrytis squamosa*

Agar method.

PA-ES-OIG

400 19 days 110.00

Brassicaceae (Cabbage, Rape, Turnip, Radish, Rocket)

Leptosphaeria maculans and/or *Plenodomus biglobosus* (*Phoma lingam*), *Alternaria brassicae*, *Alternaria brassicicola*, *Alternaria japonica*, *Sclerotinia sclerotiorum*, *Botrytis cinerea*, *Phoma* sp.

Agar method (derived from ISTA method 7-004).

PA-ES-CHO

400 19 days 110.00

Leptosphaeria maculans and/or *Plenodomus biglobosus* (*Phoma lingam*)

Agar method (ISTA 7-004).

PA-PH-CHO

1 000 25 days 272.00

Albugo candida

Seed wash method. UNTREATED seeds only.

PA-ALB-CHO

500 15 days 106.00

Hyaloperonospora parasitica (downy mildew)

Seed wash method. UNTREATED seeds only.

PA-MI-CHO

500 15 days 106.00

Grow-out method (viability testing).

PA-MICHOGO

400 42 days 134.00

Carrot

Cercospora carotae (*Neocercospora carotae*)

Seed wash method. UNTREATED seeds only.

PA-CE-CAR

500 15 days 106.00

Alternaria dauci, *Alternaria radicina* (*Stemphylium radicinum*) and/or *carotiincultae*

Agar Method (ISTA 7-001b, 7-002b).

PA-AL-CAR

400 24 days 110.00

Alternaria dauci, *Alternaria radicina* (*Stemphylium radicinum*) and/or *carotiincultae*, *Fusarium* sp., *Phoma* sp., *Botrytis* sp.

Agar method with superficial disinfection. UNTREATED seeds only.

PA-ES-CAR

400 19 days 110.00

Septoria carotae

Direct visual observation. UNTREATED seeds only.

PA-SE-CAR

1 000 15 days 91.00

Mycocentrospora acerina

Seed wash method. UNTREATED seeds only.

PA-MY-CAR

500 15 days 106.00

Celery

Alternaria dauci, *Alternaria radicina* (*Stemphylium radicinum*) and/or *carotiincultae*, *Fusarium* sp., *Phoma* sp., *Botrytis* sp.

Agar method without superficial disinfection.

PA-ES-CEL

400 19 days 110.00

Septoria apiicola

Direct visual observation. UNTREATED seeds only.

PA-SE-CEL

1 000 15 days 91.00

Cercospora apii

Seed wash method. UNTREATED seeds only.

PA-CE-CEL

500 15 days 106.00

Squash, Melon

Pseudoperonospora cubensis

Seed wash method. UNTREATED seeds only.

PA-MI-COUR

500 15 days 106.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Cucurbits (Cucumber, Melon, Pumpkin, Squash, Watermelon)				
<i>Stagonosporopsis cucurbitacearum (Didymella bryoniae)</i> , <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Alternaria cucumerina</i> , <i>Gloeosporium orbiculare (Colletotrichum orbiculare)</i> , <i>Fusarium</i> sp., <i>Phomopsis</i> sp., <i>Botrytis</i> sp., <i>Cladosporium</i> sp.				
Cucumber - Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-COND	400	19 days	115.00
Cucumber - Agar method without superficial disinfection. Treated seeds only.	PA-ES-CON	400	19 days	110.00
Pumpkin, Squash - Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-COUD	400	19 days	115.00
Pumpkin, Squash - Agar method without superficial disinfection. Treated seeds only.	PA-ES-COU	400	19 days	110.00
Melon - Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-MELD	400	19 days	115.00
Melon - Agar method without superficial disinfection. Treated seeds only.	PA-ES-MEL	400	19 days	110.00
Watermelon - Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-PASD	400	19 days	115.00
Watermelon - Agar method without superficial disinfection. Treated seeds only.	PA-ES-PAS	400	19 days	110.00
Fusarium spp.				
Confirmation by pathogenicity test of suspect <i>Fusarium</i> strains isolated.	PA-COU-PP	/	45 days	183.00
Cress				
<i>Alternaria brassicae</i> , <i>Stemphylium botryosum</i> , <i>Botrytis</i> sp., <i>Phoma</i> sp., <i>Fusarium</i> sp. Agar method without superficial disinfection.	PA-ES-CRE	400	19 days	110.00
Hyaloperonospora brassicae (Peronospora brassicae)				
Seed wash method. UNTREATED seeds only. Watercress (<i>Nasturtium</i>) seeds only.	PA-MI-CRE	500	15 days	106.00
Spinach				
<i>Peronospora farinosa (downy mildew)</i> Seed wash method. UNTREATED seeds only.	PA-MI-EPI	500	15 days	106.00
<i>Botrytis cinerea</i> , <i>Colletotrichum dematium</i> , <i>Fusarium oxysporum</i> , <i>Fusarium</i> sp. Agar method without superficial disinfection.	PA-ES-EPI	400	19 days	110.00
Fennel				
<i>Passalora punctum (Cercosporidium punctum)</i> Seed wash method. UNTREATED seeds only.	PA-CE-FEN	500	15 days	106.00
<i>Botrytis cinerea</i> , <i>Fusarium</i> sp., <i>Alternaria radicina</i> , <i>Stemphylium botryosum</i> , <i>Phoma</i> sp. Agar method without superficial disinfection.	PA-ES-FEN	400	19 days	110.00
Bean				
<i>Colletotrichum lindemuthianum</i> , <i>Botrytis cinerea</i> , <i>Macrophomina phaseolina</i> , <i>Stemphylium botryosum</i> , <i>Boeremia exigua (Phoma exigua)</i> , <i>Colletotrichum truncatum</i> , <i>Phyllosticta phaseolina</i> , <i>Fusarium</i> sp., <i>Rhizoctonia solani</i> , <i>Diaporthe phaseolorum</i> , <i>Sclerotinia sclerotiorum</i> Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-HARD	400	19 days	115.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-HARM	400	19 days	110.00
<i>Colletotrichum lindemuthianum</i> Blotter roller method (ISTA 7-006).	PA-ESI-HAR	400	19 days	119.00
Lettuce				
<i>Septoria lactucae</i> Direct visual observation. UNTREATED seeds only.	PA-SE-LAI	1 000	15 days	91.00
<i>Alternaria dauci</i> , <i>Microdochium panattonianum (Marssonina panattoniana)</i> , <i>Stemphylium</i> sp., <i>Botrytis</i> sp., <i>Verticillium</i> sp., <i>Fusarium</i> sp. Agar method without superficial disinfection.	PA-ES-LAI	400	19 days	110.00
Corn salad				
<i>Peronospora valerianellae (downy mildew)</i> Seed wash method. UNTREATED seeds only.	PA-MI-MAC	500	15 days	95.00
Grow-out method (viability testing).	PA-OUT-MAC	400	42 days	121.00
<i>Stagonosporopsis valerianellae (Phoma valerianellae)</i> , <i>Botrytis cinerea</i> , <i>Fusarium</i> sp. Agar method without superficial disinfection.	PA-ES-MAC	400	28 days	110.00
Onion				
<i>Peronospora destructor (downy mildew)</i> Seed wash method. UNTREATED seeds only.	PA-MI-OIG	500	15 days	106.00
<i>Urocystis colchici (Urocystis cepulae) (smut)</i> Seed wash method. UNTREATED seeds only.	PA-CH-OIG	500	15 days	106.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Onion bulblets				
<i>Alternaria porri</i>, <i>Botrytis allii</i> and/or <i>aclada</i>, <i>Sclerotium cepivorum</i> (<i>Stromatinia cepivora</i>), <i>Fusarium oxysporum</i>, <i>Pyrenochaeta terrestris</i> (<i>Setophoma terrestris</i>), <i>Fusarium</i> sp., <i>Botrytis cinerea</i>, <i>Botrytis squamosa</i>				
Agar method with superficial disinfection. UNTREATED bublets only.	PA-ESOIGBD	200	19 days	124.00
Agar method without superficial disinfection. Treated bublets only.	PA-ES-OIGB	200	19 days	115.00
Capsicum				
<i>Phytophthora capsici</i>				
Seed wash method. UNTREATED seeds only.	PA-MI-PIM	500	15 days	106.00
Capsicum, Pepper				
<i>Colletotrichum truncatum</i> (<i>Colletotrichum capsici</i>), <i>Fusarium oxysporum</i>, <i>Fusarium</i> sp., <i>Colletotrichum coccodes</i>, <i>Sclerotinia sclerotiorum</i>, <i>Botrytis</i> sp., <i>Verticillium</i> sp.				
Agar method without superficial disinfection.	PA-ES-POIV	400	19 days	110.00
Leek				
<i>Alternaria porri</i>, <i>Botrytis allii</i> et/ou <i>aclada</i>, <i>Sclerotinia minor</i>, <i>Fusarium moniliforme</i>, <i>Fusarium oxysporum</i>, <i>Fusarium</i> sp., <i>Botrytis</i> sp., <i>Stemphylium</i> sp.				
Agar method without superficial disinfection.	PA-ES-POR	400	19 days	110.00
Pea				
<i>Didymella pisi</i> (<i>Ascochyta pisi</i>), <i>Didymella pinodes</i> (<i>Mycosphaerella pinodes</i>), <i>Didymella pinodella</i> (<i>Phoma pinodella</i>), <i>Stemphylium botryosum</i>, <i>Fusarium</i> sp., <i>Botrytis</i> sp., <i>Sclerotinia</i> sp., <i>Phoma</i> sp.				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-POID	400	19 days	115.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POI	400	19 days	110.00
<i>Peronospora viciae</i> (<i>Peronospora pisi</i>) (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-POI	500	15 days	106.00
<i>Didymella pisi</i> (<i>Ascochyta pisi</i>)				
Agar method (ISTA 7-005).	PA-ANT-POI	400	19 days	115.00
Chickpea				
<i>Ascochyta rabiei</i> (<i>Phoma rabiei</i>), <i>Botrytis cinerea</i>, <i>Fusarium oxysporum</i>, <i>Fusarium solani</i>, <i>Fusarium</i> sp.				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-POCD	400	19 days	115.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POC	400	19 days	110.00
Radish				
<i>Hyaloperonospora parasitica</i> (<i>Peronospora parasitica</i>) (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-RAD	500	15 days	106.00
Grow-out method (viability testing).	PA-MIRADGO	400	42 days	134.00
Rocket				
<i>Hyaloperonospora parasitica</i>				
Seed wash method. UNTREATED seeds only.	PA-MI-ROQL	500	15 days	106.00
Tomato				
<i>Alternaria solani</i>, <i>Fusarium oxysporum</i>, <i>Fusarium solani</i>, <i>Fusarium</i> sp., <i>Colletotrichum coccodes</i>, <i>Botrytis cinerea</i>, <i>Didymella</i> sp., <i>Verticillium</i> sp., <i>Stemphylium</i> sp., <i>Rhizoctonia</i> sp., <i>Sclerotinia</i> sp.				
Agar method.	PA-ES-TOM	400	19 days	110.00

Nematology

		Size	Duration	Price
Carrot				
<i>Ditylenchus dipsaci</i>				
Filtration and morphological identification (method Anses MOA013 parts A COFRAC and B COFRAC). UNTREATED seeds only.	PA-NE-CAR	70 g	16 days	79.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				

Nematology

		Size	Duration	Price
Onion				
Ditylenchus dipsaci				
Filtration and morphological identification (method Anses MOA013 parts A COFRAC and B COFRAC). UNTREATED seeds only.	PA-NE-OIG	70 g	16 days	79.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Leek				
Ditylenchus dipsaci				
Filtration and morphological identification (method Anses MOA013 parts A COFRAC and B COFRAC). UNTREATED seeds only.	PA-NE-POI	70 g	16 days	79.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Pea				
Ditylenchus dipsaci				
Filtration and morphological identification (method Anses MOA013 parts A COFRAC and B COFRAC). UNTREATED seeds only.	PA-NE-POIS	200 g	16 days	79.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Bulbs, bulblets, corms, rhizomes, tubers				
Ditylenchus dipsaci				
Filtration and morphological identification (method Anses MOA013 parts A COFRAC and B COFRAC). UNTREATED seeds only.	PA-NE-BULB	50 units	16 days	138.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				

Virology - Uncoated seeds only

		Size	Duration	Price
Eggplant				
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37-1	3 000	16 days	166.00
Tomato brown rugose fruit virus (ToBRFV)				
RT-PCR (method ANSES/LSV/MA066, primers and probe of Menzel and Winter).	PA-VI-93-9	1 000	10 days	146.00
	PA-VI-93-8	3 000	10 days	196.00
	PA-VI-97-1	4 800	10 days	513.00
	PA-VI-9311	20 000	10 days	2376.00
Tomato brown rugose fruit virus (ToBRFV) and Tomato mottle mosaic virus (ToMMV)				
RT-PCR (method ANSES/LSV/MA066, primers and probe of Menzel and Winter for ToBRFV).	PA-VI-99-3	1 000	10 days	163.00
	PA-VI-99-2	3 000	10 days	248.00
	PA-VI-99-5	20 000	10 days	2700.00
Eggplant, Capsicum, Pepper, Tomato				
Tomato mottle mosaic virus (ToMMV)				
RT-PCR.	PA-VI-98-1	1 000	10 days	152.00
	PA-VI-98	3 000	10 days	214.00
Pepper mild mottle virus (PMMoV)				
ELISA.	PA-VI-24	1 000	16 days	138.00
	PA-VI-09	3 000	16 days	244.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37-1	3 000	16 days	166.00
Alfalfa mosaic (AMV)				
ELISA.	PA-VI-71	3 000	16 days	168.00
Tobacco ringspot virus (TRSV)				
ELISA.	PA-VI-39-1	3 000	16 days	166.00
Tomato ringspot virus (ToRSV)				
ELISA.	PA-VI-38-1	3 000	16 days	168.00
Tobamovirus (ToBRFV, TMV, ToMV, PMMoV, ToMMV)				
Indexing.	PA-VI-28	1 000	24 days	133.00
Indexing (ISTA 7-028).	PA-VI-20	3 000	24 days	183.00

Virology - Uncoated seeds only

		Size	Duration	Price
Eggplant, Capsicum, Pepper, Tomato				
Pospiviroids (PSTVd, TCDVd, MPVd, PCFVd, CEVd, CLVd, TPMVd, TASVd)				
RT-PCR.	PA-VI-55	3 000	10 days	236.00
	PA-VI-83	4 800	21 days	761.00
	PA-VI-72	20 000	10 days	3169.00
Tomato mosaic virus (ToMV) and/or Tobacco mosaic virus (TMV)				
ELISA.	PA-VI-18	1 000	16 days	136.00
	PA-VI-19	3 000	16 days	192.00
Tobacco mild green mosaic virus (TMGMV)				
ELISA.	PA-VI-94-1	1 000	16 days	141.00
	PA-VI-94	3 000	16 days	153.00
Arabidopsis mosaic virus (ArMV)				
ELISA.	PA-VI-33-1	3 000	16 days	229.00
Tomato bushy stunt virus (TBSV)				
ELISA.	PA-VI-47	3 000	16 days	241.00
Pelargonium zonate spot virus (PZSV)				
ELISA.	PA-VI-46	3 000	16 days	256.00
Pepper vein mottle virus (PVMV)				
ELISA.	PA-VI-86	3 000	16 days	244.00
Pepino mosaic virus (PepMV)				
ELISA and confirmation of positives and indeterminates by RT-PCR (internal method derived from Anses MOA 008 – MOA 026).	PA-VI-15	1 000	16 days	175.0
	PA-VI-16	3 000	16 days	203.00
	PA-VI-17	5 000	16 days	348.00
Carrot				
Alfalfa mosaic (AMV)				
ELISA.	PA-VI-71	3 000	16 days	168.00
Arabidopsis mosaic virus (ArMV)				
ELISA.	PA-VI-33-1	3 000	16 days	229.00
Tobacco ringspot virus (TRSV)				
ELISA.	PA-VI-38-1	3 000	16 days	168.00
Celery				
Strawberry latent ringspot virus (SLRSV)				
ELISA.	PA-VI-36	3 000	16 days	260.00
Cucurbits - Detection of 1 pathogen				
Cucumber mosaic virus (CMV)				
ELISA.	PA-VI-56	2 000	16 days	253.00
Arabidopsis mosaic virus (ArMV)				
ELISA.	PA-VI-33	2 000	16 days	257.00
Cucumber leaf spot carmovirus (CLSV)				
ELISA.	PA-VI-35	2 000	16 days	257.00
Tobacco ringspot virus (TRSV)				
ELISA.	PA-VI-39	2 000	16 days	268.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37	2 000	16 days	213.00
Tobacco ringspot virus (TRSV)				
ELISA.	PA-VI-38	2 000	16 days	257.00
Zucchini yellow mosaic virus (ZYMV)				
ELISA.	PA-VI-40	2 000	16 days	265.00
Squash leaf curl virus (SLCV)				
ELISA.	PA-VI-77	2 000	16 days	260.00
Cucumber green mottle mosaic virus (CGMMV)				
ELISA (ISTA 7-026).	PA-VI-01-1	2 000	16 days	193.00
	PA-VI-51	9 400	16 days	656.00
Kyuri green mottle mosaic virus (KGMMV)				
ELISA.	PA-VI-63	2 000	16 days	260.00

Virology - Uncoated seeds only

		Size	Duration	Price
Cucurbits - Detection of 1 pathogen				
Kyuri green mottle mosaic virus (KGMMV)				
ELISA.	PA-VI-63-1	9 400	16 days	656.00
Melon necrotic spot virus (MNSV)				
ELISA (ISTA 7-026).	PA-VI-01-2	2 000	16 days	214.00
ELISA.	PA-VI-01-7	9 400	16 days	721.00
Squash mosaic virus (SqMV)				
ELISA (ISTA 7-026).	PA-VI-01	2 000	16 days	193.00
Cucurbits - Detection of 2 pathogens				
SqMV + CGMMV				
ELISA (ISTA 7-026).	PA-VI-01-3	2 000	16 days	311.00
SqMV + MNSV				
ELISA (ISTA 7-026).	PA-VI-01-4	2 000	16 days	311.00
MNSV + CGMMV				
ELISA (ISTA 7-026).	PA-VI-01-5	2 000	16 days	311.00
CGMMV + KGMMV				
ELISA.	PA-VI-64	2 000	16 days	326.00
	PA-VI-87	9 400	16 days	1358.00
Cucurbits - Detection of 3 pathogens				
SqMV + CGMMV + MNSV				
ELISA (ISTA 7-026).	PA-VI-01-6	2 000	16 days	482.00
KGMMV+ CGMMV+ MNSV				
ELISA.	PA-VI-95	9 400	16 days	1382.00
Cucurbits - Detection of 4 pathogens				
SqMV + CGMMV + KGMMV + MNSV				
ELISA.	PA-VI-65	2 000	16 days	617.00
Spinach				
Beet mosaic virus (BtMV)				
ELISA.	PA-VI-73	3 000	16 days	260.00
Bean - Detection of 1 pathogen				
Bean common mosaic virus (BCMV)				
ELISA on plantlets.	PA-VI-02	1 000	37 days	315.00
Bean common mosaic necrotic virus (BCMNV)				
ELISA on plantlets.	PA-VI-03	1 000	37 days	321.00
Pea early browning virus (PEBV)				
ELISA.	PA-VI-53	2 000	16 days	246.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37	2 000	16 days	213.00
Bean - Detection of 2 pathogens				
BCMV + BCMNV				
ELISA on plantlets.	PA-VI-04	1 000	37 days	483.00
Lettuce				
Arabis mosaic virus (ArMV)				
ELISA.	PA-VI-33-1	3 000	16 days	229.00
Lettuce mosaic virus (LMV)				
ELISA.	PA-VI-05	10 000	16 days	190.00
	PA-VI-06	30 000	16 days	371.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37-1	3 000	16 days	166.00
Tobacco ringspot virus (TRSV)				
ELISA.	PA-VI-39-1	3 000	16 days	166.00
Tomato ringspot virus (ToRSV)				
ELISA.	PA-VI-38-1	3 000	16 days	168.00
Strawberry latent ringspot virus (SLRSV)				
ELISA.	PA-VI-36	3 000	16 days	260.00

Virology - Uncoated seeds only

Capsicum, Pepper, Tomato

Tomato brown rugose fruit virus (ToBRFV)

Real time RT-PCR on seeds (method ANSES/LSV/MA066 COFRAC, primers and probe of Menzel and Winter). **UNCOATED seeds only.**

	Size	Duration	Price
PA-VI-93-7	1 000	10 days	146.00
PA-VI-93-6	3 000	10 days	196.00
PA-VI-9310	20 000	10 days	2376.00

Tomato brown rugose fruit virus (ToBRFV) and Tomato mottle mosaic virus (ToMMV)

Real time RT-PCR on seeds (method ANSES/LSV/MA066 COFRAC, primers and probe of Menzel and Winter ; in house method for ToMMV). **UNCOATED seeds only.**

PA-VI-99-1	1 000	10 days	163.00
PA-VI-99	3 000	10 days	248.00
PA-VI-99-4	20 000	10 days	2700.00

Pea

Tomato black ring virus (TBRV)

ELISA.

PA-VI-37	2 000	16 days	213.00
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Pea early browning virus (PEBV)

ELISA (ISTA 7-024).

PA-VI-31	2 000	16 days	214.00
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Pea enation mosaic virus (PEMV)

ELISA.

PA-VI-57	2 000	16 days	259.00
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Pea seed borne mosaic virus (PSbMV)

ELISA (ISTA 7-024).

PA-VI-11	2 000	16 days	180.00
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Bean yellow mosaic virus (BYMV)

ELISA.

PA-VI-60	2 000	16 days	282.00
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Bean leaf roll virus (BLRV)

ELISA.

PA-VI-67	2 000	16 days	257.00
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Southern bean mosaic virus (SBMV)

ELISA.

PA-VI-88	2 000	16 days	257.00
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Broad bean true mosaic virus (BBTMV)

ELISA.

PA-VI-50	2 000	16 days	257.00
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Soybean

Soybean mosaic virus (SMV)

ELISA.

PA-VI-13	2 000	16 days	227.00
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Tomato

Pepino mosaic virus (PepMV)

ELISA (method Anses MOA 026 COFRAC) and confirmation of positives and indeterminates according by RT-PCR (in house method).

PA-VI-15CO	1 000	16 days	173.00
PA-VI-16CO	2 500	16 days	252.00
PA-VI-17CO	5 000	16 days	414.00

EVALUATION OF VARIETIES

Varietal resistance

Eggplant

Verticillium dahliae

GEVES protocol.

PA-R-AUB-1	Contact SNES
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Cabbage

Fusarium oxysporum f. sp. conglutinans race 1

Official protocol.

PA-R-CHO	45	/	343.00
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Plasmodiophora brassicae

GEVES protocol.

PA-R-CHO-1	45	/	252.00
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Cucumber

CMV (Cucurbit mosaic virus)

Official protocol.

PA-R-CON	45	/	173.00
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CGMMV (Cucumber green mottle mosaic virus)

GEVES protocol.

PA-R-CON-1	45	/	173.00
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Different prices outside test periods. Contact SNES for information on the periods according to the species.

Varietal resistance				Size	Duration	Price
Cucumber						
ZYMV (Zucchini yellow mosaic virus) Official protocol.	PA-R-CON-2	45	/			173.00
WMV (Watermelon mosaic virus) Official protocol.	PA-R-CON-3	45	/			173.00
Podosphaera xanthii race 1 Official protocol.	PA-R-CON-4	45	/			325.00
Squash						
ZYMV (Zucchini yellow mosaic virus) Official protocol.	PA-R-COU-2	45	/			170.00
WMV (Watermelon mosaic virus) Official protocol.	PA-R-COU-3	45	/			170.00
Podosphaera xanthii race 1 Official protocol.	PA-R-COU-4	45	/			316.00
Bean						
BCMV (Bean common mosaic necrotic virus) Official protocol.	PA-R-HAR-1	30	/			154.00
Colletotrichum lindemuthianum race 6 or race Kappa (anthracnose) Official protocol.	PA-R-HAR-COL	30	/			170.00
Pseudomonas savastanoi pv. phaseolicola race 6 (halo blight) Official protocol.	PA-R-HAR-3	30	/			178.00
Xanthomonas axonopodis pv. phaseoli Official protocol.	PA-R-HAR-4				Contact SNES	
Lettuce						
Bremia lactucae races BI: 1EU / BI: 2EU / BI: 3EU / BI: 4EU / BI: 5EU / BI: 6EU / BI: 7EU / BI: 10EU / BI: 12 to 18EU / BI: 20 to BI: 28EU / BI: 32EU / BI: 34EU / BI: 37EU / S1 / SF1 or IL4 Official protocol.	PA-R-LAI-BRE				Contact SNES	
Bremia lactucae official races for BI: 29EU / BI: 30EU / BI: 31EU / BI: 33EU / BI: 35EU / BI: 36EU / BI: 38 / BI: 39EU / BI: 40EU Official protocol.	PA-R-LAI-BRE1	45	/			76.00
Bremia lactucae new race BI: 41EU Official protocol.	PA-R-LAI-BRE2	45	/			80.00
Bremia lactucae Late stage resistance.	PA-R-LAI29				Contact SNES	
Identification of the race.	PA-R-IDBRE				Contact SNES	
LMV (Lettuce mosaic virus) pathotype II (LMV-0) CTPS protocol.	PA-R-LAI23	30	/			122.00
LMV (Lettuce mosaic virus) pathotype III (LMV-9) CTPS protocol.	PA-R-LAI24				Contact SNES	
LMV (Lettuce mosaic virus) Detection of markers linked to resistance genes. Gene mo1. Resistance to the Lettuce virus.	BI-D-GENR				Contact BioGEVES	
Fusarium oxysporum f. sp. lactucae race 1 Official protocol.	PA-R-LAI30	45	/			205.00
Fusarium oxysporum f.sp. lactucae race 4 Official protocol.	PA-R-LAI41	45	/			224.00
Fusarium oxysporum f. sp. lactucae Identification of the race.	PA-R-IDFUS				Contact SNES	
Nasonovia ribisnigri race 0 Official protocol.	PA-R-LAI35	45	/			179.00
Corn salad						
Peronospora valerianellae race Pv: 1 or Pv: 2 Official protocol.	PA-R-MAC-PV				Contact SNES	

Different prices outside test periods. Contact SNES for information on the periods according to the species.

Varietal resistance

		Size	Duration	Price
Melon				
<i>Fusarium oxysporum</i> f. sp. <i>melonis</i> races Fom: 0 / Fom: 1 / Fom: 2 or Fom: 1.2				
Official protocol.	PA-R-MEL-FUS	45	/	192.00
CMV (<i>Cucurbit mosaic virus</i>)				
Official protocol.	PA-R-MEL-5	45	/	325.00
MNSV: 0 (<i>Melon necrotic spot virus</i>) race 0				
Official protocol.	PA-R-MEL-4	45	/	193.00
MWMV (<i>Moroccan watermelon mosaic virus</i>)				
Official protocol.	PA-R-MEL-8	45	/	193.00
ZYMV (<i>Zucchini yellow mosaic virus</i>)				
Official protocol.	PA-R-MEL10	45	/	193.00
<i>Podosphaera xanthii</i> races Px: 1 / Px: 2 / Px: 3 / Px: 5 / Px: 3-5 / Px: 6 or Px: 7				
Official protocol.	PA-R-MEL-POD NEW	45	/	335.00
<i>Podosphaera xanthii</i>				
Identification of the race.	PA-R-MEL15			Contact SNES
<i>Fusarium oxysporum</i> f. sp. <i>melonis</i>				
Identification of the race.	PA-R-IDFOM			Contact SNES
Capsicum				
PVY (<i>Potato virus Y</i>) race PVY: 0				
Official protocol.	PA-R-PIM-PVY	45	/	188.00
PVY : 1 (<i>Potato virus Y</i>) races 1 or PVY: 1.2				
Official protocol.	PA-R-PIM-2			Contact SNES
TMV: 0 (<i>Tobacco mosaic virus</i>) race 0				
Official protocol.	PA-R-PIM-4	45	/	176.00
PMMoV (<i>Pepper mild mottle virus</i>) races PMMoV: 1.2 or PMMoV: 1.2.3				
Official protocol.	PA-R-PIM-PMM	45	/	176.00
TSWV: 0 (<i>Tomato spotted wilt virus</i>) race 0				
Official protocol.	PA-R-PIM-7	45	/	176.00
<i>Meloidogyne incognita</i> race P0				
Official protocol.	PA-R-PIM-8			Contact SNES
Pea				
<i>Didymella pisi</i> race C				
Official protocol.	PA-R-POI-1	30	/	106.00
<i>Fusarium oxysporum</i> f. sp. <i>pisi</i> race 1				
Official protocol.	PA-R-POI-2	30	/	119.00
BYMV (<i>Bean yellow mosaic virus</i>)				
Official protocol.	PA-R-POI-3	30	/	110.00
PEMV (<i>Pea enation mosaic virus</i>)				
Official protocol.	PA-R-POI-4	30	/	126.00
<i>Erysiphe pisi</i>				
Official protocol.	PA-R-POI-5	30	/	177.00
Chickpea				
<i>Ascochyta rabiei</i>				
Official protocol.	PA-R-P-C-1 NEW			Contact SNES
Tomato				
<i>Verticillium dahliae</i>				
Official protocol.	PA-R-TOM-1	60	/	174.00
<i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> races Fol: 0 or Fol: 1				
Official protocol.	PA-R-TOM-FUS	60	/	174.00
<i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> race Fol: 2				
Official protocol.	PA-R-TOM-4	45	/	184.00
<i>Passalora fulva</i> race Pf: 0				
Official protocol.	PA-R-TOM-5			Contact SNES

Different prices outside test periods. Contact SNES for information on the periods according to the species.

Varietal resistance				Size	Duration	Price
Tomato						
Passalora fulva race Pf: E						
Official protocol.	PA-R-TOM-6	45	/			174.00
Passalora fulva new races Pf: F / G / H / I or J						
Official protocol.	PA-R-TOM-PF2				Contact SNES	
Fusarium oxysporum radicles f. sp. lycopersici						
Official protocol.	PA-R-TOM-7	60	/			174.00
Stemphylium spp.						
Official protocol.	PA-R-TOM-8	45	/			174.00
ToMV: 0, 1, 2 (Tomato mosaic virus) races ToMV: 0 / ToMV: 1 ou ToMV: 2						
Official protocol.	PA-R-TOM-TMV	45	/			171.00
ToMV: 0 (Tomato mosaic virus) race 0						
Detection of markers linked to resistance genes. Gene Tm1. Resistance to the Tomatovirus.	BI-D-GENR				Contact BioGEVES	
ToMV: 0, ToMV: 1 et ToMV: 2 (Tomato mosaic virus) races 0, 1 et 2						
Detection of markers linked to resistance genes. Tm2 and Tm2 ² genes. Resistance to the Tomatovirus.	BI-D-GENR				Contact BioGEVES	
TSWV: 0 (Tomato spotted wilt virus) race 0						
Official protocol.	PA-R-TOM10	45	/			171.00
Meloidogyne incognita race T0						
Official protocol.	PA-R-TOM14	4605	/			127.00
Pseudomonas syringae pv. tomato						
Official protocol.	PA-R-TOM15	45	/			112.00
Pseudopyrenochaeta lycopersici						
Official protocol.	PA-R-TOM16	60	/			414.00
Passalora fulva						
Identification of the race.	PA-ID-PF				Contact SNES	
Tomato rootstock						
Verticillium dahliae						
Official protocol.	PA-R-TPG-1	90	/			184.00
Fusarium oxysporum f. sp. lycopersici races Fol: 0 or Fol: 1						
Official protocol.	PA-R-TPG-FUS	90	/			193.00
Fusarium oxysporum f. sp. lycopersici race Fol: 2						
Official protocol.	PA-R-TPG-4	90	/			142.00
Passalora fulva race Pf: 0						
Official protocol.	PA-R-TPG-5	90	/			204.00
Passalora fulva race Pf: E						
Official protocol.	PA-R-TPG-6	90	/			177.00
Fusarium oxysporum radicles f. sp. lycopersici						
Official protocol.	PA-R-TPG-7	90	/			184.00
Stemphylium spp.						
Official protocol.	PA-R-TPG-8	90	/			184.00
ToMV: 0, 1, 2 (Tomato mosaic virus) races ToMV: 0 / ToMV: 1 ou ToMV: 2						
Official protocol.	PA-R-TPG-TMV	90	/			180.00
TSWV: 0 (Tomato spotted wilt virus) race 0						
Official protocol.	PA-R-TPG10	90	/			180.00
Meloidogyne incognita race T0						
Official protocol.	PA-R-TPG14				Contact SNES	
Pseudopyrenochaeta lycopersici						
Official protocol.	PA-R-TPG16	90	/			409.00

Different prices outside test periods. Contact SNES for information on the periods according to the species.

Genotyping by molecular biology				Size	Duration	Price
Cabbage, Strawberry, Lettuce, Pea, Radish						
Varietal identity control - SSR.	BI-G-BM-SSR-CID-1				Contact BioGEVES	

Genotyping by molecular biology

Cabbage, Strawberry, Lettuce, Pea, Radish

Varietal purity analysis - SSR - 90 seeds.

BI-G-BM-SSR-PUR-90

Size Duration Price

Contact BioGEVES

Technological quality: biochemicals tests

Brassicaceae

Glucosinolate content (HPLC).

BI-B-HPLC-GLU

Contact BioGEVES

Fatty acid composition (CPG).

BI-B-CPG-AG

Contact BioGEVES

Field Bean, Pea

Protein content (NIRS).

BI-B-NIRS-P

Contact BioGEVES

Capsicum/Pepper

Capsaicin and dihydrocapsaicin content (capsaicinoids) (HPLC).

BI-B-HPLC-CAP

Contact BioGEVES

Pea

Antitrypsic factors (assay by spectrophotometry).

BI-B-SPEC-FAT

Contact BioGEVES

Field tests by SEV

DUS testing - Cucumber, Lettuce, Melon, Pepper, Tomato - Cycle 1.

SEV-DHS-POTMAJ1

Price

2110.00

DUS testing - Cucumber, Lettuce, Melon, Pepper, Tomato - Cycle 2.

SEV-DHS-POTMAJ2

1990.00

DUS testing - Other vegetables species - Cycle 1.

SEV-DHS-POTMIN1

1420.00

DUS testing - Other vegetables species - Cycle 2.

SEV-DHS-POTMIN2

1325.00

PUBLICATIONS - Contact SNES

Method sheet

Vigour testing - Conductivity - Pea.

VIG-2-M

Germination analysis technical sheet

Evaluation of Carrot seedlings.

GE-T-CAR

Evaluation of Cabbage seedlings.

GE-T-CHOU

Evaluation of Bean seedlings.

GE-T-HAR

Evaluation of Lettuce seedlings.

GE-T-LAI

Evaluation of Onion seedlings.

GE-T-OIG

Evaluation of Pea seedlings.

GE-T-POI

Evaluation of Radish seedlings.

GE-T-RAD

Evaluation of Tomato seedlings.

GE-T-TOM

Technical sheet for analysis of specific purity and counting of all other seeds

Pisum sativum, *Vicia faba*.

AP-C-8

Cicer arietinum.

AP-C-12

Allium sp. (*Allium cepa*, *Allium porrum*, *Allium schoenoprasum*).

AP-C-13

Solanaceae. (*Solanum lycopersicum*, *Solanum melongena*, *Capsicum annuum*).

AP-C-14

Daucus carota, *Petroselinum* sp.

AP-C-15

Cucurbitaceae. (*Curcubita* spp., *Cucumis* spp., *Citrullus lanatus*).

AP-C-16

Identification data sheet of seeds and other impurities

Asteraceae (*Anthemis arvensis*, *Glebionis segetum*, *Chicorium* sp., *Tripleurospermum inodorum*, *Helminthotheca echioides*, *Lapsana communis*, *Lactuca sativa*, *Sonchus* spp., *Cirsium arvense*, *Cirsium vulgare*, *Centaurea cyanus*).

AP-A-06

Insects identification

Bruchus pisorum - Faba, Bean, Pea.

AP-P-04

Bruchus rufimanus - Faba, Bean, Pea.

AP-P-05

Acanthoscelides obtectus - Faba, Bean, Pea.

AP-P-06

Collection of seeds

Weed's identification for *Pisum sativum* and *Vicia faba* analysis.

APCS-PIS-S

Weed's identification for Vegetables analysis.

APCS-VEG

Ornamental and Fruit crops

SEED QUALITY				
Physical quality				
		Size	Duration	Price
Thousand-seed weight				
Thousand-seed weight on pure seeds on purity test performed by SNES.	MMS-01	/	/	34.00
Purity analysis test				
Purity - Fruit crops, Ornamentals.	PU-IS-18	ISTA weight	/	34.50
Percentage of a specific type of other seeds. Specify the species to be mentioned.	PU-CONS1	/	/	9.40
Percentage of a specific type of inert materials. Specify the species to be mentioned.	PU-CONS2	/	/	9.40
Supplement for purity analysis if received as raw seeds.	PU-LB-SUP		Contact SNES	
Counting of all other seeds				
Full counting - Fruit crops, Ornamentals.	SP-IS-17	ISTA weight	/	144.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	14.00
Limited counting of all other seeds				
Determination of a specific kind of other seeds, by number. Specify the species to be mentioned.	SP-CONS-1 NEW	/	/	9.40
Determination of a specific kind of inert materials, by number. Specify the species to be mentioned.	SP-CONS-2 NEW	/	/	9.40
Searching of 1 to 4 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-01	ISTA weight	/	66.00
Searching of 5 to 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-02	ISTA weight	/	106.00
Searching of more than 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-19		Contact SNES	
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method (except Soybean).	TE-SN-01	ISTA weight	/	21.50
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	36.00
Insects detection				
Insect detection in a seed sample.	ID-INS-01 NEW	/	/	84.00
Physiological quality				
		Size	Duration	Price
Germination test on 400 seeds				
Trees, Shrubs.	GE-FG-24-4 NEW	1 250	/	99.00
Flowers.	GE-FG-20-4	1 250	/	79.00
Germination test on 200 seeds				
Trees, Shrubs.	GE-FG-24-2 NEW	500	/	78.00
Flowers.	GE-FG-20-2	500	/	63.00
Germination tests on bulbs and bulblets				
On 400 seeds.	GE-BULB-4	1 250	/	157.00
On 200 seeds.	GE-BULB-2	500	/	127.00
Tetrazolium viability test on 400 seeds - For results within a week, reception of seeds on Tuesday at the latest.				
Oak, Dogwood, Olive, Hazelnut, Walnut.	GE-TZ-3-4	500	/	228.00
Hornbeam, Maple, Ash, Stone fruits, Beech, Lavender, Rosemary.	GE-TZ-2-4	500	/	192.00
Amelanchier, Conifers, <i>Ligustrum</i> , Mahonia, Apple, Pear, Sorbier, .	GE-TZ-1-4	500	/	181.00
Tetrazolium viability test on 200 seeds - For results within a week, reception of seeds on Tuesday at the latest.				
Oak, Dogwood, Olive, Hazelnut, Walnut.	GE-TZ-3-2	300	/	156.00
Hornbeam, Maple, Ash, Stone fruits, Beech, Lavender, Rosemary.	GE-TZ-2-2	300	/	132.00
Amelanchier, Conifers, <i>Ligustrum</i> , Mahonia, Apple, Pear, Sorbier, .	GE-TZ-1-2	300	/	121.00

Ornamental and Fruit crops

Physiological quality

		Size	Duration	Price
Tetrazolium viability test on 100 seeds - For results within a week, reception of seeds on Tuesday at the latest.				
Oak, Dogwood, Olive, Hazelnut, Walnut.	GE-TZ-3-1	200	/	121.00
Hornbeam, Maple, Ash, Stone fruits, Beech, Lavender, Rosemary.	GE-TZ-2-1	200	/	97.00
Amelanchier, Conifers, <i>Ligustrum</i> , Mahonia, Apple, Pear, Sorbier, .	GE-TZ-1-1	200	/	84.00
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	9.80

Nematology

		Size	Duration	Price
Bulbs, bulblets, corms, rhizomes, tubers				
<i>Ditylenchus dipsaci</i>				
Filtration and morphological identification (method Anses MOA013 parts A COFRAC and B COFRAC). UNTREATED seeds only.	PA-NE-BULB	50 units	16 days	138.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				

EVALUATION OF VARIETIES

Genotyping by molecular biology

		Size	Duration	Price
Apricot, Cherry tree, Hydrangea, Kiwi, Hazel tree, Walnut tree, Palm, Peach, Poplar, Apple Tree, Pear Tree, Plum tree, Willow				
Varietal identity control - SSR.	BI-G-BM-SSR-CID-1		Contact BioGEVES	
Quince				
Varietal identity control - SSR.	BI-G-BM-SSR-CID-9 NEW		Contact BioGEVES	
Palm				
Varietal identity control for export (True-to-type nature).	BI-G-BM-SSR-CID-6		Contact BioGEVES	
Varietal identity control for production (True-to-type nature).	BI-G-BM-SSR-CID-7		Contact BioGEVES	
Poplar				
Varietal identity control among french cultivars.	BI-G-BM-SSR-CID-8		Contact BioGEVES	

Bud sample for genotyping

		Price
Cost of sampling for 1 INRAE site and 1 applicant/breeder.	SEV-ECHF-FOR	395.00
Cost for 1 sampled variety.	SEV-ECHF-VAR	43.00
Packaging by INRAE examiner for 1 site and for 1 to 5 varieties.	SEV-ECHF-COND5	158.00
Packaging by INRAE examiner for 1 site and for 6 to 10 varieties.	SEV-ECHF-COND10	315.00
Packaging by INRAE examiner for 1 site and for 11 to 50 varieties.	SEV-ECHF-COND50	655.00
Cost of sending for 1 site (possible to pick the samples directly on the site).	SEV-ECHF-ENV	130.00

Field tests by SEV

		Price
DUS testing - Fruit trees and rootstock - New variety, installation year.	SEV-DHS-FRU1	1200.00
DUS testing - Fruit trees and rootstock - New variety, following years.	SEV-DHS-FRU2	2400.00
DUS testing - Ornamentals species.	SEV-DHS-ORN	3000.00
DUS testing - Vine - Year 1, 2, 3.	SEV-DHS-VIG1	1155.00
DUS testing - Vine - Year 4, 5.	SEV-DHS-VIG2	2310.00

PUBLICATIONS - Contact SNES

Identification data sheet of seeds and other impurities

Lathyrus spp. (*Lathyrus sylvestris*, *Lathyrus latifolius*, *Lathyrus hirsutus*, *Lathyrus tuberosus*, *Lathyrus odoratus*, *Lathyrus aphaca*, *Lathyrus pratensis*, *Lathyrus sativus*, *Lathyrus cicera*).

AP-A-05

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight				
Thousand-seed weight on pure seeds on purity test performed by SNES.	MMS-01	/	/	34.00
Purity analysis test				
Purity - Aromatic, Medicinal.	PU-IS-18	ISTA weight	/	34.50
Percentage of a specific type of other seeds. Specify the species to be mentioned.	PU-CONS1	/	/	9.40
Percentage of a specific type of inert materials. Specify the species to be mentioned.	PU-CONS2	/	/	9.40
Supplement for purity analysis if received as raw seeds.	PU-LB-SUP		Contact SNES	
Counting of all other seeds				
Full counting - Aromatic, Medicinal.	SP-IS-17	ISTA weight	/	144.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	14.00
Limited counting of all other seeds				
Determination of a specific kind of other seeds, by number. Specify the species to be mentioned.	SP-CONS-1 NEW	/	/	9.40
Determination of a specific kind of inert materials, by number. Specify the species to be mentioned.	SP-CONS-2 NEW	/	/	9.40
Searching of 1 to 4 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-01	ISTA weight	/	66.00
Searching of 5 to 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-02	ISTA weight	/	106.00
Searching of more than 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-19		Contact SNES	
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method (except Soybean).	TE-SN-01	ISTA weight	/	21.50
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	36.00
Insects detection				
Insect detection in a seed sample.	ID-INS-01 NEW	/	/	84.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Aromatics and medicinals.	GE-FG-22-4 NEW	1 250	/	75.00
Germination test on 200 seeds				
Aromatics and medicinals.	GE-FG-22-2 NEW	500	/	60.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Dill, Coriander, Parsley - Detection of 1 pathogen				
<i>Pseudomonas viridiflava</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-104	30 000	26 days	326.00
<i>Pseudomonas syringae</i> pv. <i>apii</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-106	30 000	36 days	289.00
<i>Pseudomonas syringae</i> pv. <i>coriandricola</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-107	30 000	26 days	301.00
<i>Candidatus liberibacter solanacearum</i>				
Detection by PCR.	PA-BA-CAND	20 000	10 days	141.00
Dill, Coriander, Parsley - Detection of 2 pathogens				
<i>Pseudomonas syringae</i> pv. <i>apii</i> + <i>Pseudomonas syringae</i> pv. <i>coriandricola</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-108	30 000	26 days	373.00
<i>Pseudomonas syringae</i> pv. <i>apii</i> + <i>Pseudomonas viridiflava</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-109	30 000	26 days	382.00

Bacteriology - Uncoated seeds only				
		Size	Duration	Price
Dill, Coriander, Parsley - Detection of 2 pathogens				
<i>Pseudomonas syringae</i> pv. <i>coriandricola</i> + <i>Pseudomonas viridiflava</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-110	30 000	26 days	382.00
Dill, Coriander, Parsley - Detection of 3 pathogens				
<i>Pseudomonas syringae</i> pv. <i>apii</i> + <i>Pseudomonas syringae</i> pv. <i>coriandricola</i> + <i>Pseudomonas viridiflava</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-111	30 000	26 days	439.00

Mycology - See p.8 "Seed health"				
		Size	Duration	Price
Dill				
<i>Stemphylium botryosum</i>, <i>Alternaria radicina</i> (<i>Stemphylium radicinum</i>) and/or <i>carotiincultae</i>, <i>Fusarium</i> sp. (<i>Discolor</i> section and other sections), <i>Botrytis</i> sp.				
Agar method without superficial disinfection.	PA-ES-ANF	400	19 days	110.00
Basil				
<i>Fusarium oxysporum</i>, <i>Fusarium</i> (<i>Discolour</i> section), <i>Fusarium</i> sp., <i>Botrytis</i> sp.				
Agar method without superficial disinfection.	PA-ES-BAS	400	19 days	110.00
<i>Peronospora</i> sp.				
Grow-out test.	PA-MIBASGO	400	42 days	134.00
	PA-MIBASG3	3 000	42 days	271.00
Lavender				
<i>Phomopsis lavandulae</i>, <i>Botrytis</i> sp., <i>Fusarium</i> sp., <i>Phoma</i> sp.				
Agar method without superficial disinfection.	PA-ES-LAV	400	19 days	110.00
Parsley				
<i>Septoria petroselini</i>				
Direct visual observation. UNTREATED seeds only.	PA-SE-PER	1 000	15 days	87.00
Direct visual observation + counting. UNTREATED seeds only.	PA-SE-PERD	1 000	15 days	105.00
<i>Plasmopara nivea</i>				
Seed wash method. UNTREATED seed only.	PA-MI-PER	500	15 days	106.00
<i>Alternaria petroselini</i> (<i>Stemphylium radicinum</i> var. <i>petroselini</i>), <i>Alternaria dauci</i>, <i>Fusarium</i> sp., <i>Botrytis</i> sp.				
Agar method without superficial disinfection.	PA-ES-PER	400	19 days	91.00

EVALUATION OF VARIETIES			
Genotyping by molecular biology			
	Size	Duration	Price
Poppy Varietal identity control - SSR.	BI-G-BM-SSR-CID	Contact BioGEVES	
Technological quality: biochemicals tests			
	Size	Duration	Price
Stevia Steviosid and rebaudiosid A content by high performance liquid chromatography (HPLC).	BI-B-HPLC-STEV	Contact BioGEVES	
Field tests by SEV			
			Price
DUS testing - Aromatic, Medicinal plants.	SEV-DHS-AROMED		3000.00

Micro-cleaning

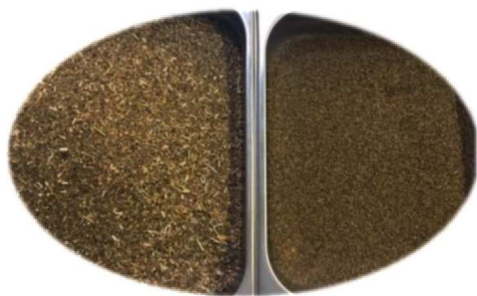
Micro-cleaning of seed lots consists in determining the percentage of waste in raw seed lots, from a harvest, using sorting machines, laboratory replicates of industrial machines.

This activity enables the establishment of an optimal sorting diagram for the seed lot. It is an essential step in defining the industrial process for quality sorting in the factory, whatever the species. Moreover, the commercial value of a lot is estimated through precise knowledge of its quality.

HOW IS IT DONE?

Each species has his own morphological characteristics. Each morphological characteristic is associated with a sorting device, which settings are adjusted very precisely.

The complete sorting of a seed lot is carried out on a sorting line composed of several sorting machines ensuring complementarity on many criteria. To achieve the defined standards, the knowledge of characteristics, the expertise and the know-how of operators are essential.



Sorting on a raw batch of carrot before/after micro-cleaning

EQUIPMENTS

The SNES owns 20 different types of equipment's to clean every type of seeds. Our training and expertise contribute to produce quality sorting, representative of the work provided in the factory. After the various sorting operations, analyses of specific purity and germination capacity can also be carried out at the SNES to ensure the quality of the seed lot.

Micro-cleaning for 1kg maximum – Contact SNES

Standard protocol with compliance with standards, use of micro sorting devices identical to ndustrial sorting.

Beets.	MN-SN-01
Carrot.	MN-SN-03
Cereals.	MN-SN-07
Chicory.	MN-SN-09
Cucurbits, Beans, Peas.	MN-SN-02
Small legumes, cocksfoot, fescue.	MN-SN-10
Quinoa.	MN-SN-08
Flower seeds.	MN-SN-06
Pre-sorted flower seeds.	MN-SN-06B
Other vegetables.	MN-SN-04
Other large crop species.	MN-SN-05
Supplement for non-pre-sorted or dirty lots per hour	MN-SN-11

Requests for information or analyses: contact.mn@geves.fr

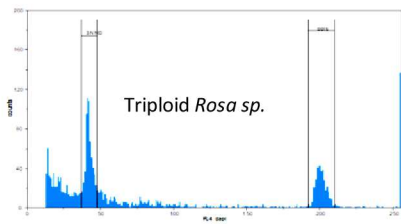
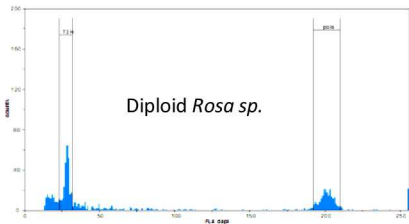
Evaluation of ploidy level from plants or seeds.

Cytology analyses carried out by the SNES aim to determine the level of ploidy by chromosome counting of root meristematic cells and/or flow cytometry. Ploidy defines the number of chromosome copies of a cell. The level of ploidy is characteristic of the species or variety. These analyses can be carried out from seeds or from plants on many species.

FLOW CYTOMETRY

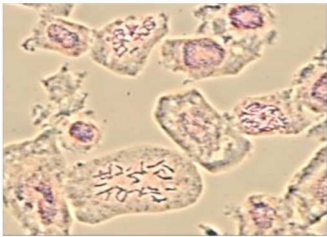
Flow cytometry is a technic based on the marking of DNA with fluorochromes. The cytometer allows a precise measurement of the amount of fluorescence emitted by the cells after marking and excitation by a light beam. The measurement of the quantity of fluorescence emitted will then be compared to a control with a known level of ploidy. This will allow to conclude on the ploidy level of the tested sample.

Flow cytometry is mainly used to determine the level of ploidy of a series of plants and variety. In some cases, flow cytometer is also used to identify species with a very similar morphology or mutilated or poorly formed seeds.

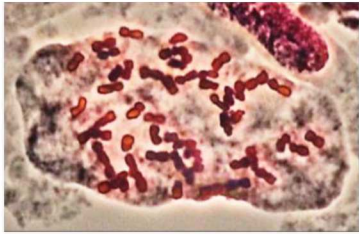


MICROSCOPY

Chromosomal counting by microscopy is a technic that also makes it possible to define the level of ploidy. This is an essential step for species which do not have a reference for cytometry. Chromosome counting is carried out on meristematic root cells whose mitotic division has been blocked at the metaphase stage. The chromosomes are then observed and counted using a phase contrast microscope.



Metaphase cells of Festulolium



Metaphase cells of Gardenia

Requests for information or analyses: contact.cyto@geves.fr

Radiography 2D and tomography

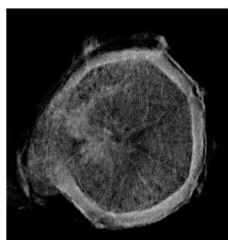
Tools for evaluating seed quality.

WHY USE 2D OU 3D RADIOGRAPHY?

Radiography is a non-destructive method that allows the internal morphology of seeds to be visualised. The objective is to understand or predict problems of physical or germinative quality. This tool also allows the phenotyping of precise characters of interest according to the request.

WHAT IS THE DIFFERENCE BETWEEN 2D RADIOGRAPHY AND TOMOGRAPHY?

2D radiography is a method that allows rapid observation of different criterias on seeds (physical damages, empty seeds, insect damages, etc.). This technology allows a qualitative diagnosis of the state of the internal morphology. The Physical Analysis laboratory is ISTA accredited for these analyses.



Empty seed



Physical damages



Insect damages

3D radiography (tomography) is a technology whose method consists of generating a 3D image of the internal structure of an object. This tool applied to seeds allows the measurement of different characteristics and to obtain very precise quantitative data. The possible applications are diverse: characterisation of genotypes/varieties/batches, quantification of pathogen/insect damages, physical damages...



Evaluation of the quality of the coating



Quantification of insect damages



Quantification of cracks on a Corn seed

		Price
2D radiography on seeds without interpretation (per digital image).	RX-IS-03	Contact SNES
2D image interpretation for internal morphological characterisation, the detection of insect/physical damage (%).	RX-SUP-03	Contact SNES
Supply of one 2D image in .jpg format, for a particular determination or for measurements.	RX-SUP-RA	Contact SNES
For any request for information or analysis in 3D tomography:	RX-IS-05	Contact SNES
- Measurements of coating characteristics;		
- Insect damages detection and associated volume measurements;		
- Measurement of internal seed constituents ;		
- Measurement of seed filling rate ;		
- Detection and measurement of mechanical cracks and other damages ;		
- Other measures of interest.		
Visual or automatic image processing.	RX-SUP-05	Contact SNES
Supply of a batch of 2D images in jpg format.	RX-SUP-TO	Contact SNES

Requests for information or analyses: bea-tomographe@geves.fr

Biostimulation, Biocontrol, evaluation of treatment and the realization of tests under controlled conditions



GEVES, member of the Biocontrol Consortium and RMT BESTIM, provides its expertise for the characterization and evaluation of the effect of your treatments applied to seeds or seedlings.

Whether for biocontrol or biostimulant products, physical or chemical treatments, GEVES proposes to support you in the development of suitable evaluation methodologies and/or to carry out tests under controlled conditions. For *in vitro* and/or *in vivo* screening, or for the evaluation of disinfection, protection, stimulation or phytotoxicity effects, of treatment products in preventive and/or curative application.

SNES does not supply seeds or products. The sample size to be provided is 1 000 seeds per modality for selectivity and effectiveness assays. If only effectiveness trials are required, the sample size will be determined in relation to the project and the initial request.

GEVES is a multidisciplinary team of experts in seed quality and varietal resistance evaluation. It develops new evaluation methods in these areas that are recognized internationally. With this expertise, GEVES participates in research programs on biostimulation and biocontrol of seeds.

APPLICATION OF PRODUCTS ON SEEDS

Treatment of seeds is possible depending on the type of treatment and use. For more information, please contact SNES.
Depending on the quantity of seeds to be treated and the formulation of the product, 3 different tools can be used: Orbital agitator (20 g, liquid formulation); Hege bowl (500 g); Satec Concept treatment machine (up to 2 kg).

		Price
Application of a seed treatment product by SNES in the case of a treatment evaluation.	GE-APPLI	47.80

SELECTIVITY TESTS

		Price
To check the selectivity of a treatment, the germination test should be determined on 400 seeds.		
Cereals.	GE-FG-01-4	53.00
Vegetables (except species below).	GE-FG-18-4	68.00
Vegetables - Celery, Faba bean, Corn salad, Parsley.	GE-FG-22-4	75.00
Oilseeds - Rapeseed.	GE-FG-17-4	56.00
Oilseeds - Sunflower.	GE-FG-16-4	62.00

The percentage of seedlings showing phytotoxicity symptoms can be provided specifically.		
All species.	GE-FG-PCPL	24.00

EVALUATION OF TREATMENTS FOR SEED AND PLANT PROTECTION

		Contact
Evaluation of phytochemical products.	PA-EVAL-CHI	service.clients@geves.fr
Evaluation of biocontrol products, physical treatments and disinfection process.	PA-EVAL-BI	

Few examples of available pathosystems⁴

Wheat	<i>Microdochium nivale.</i> <i>Tilletia caries.</i> <i>Fusarium</i> spp. (<i>Fusarium graminearum</i> , <i>Fusarium avenaceum</i> , <i>Fusarium culmorum</i>). <i>Puccinia striiformis</i> , <i>Puccinia triticina.</i> <i>Pythium irregulare.</i>	Maize	<i>Fusarium graminearum.</i> <i>Fusarium verticillioides.</i> <i>Pythium ultimum.</i> <i>Rhizoctonia solani.</i>
		Sunflower	<i>Botrytis cinérea.</i> <i>Plasmopara halstedii.</i> <i>Verticillium dahliae.</i> <i>Fusarium moniliforme.</i>
Rapeseed	<i>Plasmodiophora brassicae.</i> <i>Phoma lingam.</i> <i>Fusarium oxysporum conglutinans.</i> <i>Alternaria brassicicola.</i>	Lettuce	<i>Fusarium oxysporum</i> race 1 et 4.
Beet	<i>Aphanomyces cochlioides.</i> <i>Pythium</i> sp.	Tomato	<i>Meloidogyne incognita.</i> <i>Rhizoctonia solani.</i>
Cabbage	<i>Hyaloperonospora brassicae.</i>	Spinach	<i>Pythium aphanidermatum</i>

⁴Available pathosystems presented in evaluation of varieties as well as in seed health quality are all adaptable for evaluation of treatments.

EVALUATION OF BIOSTIMULANT PRODUCTS FOR GERMINATION AND/OR SEEDLING GROWTH

Two types of trials can be performed either under favourable conditions for the plant species (i.e. those applied in selectivity trials), or under penalizing conditions (i.e. abiotic stress).

		Price / Contact
Monitoring of seed germination on 200 seeds		
Germination energy (intermediate count; in addition to germination capacity).	GE-EG	20.700
Counting dates for energy vary according to the species.		
Germination kinetics by image analysis (average rate of germination, kinetic curve).	GE-CI	sylvie.ducournau@geves.fr

Biostimulation, Biocontrol, evaluation of treatment and the realization of tests under controlled conditions



Seedling development tests

Corn root length evaluation after 7 days germination at 15°C (4 replicates of 20 seeds).	GE-RAC	80.00
Dry biomass of 4 replicates of 20 seedlings after germination test.	GE-BIOM	57.00
Total length and root classification per diameter (4 replicates of 20 seedlings).	GE-CLASS	78.00
Growth kinetics by image analysis (Eloncam bench).	GE-ELON	sylvie.ducournau@geves.fr

Disease test supplies : inoculum and reference material

The available pests are listed on www.geves.fr. Specific preparation of isolate can also be done in the form of inoculum or artificially contaminated seeds.
Warning: For the handling of quarantine pests, laboratories must be authorised to hold (Regulation 2019/829)

Pests' inoculum		Price
One tray of 140 seedlings infected by a race of stripe/yellow rust (<i>Puccinia striiformis</i>). Contact jean-philippe.maigniel@geves.fr .	PA-AD-ROU2	136.00
Contact SNES		
Suspension of <i>Ditylenchus dipsaci</i> larvae (exemple of price: 1 335€ to inoculate 9000 plants).	PA-AD-DIT	/
Inoculum supplied in Petri dishes.	PA-AD-INOC	/
Inoculum supplied as contaminated cotyledons, plants or fresh leaves.	PA-AD-INOP	/
Inoculum supplied in artificially contaminated grains that have lost germination capacity or artificially contaminated seeds that have maintained a germination capacity.	PA-AD-INOG	/
Inoculum supplied in liquid suspension.	PA-AD-INOL	/
Cyst of <i>Globodera pallida</i> ⁴⁰ or <i>Globodera rostochiensis</i> ⁴⁰ .	PA-AD-GLO	/
Cyst of <i>Heterodera schachtii</i> .	PA-AD-HET	/

Reference material: pests		Price
Pest isolates and populations		
Specific preparation of reference isolate in Petri dishes (2 dishes/strain), dessicated (Bos) (1 g) or population of free living nematodes or cysts (around 20).	PA-AD-FOU	175.00
Specific preparation of 5 g of galls of <i>Meloidogyne incognita</i> (for inoculation of 15 to 20 plantlets).	PA-AD-MEL	188.00
Specific preparation of 5 g of galls of <i>Plasmodiophora brassicae</i> (for inoculation of 50 to 100 plantlets).	PA-AD-PLAD	188.00
100 mg of a vial of spores of stripe rust (<i>Puccinia striiformis</i>) or brown rust (<i>Puccinia recondita</i>) or crown rust (<i>Puccinia coronata</i>).	PA-AD-ROU	65.00
50 to 100 seeds of germinated Sunflower seeds contaminated by <i>Plasmopara halstedii</i> (downy mildew).	PA-AD-TOU2	188.00
Lettuce seedlings infected with 1 race of <i>Bremia lactucae</i> , 30 cotyledons in the test period.	PA-AD-BREM	188.00
<i>Erysiphe pisi</i> , 2 seedlings with presence of sporulation.	PA-AD-ERYS	188.00
2 cotyledons of Melon infected by 1 race of <i>Golovinomyces cichoracearum</i> (powdery mildew).	PA-AD-GOL	188.00
2 cotyledons of Melon infected by 1 race of <i>Podosphaera xanthii</i> (powdery mildew).	PA-AD-POD	188.00
2 Lettuce seedlings infected with <i>Nasonovia ribisnigri</i> race Nr: 0 with presence of apterae.	PA-AD-NAS	188.00
30 leaves of Basil contaminated by <i>Peronospora belbahri</i> .	PA-AD-BEL	188.00
Controls/differential hosts vegetables (MATREF) for one sowing unit (1 g for Bremia, 200 seeds for other pathogens)		
Complete pack of differential hosts for <i>Bremia</i> of Lettuce .	PA-HD-BLAI	381.00
Carrot.	PA-HD-CAR	52.00
Squash.	PA-HD-COU	92.00
Cabbage.	PA-HD-CHO	92.00
Bean.	PA-HD-HAR	72.00
Lettuce.	PA-HD-LAI	72.00
Corn salad.	PA-HD-MAC	52.00
Melon.	PA-HD-MEL	92.00
Capsicum.	PA-HD-PIM	106.00
Pea.	PA-HD-POI	72.00
Tomato.	PA-HD-TOM	92.00
Tomato Rootstock.	PA-HD-PGTO	106.00

⁴⁰ Quarantine parasite

INTER-LABORATORY PROFICIENCY TESTS (ILPT)

Inter-laboratory proficiency testing (ILPT) is used to evaluate the ability of a laboratory to perform a method.
 For more information, visit our website www.geves.fr.

The organisation of comparative tests includes planning and delivery of documents to participants, preparation of samples, definition of a reference, interpretation of results and issuing of a final report.
 Not included : supply of seeds cost (billed at actual price).

Inter-laboratory proficiency tests – PT & Other comparisons (basis 10 participants)

	Price / Participant*	Contact
Purity by sample - All species.	From 240.00	eil.semences@geves.fr
Germination by sample - All species.	From 150.00	
Moisture content by sample - All species.	From 205.00	
Thousand-seed weight by sample - All species.	From 210.00	
Seed health.	Contact SNES	
Organisation of inter-laboratory comparisons tests on request.	Contact SNES	
Supply of reference samples for internal laboratory control.	Contact SNES	
Expertise in the case of atypic results on seeds assay or deviation found (control card for recognized laboratories).	Contact SNES	
* Indicative price, may be increased in the event of a low number of participants.		

AUDITS

According to various standards (ISTA, recognition in the context of certification), laboratory audits can be carried out to analyse your organisation.
 One-day audit includes an analysis of a pre-audit file, the conducting of the audit as well as the audit report.
 Contact : Fabienne BRUN (audit.semences@geves.fr).

REFERENCE MATERIALS AND DOCUMENTS SUPPLIES

Find all our publications and reference materials in the different chapters of the price list and on our website www.geves.fr.

TRAININGS - EXPERTISES

	Price	Contact
To apply for training		
Technical training with SNES.	Contact SNES	formation.semences@geves.fr
Seed quality analysis, inter or in-company, at SNES or on-site.		
Technical training with BioGEVES.	Contact BioGEVES	biogeves.analyses@geves.fr
Technical training with SEV.	Contact SEV	rachel.tessier@geves.fr
For the setting up of an expertise in an international context		
Technical expertise and visit.	Contact SNES	secretariat.direction@geves.fr
Collective reading of results		
Collective reading of germination results, details of abnormalities and debriefing of the results reading, per sample.	GE-LECT 110.00	lnr.semences@geves.fr

Terms and Conditions

Article 1 – General Information

The present general terms and conditions of sale apply for services which appear in the GEVES price list (Variety and Seed Study and Control Group), public interest group governed by the constitutive convention of July 17, 1989, having made the object of an approval order dated July 17, 1989 and its modified constitutive convention of April 17, 2014 whose head office is located 25 rue George Morel, CS 90024, 49071 Beaucouzé Cedex FRANCE.

The main official missions of GEVES are to conduct studies or analyses of:

- characterization and/or identification of varieties,
- agronomic quality of varieties,
- physical, physiological and sanitary control of seed.

Article 2 - Object and field of application

The analyses carried out within the framework of any order are in accordance with the present general terms of sale.

The placing of an order implies full acceptance of these general terms of sale which prevail on any other document of the customer, unless otherwise agreed between the customer and GEVES.

Geves reserves itself the right to modify the present general terms of sale.

Article 3 - Orders

3-1) Order taking

The orders are definitive only when the present general terms of sale are full accepted by the legal representative of the customer or any person duly appointed for that purpose.

The customer has to respect the terms of the supply of material described in the GEVES price list.

3-2) Modification of the order

The terms of the orders transmitted to GEVES are irrevocable for the customer, except written acceptance from GEVES. On this assumption, GEVES will not be held anymore by the deadlines agreed upon at the moment of the initial order.

3-3) Refusal of order

If a customer places an order to GEVES, without having carried out the payment of preceding orders despite reminder from GEVES, GEVES can repudiate the order, without the customer being able to claim any allowance, whatever the reason.

GEVES reserves itself the right to refuse any order.

Article 4 - Delivery of the results

4-1) Delivery time

The delivery time of the results are given only on a purely informative and indicative basis; those depending in particular on arrival of the orders, the respect of the conditions of preparation of the samples sent by the customer (weight, number, packing for example), request for more information, or complementary analyses. For each service, useful information is available on the GEVES website (www.geves.fr). In any assumption, the delivery within the deadlines can intervene only if the customer is up to date of his obligations with GEVES.

GEVES shall endeavor to meet agreed deadlines with the customer.

Delays of delivery of results cannot lead to any penalty or allowance, nor to justify the cancellation of the order.

4-2) Terms

The delivery of the results is made by paper form or by electronic way.

4-3) Complaints

The complaints are to be forwarded to the customer service of GEVES whose contact appears in the GEVES price list. GEVES acknowledges to the customer the receipt of the complaint, registers it, analyzes it to decide on an appropriate treatment and guarantees its implementation as soon as possible. GEVES shall inform the plaintiff of the progress of the claim. At the end of the processing of the complaint, the conclusions are notified to the plaintiff.

Article 5 - Return

Except explicit indication of the customer validated by the customer service of GEVES whose references are indicated on the GEVES price list, no material submitted for analysis will be returned to the customer.

Article 6 - Guarantee - Liabilities

6-1) Scope

GEVES provides services. As such, GEVES is under the obligation of best effort. It could not be held responsible for non-satisfactory results from the point of view of the customer, for causes of which it does not have the control. GEVES will have, if necessary, to issue reserves on the results.

6-2) Exclusions

If the elements provided by the customer do not allow the fulfillment of the ordered service, GEVES will inform the customer. If this situation persists, the liability of GEVES could in no way be required.

In particular, GEVES could not be held responsible for sampling (except for Orange ISTA Certificates for which GEVES is responsible for sampling), the collecting, the conditioning and the transport of the samples, which is the customer's entire liability. Moreover, the samples received at GEVES shall be in good condition of conservation and shall not present identified risk for the staff of GEVES or for the environment. When a phytosanitary treatment has been applied, the customer shall inform GEVES.

The customer waives all right to take any action against GEVES for all losses or all direct or indirect damages resulting from the services, as well as in the situation where the services of GEVES would be unsuitable for the uses of the customer.

Article 7 - Tariff - Price

The rates applied to the orders are those indicated in the GEVES price list, unless particular conditions negotiated with GEVES.

Any order made on the basis of a quotation established by GEVES will be taken into account only after signature of the quotation, by the legal representative of the customer or any person duly elected for that purpose.

Prices are indicated exclusive of VAT, based on current rates and will be increased by current taxes of all types on the invoicing date.

Amounts are indicated in Euros. Payments should be made in Euros.

The transport fees of the samples provided to GEVES for analysis are always at the charge of the customer. For more information : <https://www.geves.fr/information-for-all-species/recommendations-for-sending-seeds-and-seedlings-to-geves/>

Article 8 - Invoicing

Any order, even if it is cancelled during the execution of the service, will give rise to an invoice. Elements of identification of the customer and ordered services are indicated on the invoices. The customer service of GEVES whose references appear in GEVES price list can be contacted for any question related to the invoice.

Article 9 - Payment

9.1) – Time for payment

The maximum payment time is 60 days from the date of emission of the invoice.

9.2) – Terms

The payments shall be made:

- by French postal or bank check or credit or postal transfer addressed to: GEVES, 25 rue George Morel, CS 90024, 49071 Beaucouzé Cedex FRANCE

- by signed and accepted draft or promissory note.

GEVES does not authorize any discount for cash payment or on a former date to those resulting from these general terms of sale.

9.3) - Delay of payment

Any sum still not paid at the due date by the customer will give rise to the payment of penalties at the rate of the European Central Bank plus 10 points and a lump sum of 40 Euros for recovery costs in compliance with Decree n° 2012-1115. These penalties are payable automatically without prior notice from GEVES on the date following the due date. Moreover, GEVES reserves itself the faculty to apply to the competent court of law to stop this non-fulfillment, under penalty per day of delay.

Article 10 - Confidentiality - Rights of ownership

GEVES guarantees the confidentiality of the results of analysis, unless the detection of a quarantine pathogen. Under such circumstances, GEVES has to communicate immediately to the qualified services of the ministry in charge of agriculture all information relating to the material in which the quarantine pathogen was identified.

This exception also applies to other situations, such as the detection of fortuitous presence of GMO, if the regulation in force imposes to GEVES to communicate information to the qualified services of the French State.

The results provided by GEVES can in no way being modified, reproduced or diffused even in a partial way, to third party, without the preliminary authorization of GEVES. The reports provided by GEVES' laboratories can in no way being modified, reproduced or diffused in a partial way, to third party, without the preliminary authorization of GEVES. Duplicates can be obtained on request at the customer service of GEVES whose references are indicated on GEVES price list.

Article 11 - Personal data

For any processing of personal data carried out in connection with this Quotation, the Parties shall comply with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, as transposed into French Law No 2018-493 of 20 June 2018.

Each Party represents and warrants to the other Party that it will strictly comply with GDPR for any processing of personal data in connection with this Quotation.

Personal data collected and processed by the Parties in the context of this contractual relation are necessary for its execution (legal basis). They are kept for a period of 10 years (retention period) from the date of the end of the Quotation.

Article 12 – Agreement of proof

In accordance with Articles 1316-1 to 1316-4 of the Civil code, documents in electronic form are admitted as evidence in the same way as paper-based documents.

The Parties expressly agree that this Quotation concluded in electronic form and signed in a dematerialized way, as well as the documents relating to it:

- Constitute the original documents ;
- Are drawn up and kept under conditions that guarantee their integrity ;
- Are perfectly valid between them. As such, the Parties undertake not to challenge the validity, enforceability or probative value of this Quotation and the documents relating to it on the basis of their conclusion or transmission by electronic means ;
- Constitute written evidence within the meaning of the aforementioned Articles 1316-1 to 1316-4 of the Civil Code. Thus, this Quotation concluded by electronic means is deemed to be evidence of the content of the Quotation, of the identity of the signatories and of their consent to the obligations arising from the Quotation.

Article 13 - Force majeure

The emergence of a case of force majeure causes the suspension of the execution of the obligations of GEVES.

Article 14 - Attribution of jurisdiction

For all disputes relating to the services carried out by GEVES, including those relatives to the interpretation of the general terms of sale, the jurisdictions of Angers shall be qualified.

Article 15 - Applicable law

The present general terms of sale, and any question which it would omit to treat, shall be exclusively governed by the French law.

By appending his signature on the Quotation, the customer:

- recognizes and accepts without reserve the present general terms of sale and that those will apply to all the further orders until communication of new general terms of sale by GEVES,
- declares that he has read and accepts them,
- waives its own purchasing conditions.

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Our publications and Reference material



More information at www.geves.fr

Contact : lnr.semences@geves.fr



GEVES
Expertise & Performance

Groupe d'Étude et de contrôle
des Variétés Et des Semences