



GEVES PRICE LIST 2024

vegetable - ornamental - aromatic - fruit

Variety and Seed Study and Control Group



GEVES

Expertise & Performance
























GEVES

Expertise & Performance

SUMMARY

	GEVES in a few words	3
	Role and quality	4
	Place an order	5
	Your contacts at GEVES	6
	Supply of samples to the SNES	7
	Order an analysis	9
	All Species	10
	Seed mixture species	14
	Vegetables	15
	Ornamental and Fruit crops	31
	Aromatic medicinal	33
	Micro-cleaning	35
	Cytology	36
	Radiography 2D and tomography	37
	Biostimulation, Biocontrol, evaluation of treatment	38
	Disease test supplies : inoculum and reference material	39
	Sector support	40
	Terms and Conditions	41
	Publications	42

GEVES: A unique &

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 and Food (MAA) - 20%



The French Interprofessional Organisation for Seeds and Plants - 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.

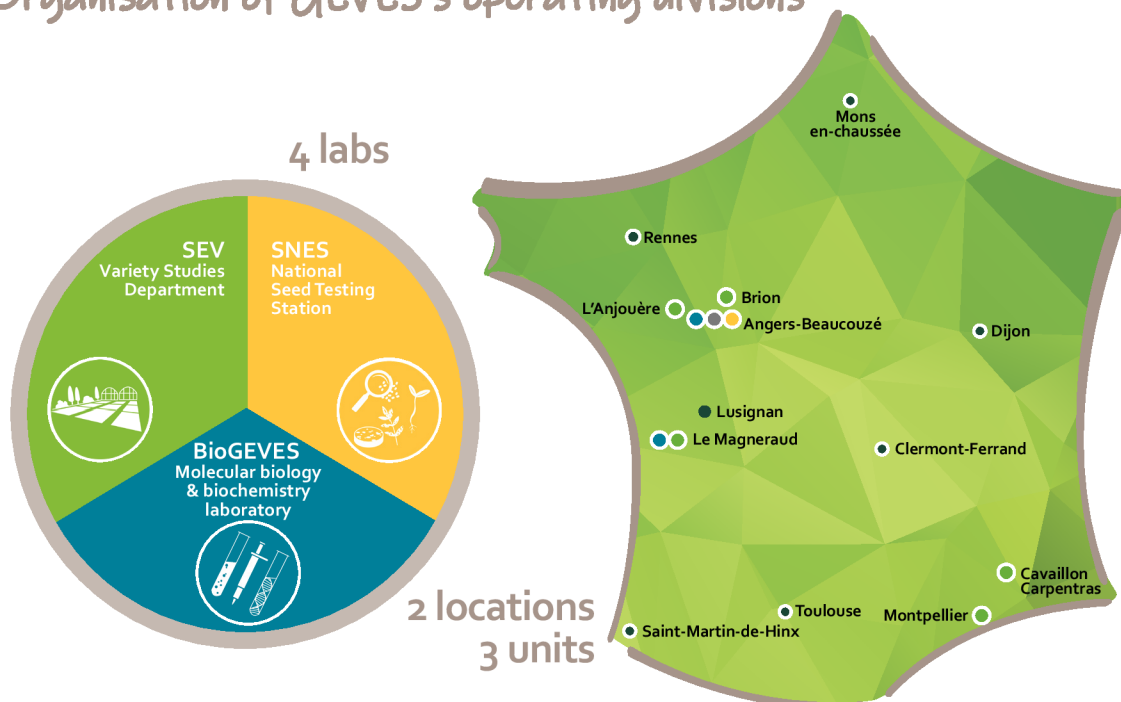
Governance of GEVES

GEVES's Executive Board of Directors is composed of 13 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: GMOs 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
- ▶ in the field of 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: for phytosanitary passports and certificates as well as 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.

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

FOCUS



Quality, Recognition & Accreditation

GEVES benefits from a global and harmonised Quality Management System.

GEVES is recognised as follows:

- ▶ Certification ISO 9001: version 2015 - 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
- ▶ Entrusted by the CPVO for DUS variety testing since 2012.

Seed quality testing **SNES**



ORDER YOUR ANALYSE ONLINE

<http://dsn.geves.info>

- Enter your order
- Print the order summary and attach it to your sample

For faster processing of your request, please order online



SEND YOUR ORDER VIA POST

- Complete the form corresponding to your order (OIC request or analysis order form) and join the form to your sample
- Send the sample to:
GEVES - Service clients SNES
3 rue Henri Becquerel - CS 90024
49071 Beaucouzé Cedex
FRANCE

Biomolecular and biochemical testing **BioGEVES**



ORDER YOUR ANALYSE ONLINE

biogeves.analyses@geves.fr



SEND YOUR ORDER VIA POST

- Send the sample to:

Detection Unit

BioGEVES

3 rue Henri Becquerel - 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 the **SEV**



REQUEST A DENOMINATION TEST

christelle.godin@geves.fr



REQUEST A FIELD TEST DUS (Distinction Uniformity Stability)

celine.delarue@geves.fr

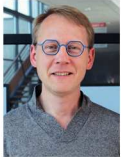
GEVES - Service clients SEV
25 rue Georges Morel - CS 90024
49071 Beaucouzé Cedex
FRANCE

Your contacts at GEVES

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

Sector support
Training courses,
ILC, Audits

Thibaut
Decourcelle
+33 (0)2 41 22 58 17



Fabienne
Brun
+33 (0)2 41 22 58 91



LNR
lnr.semences@geves.fr

ILC :
eil.semences@geves.fr

TRAINING COURSES :
formation.semences@
geves.fr

AUDITS :
audit.semences@
geves.fr

SNES / LNR :

SNES Management



SNES Director
Clotilde Polderman-Roussille
+33 (0)2 41 22 58 10



Assistant
Estelle Bertel
+33 (0)2 41 22 58 02

SNES Customer Services

service.clients@geves.fr



Head of Customer Service and Sampling
Alice Richard Jolly: +33 (0)2 41 22 58 13

- Customer Service SNES

+33 (0)2 41 22 58 28

SNES Technical Contacts



Head of Physical Analysis Laboratory
Aurélie Charrier: +33 (0)2 41 22 58 40

- Radiography 2D/3D
- Purity, micro-cleaning
- Water content
- Botanic

Sherif Hamdy +33 (0)2 41 22 58 30
Philippe Pannetier +33 (0)2 41 22 58 43
Céline Herbert +33 (0)2 41 22 58 30
Diogo Tobolski +33 (0)2 41 22 58 94



Head of Germination Laboratory
Sylvie Ducournau: +33 (0)2 41 22 58 70

- Floral, vegetable, woody, pulses and forest species
- Beetroot, vegetable, forage grasses
- Agricultural crop species

Valérie Blouin +33 (0)2 41 22 58 78
Pierre Soufflet +33 (0)2 41 22 58 82
Philippe Garreau +33 (0)2 41 22 58 77



Head of Pathology Laboratory
Jaiana Malabarba: +33 (0)2 41 22 58 50

- Seed health
- Variety resistance
- Seed treatment evaluation

Isabelle Serandat +33 (0)2 41 22 58 54
Laurent Guyot +33 (0)2 41 22 58 59
Sophie Perrot +33 (0)2 41 22 58 58
Geoffrey Orgeur +33 (0)2 41 22 58 56

BioGEVES :

Caroline
Le Quilliec
+33 (0)5 17 06 96 12



BioGEVES :

biogeves.analyses@geves.fr



Head of BioGEVES
René Mathis
+33 (0)2 41 22 58 34



Customer relationship
Caroline Le Quilliec
+33 (0)5 17 06 96 12



Detection Unit
Amandine Lê Van
+33 (0)2 41 22 58 39



Biochemistry Unit
Patricia Lem
+33 (0)5 17 06 96 13



Genotyping Unit
Arnaud Remy
+33 (0)5 17 06 96 17

SEV :

Rachel
Tessier
+33 (0)2 41 22 85 93



Contacts SEV :



Head of SEV
Fabien Masson
+33 (0)2 41 22 85 91

SEV Customer Service



Céline Delarue
+33 (0)2 41 22 86 00
(field trials)



Christelle GODIN
+33 (0)2 41 22 86 93
(Denomination tests)

Supply of samples to the SNES

The following information, listed on the SNES order form, is essential for processing seed samples:

- Treated seed and trade name of product. No treated sample will be accepted for analysis without this information.
- Thousand Seed Weight (TSW). This information is necessary to calculate the weight of sub-samples for bacteriology, mycology and virology. If this information is not indicated, it will be invoiced.
- Sample size. Unless indicated differently, the sample size to be provided is expressed in number of 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.

Please take care to send your seeds in anonymous boxes and/or paper sachets without any labels or commercial names.

The analyses are not performed on GMO samples.

If you wish to make an analysis that is not listed in the price list (species, particular methods, etc.), contact Customer Services who will define with you the work that is adapted to your needs, the feasibility and the cost.



PHYSICAL AND PHYSIOLOGICAL QUALITY

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



SEED HEALTH

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

For OIC request, an ISTA method will be chosen if it exists.

Virology: Certain types of treatment may affect the analysis, seeds should therefore be sent untreated. If seeds has been treated with a virucidal product, please indicate this information on your order form.

Mycology:

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.

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, "sp." means "unidentified species", "spp." means "all species" and the preceding name is the genus. If we cannot determine the species we will give as result the genus name followed by "sp.".

The denomination as sections has become obsolete, so the detection of *Fusarium*, apart from the identification (PA-ID-FUS), will be done by section classification. Some species-specific *Fusarium* will remain denominated with the species name (e.g. *F. oxysporum* on cucurbits).

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'Donnell ; 1999, Benyon *and al.* ; 2000).

Former name	Current sections	Main species
<i>Fusarium roseum</i>	<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>Fusarium sp.</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>Fusarium moniliforme</i>	<i>Liseola</i> ou complexe G. <i>fujikuroi</i>	<i>Gibberella fujikuroi</i> (<i>F. verticillioides</i> , <i>F. subglutinans</i>), <i>F. proliferatum</i>
<i>Fusarium oxysporum</i>	<i>F. elegans</i>	<i>F. oxysporum</i>
<i>Fusarium solani</i>	<i>Martiella - Ventricosum</i>	<i>F. solani</i>

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.	9.70
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.	7.40
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.	41.20
Supplementary certificates, specific presentation of results, priority	
Duplicate certificate for adding manual signature and buffer, in French or English.	NEW 3.10
Summary table of results, or specific presentation of results.	31.50
Raw results on .csv file (request must be entered online on DSN website).	0.00
Priority processing, per sample.	18.90

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
By paper order form	
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. (EC-01 + SCLI-URBI + BU-ABIODE/BU-ABIBDE)	39.00
Supplementary certificates and request for changes	
Provisional international certificate, in French or English.	10.40
Duplicate international certificate, in French or English.	10.40
Adding additional certificates or modification of information on an international certificate (after checking the conformity with ISTA rules).	34.00

To BioGEVES

Handling and results

	Price
Handling	
Handling of the sample for treated seeds.	57.00
Results	
Duplicates analysis certificate except photography.	2.80
New edition of result certificate.	28.10
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	/	41.60
Detailed description of seedlings and seeds on 200 seeds.	GE-FG-DET2	500	/	20.80
Percentage of a particular type of seedling.	GE-FG-PCPL	/	/	23.10
Provision of the result of repetitions.	GE-FG-REP	/	/	13.40
Additional testing time required				
Additional duration of 7 days for a germination test on 400 seeds.	GE-FG-7S4	1 250	/	16.20
Additional duration of 14 days for a germination test on 400 seeds.	GE-FG-14S4	500	/	32.60
Additional duration of 7 days for a germination test on 200 seeds.	GE-FG-7S2	500	/	8.20
Additional duration of 14 days for a germination test on 200 seeds.	GE-FG-14S2	500	/	16.30
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	9.40
Verification of species on pelleted seeds, when only a purity test is requested.	GE-VERIF NEW	/	/	24.00
Tetrazolium viability test (excluding ornamental and fruit species) - For results within a week, reception of seeds on Tuesday at the latest.				
Tetrazolium test on 400 seeds.	GE-TZ-1	500	/	174.00
Tetrazolium test on 200 seeds.	GE-TZ-2	300	/	116.00
Tetrazolium test on 100 seeds.	GE-TZ-3	200	/	81.00
Energy				
Germination energy (intermediate counting; germination capacity supplement). The date of counting for the energy varies according to the species.	GE-EG	500	/	19.90
Vigour tests				
Cold-test on 400 seeds.	GE-CO	1 250	/	69.00
Cold-test on 200 seeds.	GE-CO2	500	/	44.30
Accelerated ageing of 200 seeds including germination capacity.	GE-VIEI-2	500	/	90.00
Controlled deterioration of 200 seeds including germination capacity.	GE-DET-1	500	/	90.00
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	/	57.00
Additional cost for a conductivity test on a treated seed sample.	GE-CON-SUP	/	/	5.40
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	/	/	23.10
Substrate checks				
Determination of the water holding capacity of a substrate including moisture content.	GE-SUB-1	See p.7	/	92.00
Determination of the pH of a substrate.	GE-SUB-2	See p.7	/	59.00
Determination of the conductivity of a substrate.	GE-SUB-3	See p.7	/	59.00
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	/	134.00
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 for bacteriology, mycology and virology tests.	PA-MMS	/	/	33.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Supplement fee for counting of colonies				
1 pathogen in 5 000 seeds.	PA-BA-19 NEW	5 000	/	25.00
1 pathogen in 30 000 seeds.	PA-BA-20	30 000	/	61.00
More than 1 pathogen in 5 000 seeds.	PA-BA-81	5 000	/	39.00
More than 1 pathogen in 30 000 seeds.	PA-BA-82	30 000	/	114.00

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	265.00
Verticillium dahliae				
Agar method.	PA-ES-VERT	400	19 days	106.00
Supplement for spore counting, washing methods				
Counting by classes (0;1-10;11-100;>100).	PA-MY-DCLA	/	/	64.00
Counting by unit.	PA-MY-DEN	/	/	105.00

Nematology

		Size	Duration	Price
Heterodera group schachtii, Heterodera group goettingiana, Heterodera group avenae.				
Detection and identification on soil samples.	PA-NE-SOL1	300 g	30 days	175.00

Other tests

		Size	Duration	Price
Resistance of fungal isolates to fungicides.	PA-AD-01			Contact SNES
Study of the efficacy of seed disinfection/treatment products on medium or by bioassay.	PA-AD-02			Contact SNES
Identification of pathogens isolated and provided on medium - Supply 2 boxes/isolates.	PA-AD-IP	/	19 days	50.00
Isolation of strains from symptoms.	PA-ISOLEM	/	/	50.00
Isolation of strains from seeds.	PA-ISOSEM	/	/	107.00
Identification of pathogens on plant material.	PA-DI-PEC			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	/	/	57.00
Identification based on symptoms.	PA-DI-MICR	/	/	98.00
Mycological identification after incubation.	PA-DI-MY	/	/	200.00
Bacteriological identification after incubation.	PA-DI-BA	/	/	100.00
Confirmation by pathogenicity test.	PA-DI-PP	/	/	122.00
Virological identification by immunological test.	PA-DI-ELIS	/	/	215.00
Virological identification virologic by biotest.	PA-DI-IND	/	/	69.00
Analytical Profile Index (API).	PA-DI-API	/	/	190.00
PCR.	PA-DI-PCR	/	/	121.00

EVALUATION OF VARIETIES

Determination of the identity and the varietal purity

		Size	Duration	Price
Standard protocol.	SEV-CV	/	/	345.00
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

Genotyping by molecular biology

		Size	Duration	Price
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
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: biochemical 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
Antitrypsic 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 NEW			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	215.00
All species - 20 tests.	SEV-DENOS-20	405.00
All species - 50 tests.	SEV-DENOS-50	950.00
All species - 100 tests.	SEV-DENOS-100	1830.00
All species - 200 tests.	SEV-DENOS-200	3580.00

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	
<i>Echinochloa crus-galli</i> , <i>Echinochloa colona</i> , <i>Panicum capillare</i> , <i>Panicum maximum</i> , <i>Setaria pumila</i> , <i>Setaria veridis</i> .	AP-A-01
<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 echioïdes</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	
On request, components are sent separately accompanied with an instructional material. Contact SNES.	KIT-AUTO
I.D.Seed® On-line picture library, an aid to the identification of seeds - In French	
I.D.Seed® - Complete collection. Resgistration on http://mediatheque.geves.fr	IDSEED-1
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>Alternariaster 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	513.00
From 4 components WITH declared composition ² .	PU-MEL-02		Contact SNES	
WITHOUT declared composition.	PU-MEL-03	/	60 days	843.00

Preparation of pure seed for germination testing

Seed mixture (less than 4 components) WITH declared composition ² .	PU-PR-19	/	/	212.00
From 4 components WITH declared composition ² .	PU-PR-22		Contact SNES	
WITHOUT declared composition.	PU-PR-19-1	/	/	508.00
Preparation of pure seeds in dragees on coated seed mixture.	PU-PR-19-2	/	/	35.90

² Provide the % of species in the seed mixture.

Physiological quality ³

Germination test on 400 seeds

Species mixture by component. All the species of the seed mixture will be analyzed whatever is the proportion, except opposite request.	GE-FG-19-4
---	------------

Germination test on 200 seeds

Species mixture by component. All the species of the seed mixture will be analyzed whatever is the proportion, except opposite request.	GE-FG-19-2
---	------------

³ See details of price and size in the chapter of the species.

SEED QUALITY

Physical quality

		Size	Duration	Price
Calibration - Provide seeds in watertight bag				
ISTA method (Denker device): inferior or equal to 6 grills. Provide a 250g watertight sample for naked seeds or 25,000 coated seeds.	MN-DK-CAL1	/	/	41.60
ISTA method (Denker device): superior or equal to 6 grills. Provide a 250g watertight sample for naked seeds or 25,000 coated seeds.	MN-DK-CAL2	/	/	54.00
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	33.00
Purity analysis test				
Purity - Vegetables	PU-IS-18	ISTA weight	/	33.20
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	9.00
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	9.00
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	/	138.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	13.40
Limited counting of all other seeds				
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	/	64.00
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	/	102.00
Searching of more than 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-20		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	/	75.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	75.00
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	/	110.00
Tests on coated seeds				
Purity on coated seeds.	PU-IS-21	2 500	/	34.30
Pelleting material removal and full counting on 2 500 coated seeds. Only on UNTREATED seeds.	SP-ENR2500	2 500	/	102.00
Pelleting material removal and full counting on 7 500 coated seeds. Only on UNTREATED seeds.	SP-ENR-TOT	7 500	/	309.00
Pelleting material removal and limited counting of other seeds from 1 to 3 botanical species, on 7 500 coated seeds. Only on UNTREATED seeds.	SP-ENR-LIM	7 500	/	242.00
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	20.70
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	34.60

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Vegetables (excluding corn salad).	GE-FG-18-4	1 250	/	65.00
Corn salad.	GE-FG-22-4	1 250	/	66.00
<i>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.</i>				
Germination test on 200 seeds				
Vegetables.	GE-FG-18-2	500	/	52.00
Germination test on 100 seeds				
Vegetables.	GE-FG-18-1	500	/	31.30

Physiological quality

		Size	Duration	Price
Additional				
Additional cost for manual sowing of fragile seeds of bean.	GE-FG-HAR	/	/	7.00
Germination tests on bulbs and bulblets				
On 400 seeds.	GE-BULB-4	1 250	/	151.00
On 200 seeds.	GE-BULB-2	500	/	122.00
Lettuce specific cold-test				
On 400 seeds.	GE-EGFG-4	1 250	/	92.00
On 200 seeds.	GE-EGFG-2	500	/	54.00
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	9.40
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	/	57.00
Determination of the rate of usable Tomato plants				
On 400 seeds.	GE-TX-PL-2	500	/	105.00
On 200 seeds.	GE-TX-PL-1	300	/	80.00
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	/	/	23.10

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	219.00
<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	245.00
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	170.00
<i>Pseudomonas corrugata</i> (Pc)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-92	30 000	36 days	295.00
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	346.00
Pst + Pc				
Agar method + identification of strains by pathogenicity test in case of suspect colonies.	PA-BA-127	30 000	36 days	299.00
Eggplant, Pepper, Tomato - Supplement fee pathogenicity test				
X spp				
Confirmation by pathogenicity test of PCR positive isolates.	PA-PP-XPP	/	10 days	76.00
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 NEW	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 NEW	Max 10 000	33 days	228.00
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 NEW	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 NEW	/	33 days	391.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price	
Eggplant, Pepper - Detection of 3 pathogens					
Cmm + Pst + Pc					
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	NEW	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	NEW	Max 10 000	43 days	517.00
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - 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	220.00
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	262.00
Agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019a).	PA-BA-03		30 000	36 days	232.00
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	276.00
<i>Xanthomonas campestris</i> pv. <i>raphani</i> (<i>armoraciae</i>) (Xcr)					
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-29		30 000	36 days	211.00
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-30		30 000	36 days	262.00
<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	266.00
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - 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	266.00
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	316.00
Xcc + Psm					
Agar method + pathogenicity test in case of suspect colonies colonies (ISTA 7-019a without counting of colonies for Xcc).	PA-BA-45		30 000	36 days	324.00
Xcr + Psm					
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-46		30 000	36 days	324.00
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - Detection of 3 pathogens					
Xcc + Xcr + Psm					
Agar method + pathogenicity test in case of suspect colonies colonies (ISTA 7-019a without counting of colonies for Xcc and Xcr).	PA-BA-08		30 000	36 days	378.00
Carrot					
<i>Candidatus liberibacter solanacearum</i>					
Detection by PCR.	PA-BA-CAND		20 000	10 days	136.00
<i>Xanthomonas hortorum</i> pv. <i>carotae</i>					
Agar method with counting of colonies and PCR in case of suspect colonies (ISTA 7-020).	PA-BA-02			Contact SNES	
Carrot, Celery, Fennel, Parsnip					
<i>Xanthomonas hortorum</i> pv. <i>carotae</i>					
Agar method and PCR in case of suspect colonies (in house method ANA/PAT/QS/BA/MO/004)	PA-BA-01		30 000	31 days	293.00
Carrot, Celery, Fennel, Parsnip - Supplement fee pathogenicity test					
<i>Xanthomonas hortorum</i> pv. <i>carotae</i>					
Confirmation by pathogenicity test of PCR positive isolates.	PA-PP-XHC		/	60 days	133.00
Zucchini					
<i>Pseudomonas syringae</i> pv. <i>peponis</i>					
Agar method + identification of strains by PCR in case of suspect colonies.	PA-BA-91	NEW	5 000	36 days	335.00
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	359.00
<i>Pseudomonas viridiflava</i>					
Agar method + confirmation by PCR.	PA-BA-93		5 000	26 days	359.00

Bacteriology - Uncoated seeds only

	Size	Duration	Price	
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 1 pathogen				
Acidovorax citrulli				
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	203.00
	PA-BA-1122	30 000	10 days	336.00
Grow-out, PCR or pathogenicity test in case of suspect symptoms.	PA-BA-112	10 400	37 days	458.00
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 2 pathogens				
Pseudomonas syringae pv. lachrymans + Pseudomonas syringae pv. peponis				
Agar method + pathogenicity test and/or identification of strains by PCR in case of suspect colonies.	PA-BA-89	5 000	36 days	389.00
Cucurbits (Squash, Cucumber, Melon, Watermelon) - Detection of 3 pathogens				
Pseudomonas syringae pv. lachrymans + Pseudomonas syringae pv. peponis + Xanthomonas cucurbitae				
Agar method + pathogenicity test and/or identification of strains by PCR in case of suspect colonies.	PA-BA-89-1	5 000	40 days	450.00
Bean - Detection of 1 pathogen				
Xanthomonas axonopodis pv. phaseoli (Xanthomonas phaseoli pv. phaseoli) and Xanthomonas axonopodis pv. phaseoli var. fuscans (Xanthomonas citri pv. fuscans) (Xap/Xff)				
Agar method, identification of strains by qPCR in case of suspect colonies (COFRAC - in house method ANA/PAT/ANS/MO/015 derived from Anses MOA 030).	PA-BA-13-2	5 000	26 days	191.00
	PA-BA-13-4	30 000	26 days	432.00
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	232.00
Pseudomonas savastanoi pv. phaseolicola (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	216.00
Agar method with counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-023).	PA-BA-44	5 000	34 days	270.00
Bean - Detection of 2 pathogens				
Xap/Xff + Psp				
Detection and identification on symptoms (leaves or pods) by PCR.	PA-BA-94	/	14 days	284.00
SE-PCR with pathogen enrichment, in house method ANA/PAT/QS/BA/MO/015.	PA-BA-13-5	5 000	15 days	310.00
Confirmation of viability and pathogenicity by dilution-plating method on a new sample is possible.				
Agar method + identification of strains by qPCR in case of suspect colonies (COFRAC - in house method ANA/PAT/QS/BA/MO/015 derived from Anses MOA 030 ; and in house method derived from BHs/99/02 respectively).	PA-BA-15-2	5 000	29 days	293.00
	PA-BA-15-4	30 000	29 days	562.00
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	301.00
Bean - Detection of 3 pathogens				
Xap/Xff + Psp + Pss				
Agar method + identification of strains pathogenicity test and/or qPCR in case of suspect colonies (in house method derived from Anses BHs/99/02 ; and COFRAC - in house method ANA/PAT/QS/BA/MO/015 derived from Anses MOA 030 respectively).	PA-BA-17	5 000	39 days	357.00
	PA-BA-18	30 000	39 days	670.00
Bean - Supplement fee pathogenicity test				
Xap/Xff				
Confirmation by pathogenicity test of PCR positive.	PA-PP-XAP	/	21 days	73.00
Psp				
Confirmation by pathogenicity test of PCR positive.	PA-PP-PSPH	/	21 days	78.00
Lettuce - Detection of 1 pathogen				
Xanthomonas vitians (Xav)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-95	30 000	39 days	203.00
Pseudomonas cichorii (Pc)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-97	30 000	39 days	215.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Lettuce - Detection of 2 pathogens				
Xav + Pc				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-98	30 000	39 days	376.00
Corn salad				
Acidovorax valerianellae				
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	/	/	25.00
Pea - Detection of 1 pathogen				
Pseudomonas syringae pv. pisi (Psp)				
Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	PA-BA-21	5 000	26 days	196.00
	PA-BA-70	15 000	26 days	292.00
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-029).	PA-BA-21-1	5 000	32 days	240.00
Pseudomonas syringae pv. syringae (Pss)				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	PA-BA-22	5 000	32 days	215.00
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-84	15 000	32 days	292.00
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	249.00
	PA-BA-85	15 000	36 days	378.00
Pea - Supplement fee pathogenicity test				
Pseudomonas syringae pv. pisi				
Confirmation by pathogenicity test PCR positive isolates.	PA-PP-PSP	/	9 days	78.00
Tomato - Detection of 1 pathogen				
Clavibacter michiganensis subsp. michiganensis (Cmm)				
SE-PCR, ISF current version(COFRAC) (non disinfected seeds only).Confirmation of viability and pathogenicity by dilution-plating method on a new sample is possible	PA-BA-23-6	10 000	12 days	184.00
	PA-BA-23-7	30 000	12 days	259.00
Agar method. (COFRAC - M-GEVES/SV/MO/006).	PA-BA-23-1	30 000	33 days	352.00
Agar method. (COFRAC - M-GEVES/SV/MO/006). Analyse done with 1 subsample on 10 000 seeds maximum.	PA-BA-23-2	Max 10 000	33 days	228.00
Supplement fee. Confirmation by pathogenicity test of PCR positive isolates(COFRAC).	PA-PP-CMM	/	10 days	51.00
Tomato - Detection of 2 pathogens				
Cmm + X spp				
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (COFRAC - M-GEVES/SV/MO/006 ; ISF for <i>Xanthomonas</i>).	PA-BA-125	30 000	33 days	474.00
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (COFRAC - M-GEVES/SV/MO/006 ; 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 + Pc				
Agar method + identification of strains by PCR and/or pathogenicity test in case of suspect colonies (COFRAC - M-GEVES/SV/MO/006 ; ISF for <i>Xanthomonas</i> ; internal method for <i>Pseudomonas</i>).	PA-BA-96	30 000	43 days	562.00
	PA-BA-96-2	/	43 days	517.00
Mycology - See p.8 "Seed health"				
		Size	Duration	Price
Alliaceae (Chive, Onion, Leek)				
Alternaria porri, Botrytis allii and/or aclada, Sclerotium cepivorum (Stromatinia cepivora), Fusarium oxysporum, Pyrenochaeta terrestris (Setophoma terrestris), Fusarium sp. (section <i>Liseola</i> and other sections), <i>Botrytis cinerea</i> , <i>Botrytis squamosa</i>				
Agar method.	PA-ES-OIG	400	19 days	106.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Asparagus				
<i>Fusarium oxysporum</i> , <i>Fusarium</i> (section <i>Discolour</i> and other sections), <i>Botrytis</i> sp. Agar method.	PA-ES-ASP	400	19 days	106.00
Eggplant				
<i>Alternaria solani</i> , <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Fusarium</i> (other sections), <i>Colletotrichum</i> sp., <i>Phomopsis vexans</i> , <i>Botrytis</i> sp., <i>Verticillium</i> sp., <i>Rhizoctonia</i> sp., <i>Didymella</i> sp., <i>Stemphylium</i> sp. Agar method.	PA-ES-AUB	400	19 days	106.00
Brassicaceae (Cabbage, Rape, Turnip, Radish, Rocket)				
<i>Leptosphaeria maculans</i> and/or <i>Plenodomus biglobosus</i> (<i>Phoma lingam</i>), <i>Alternaria brassicae</i> , <i>Alternaria brassicicola</i> , <i>Alternaria japonica</i> , <i>Sclerotinia sclerotiorum</i> , <i>Botrytis cinerea</i> , <i>Phoma</i> sp. Agar method (derivated from ISTA method 7-004).	PA-ES-CHO	400	19 days	106.00
<i>Leptosphaeria maculans</i> and/or <i>Plenodomus biglobosus</i> (<i>Phoma lingam</i>) Agar method (ISTA 7-004).	PA-PH-CHO	1 000	25 days	262.00
<i>Albugo candida</i> Seed wash method. UNTREATED seeds only.	PA-ALB-CHO	500	15 days	102.00
<i>Hyaloperonospora parasitica</i> (downy mildew) Seed wash method. UNTREATED seeds only.	PA-MI-CHO	500	15 days	102.00
Grow-out method (viability testing).	PA-MICHOGO	400	42 days	129.00
Carrot				
<i>Cercospora carotae</i> Seed wash method. UNTREATED seeds only.	PA-CE-CAR	500	15 days	102.00
<i>Alternaria dauci</i> , <i>Alternaria radicina/carotiincultae</i> (<i>Stemphylium radicinum</i>) Agar Method (ISTA 7-001b, 7-002b).	PA-AL-CAR	400	24 days	106.00
<i>Alternaria dauci</i> , <i>Alternaria radicina/carotiincultae</i> (<i>Stemphylium radicinum</i>), <i>Fusarium</i> (all sections), <i>Phoma</i> sp., <i>Botrytis</i> sp. Agar method.	PA-ES-CAR	400	19 days	106.00
<i>Septoria carotae</i> Direct visual observation. UNTREATED seeds only.	PA-SE-CAR	1 000	15 days	87.00
<i>Mycocentrospora acerina</i> Seed wash method. UNTREATED seeds only.	PA-MY-CAR	500	15 days	102.00
Celery				
<i>Septoria apiicola</i> Direct visual observation. UNTREATED seeds only.	PA-SE-CEL	1 000	15 days	87.00
<i>Cercospora apii</i> Seed wash method. UNTREATED seeds only.	PA-CE-CEL	500	15 days	102.00
<i>Alternaria dauci</i> , <i>Alternaria radicina/carotiincultae</i> , <i>Botrytis cinerea</i> , <i>Botrytis</i> sp., <i>Fusarium</i> (all sections) Agar method.	PA-ES-CEL	400	19 days	106.00
Cucumber				
<i>Stagonosporopsis cucurbitacearum</i> (<i>Didymella bryoniae</i>), <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Alternaria cucumerina</i> , <i>Gloeosporium orbiculare</i> (<i>Colletotrichum orbiculare</i>), <i>Fusarium</i> (other sections), <i>Phomopsis vexans</i> , <i>Botrytis</i> sp., <i>Cladosporium</i> sp. Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-COND	400	19 days	110.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-CON	400	19 days	106.00
Squash				
<i>Stagonosporopsis cucurbitacearum</i> (<i>Didymella bryoniae</i>), <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Alternaria cucumerina</i> , <i>Gloeosporium orbiculare</i> (<i>Colletotrichum orbiculare</i>), <i>Fusarium</i> (other sections), <i>Phomopsis vexans</i> , <i>Botrytis</i> sp., <i>Cladosporium</i> sp. Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-COUD	400	19 days	110.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-COU	400	19 days	106.00
Squash, Melon				
<i>Pseudoperonospora cubensis</i> Seed wash method. UNTREATED seeds only.	PA-MI-COUR	500	15 days	102.00
Cress				
<i>Alternaria brassicae</i> , <i>Stemphylium botryosum</i> , <i>Botrytis</i> sp., <i>Phoma</i> sp., <i>Fusarium</i> (all sections) Agar method.	PA-ES-CRE	400	19 days	106.00

Vegetables

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Cress				
<i>Hyaloperonospora brassicae</i> (<i>Peronospora brassicae</i>)				
Seed wash method. UNTREATED seeds only. Watercress (<i>Nasturtium</i>) seeds only.	PA-MI-CRE	500	15 days	102.00
Spinach				
<i>Peronospora farinosa</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-EPI	500	15 days	102.00
<i>Botrytis cinerea</i>, <i>Colletotrichum dematium</i>, <i>Fusarium oxysporum</i>, <i>Fusarium</i> (other sections)				
Agar method.	PA-ES-EPI	400	19 days	106.00
Fennel				
<i>Passalora punctum</i> (<i>Cercosporidium punctum</i>)				
Seed wash method. UNTREATED seeds only.	PA-CE-FEN	500	15 days	102.00
<i>Botrytis cinerea</i>, <i>Fusarium</i> (all sections), <i>Alternaria radicina</i>, <i>Stemphylium botryosum</i>, <i>Phoma</i> sp.				
Agar method.	PA-ES-FEN	400	19 days	106.00
Bean				
<i>Colletotrichum lindemuthianum</i>, <i>Botrytis cinerea</i>, <i>Macrophomina phaseolina</i>, <i>Stemphylium botryosum</i>, <i>Boeremia exigua</i> (<i>Phoma exigua</i>), <i>Colletotrichum truncatum</i>, <i>Phyllosticta phaseolina</i>, <i>Fusarium</i> (all sections), <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	110.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-HARM	400	19 days	106.00
<i>Colletotrichum lindemuthianum</i>				
Blotter roller method (ISTA 7-006).	PA-ESI-HAR	400	19 days	115.00
Lettuce				
<i>Septoria lactucae</i>				
Direct visual observation. UNTREATED seeds only.	PA-SE-LAI	1 000	15 days	87.00
<i>Alternaria dauci</i>, <i>Microdochium panattonianum</i> (<i>Marssonina panattoniana</i>), <i>Stemphylium</i> sp., <i>Botrytis</i> sp., <i>Verticillium</i> sp., <i>Fusarium</i> (all sections)				
Agar method.	PA-ES-LAI	400	19 days	106.00
Corn salad				
<i>Peronospora valerianellae</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-MAC	500	15 days	92.00
Grow-out method (viability testing).	PA-OUT-MAC	400	42 days	116.00
<i>Stagonosporopsis valerianellae</i> (<i>Phoma valerianellae</i>), <i>Botrytis cinerea</i>, <i>Fusarium</i> (all sections)				
Agar method.	PA-ES-MAC	400	28 days	106.00
Melon				
<i>Stagonosporopsis cucurbitacearum</i> (<i>Didymella bryoniae</i>), <i>Gloeosporium orbiculare</i> (<i>Colletotrichum orbiculare</i>), <i>Fusarium solani</i>, <i>Fusarium oxysporum</i>, <i>Fusarium</i> (other sections), <i>Alternaria cucumerina</i>, <i>Botrytis</i> sp., <i>Cladosporium</i> sp.				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-MELD	400	19 days	110.00
<i>Stagonosporopsis cucurbitacearum</i> (<i>Didymella bryoniae</i>), <i>Gloeosporium orbiculare</i> (<i>Colletotrichum orbiculare</i>), <i>Fusarium solani</i>, <i>Fusarium oxysporum</i>, <i>Fusarium</i> (other sections), <i>Alternaria cucumerina</i>, <i>Botrytis</i> sp., <i>Cladosporium</i> sp.				
Agar method without superficial disinfection. Treated seeds only.	PA-ES-MEL	400	19 days	106.00
Onion				
<i>Peronospora destructor</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-OIG	500	15 days	102.00
<i>Urocystis colchici</i> (<i>Urocystis cepulae</i>) (smut)				
Seed wash method. UNTREATED seeds only.	PA-CH-OIG	500	15 days	102.00
Onion (bulblets)				
<i>Alternaria porri</i>, <i>Botrytis allii</i> and/or <i>aclada</i>, <i>Stromatinia cepivora</i> (<i>Sclerotium cepivorum</i>), <i>Fusarium oxysporum</i>, <i>Pyrenochaeta terrestris</i> (<i>Setophoma terrestris</i>), <i>Fusarium</i> sp. (section <i>Liseola</i> and other sections), <i>Botrytis cinerea</i>, <i>Botrytis squamosa</i>				
Agar method with superficial disinfection. UNTREATED bulblets only.	PA-ESOIGBD	200	19 days	119.00
Agar method without superficial disinfection. Treated bulblets only.	PA-ES-OIGB	200	19 days	110.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
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> (other sections), <i>Phomopsis vexans</i> , <i>Botrytis</i> sp., <i>Cladosporium</i> sp.				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-PASD	400	19 days	110.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-PAS	400	19 days	106.00
Capsicum				
<i>Phytophthora capsici</i>				
Seed wash method. UNTREATED seeds only.	PA-MI-PIM	500	15 days	102.00
Capsicum, Pepper				
<i>Colletotrichum truncatum (Colletotrichum capsici)</i> , <i>Fusarium oxysporum</i> , <i>Fusarium</i> (all sections), <i>Colletotrichum coccodes</i> , <i>Sclerotinia sclerotiorum</i> , <i>Botrytis</i> sp., <i>Verticillium</i> sp.				
Agar method.	PA-ES-POIV	400	19 days	106.00
Leek				
<i>Alternaria porri</i> , <i>Botrytis allii and/or Botrytis aclada</i> , <i>Sclerotinia minor</i> , <i>Fusarium moniliforme</i> , <i>Fusarium oxysporum</i> , <i>Fusarium</i> (other sections), <i>Botrytis</i> sp., <i>Stemphylium</i> sp.				
Agar method.	PA-ES-POR	400	19 days	106.00
Pea				
<i>Didymella pisi (Ascochyta pisi)</i> , <i>Didymella pinodes (Mycosphaerella pinodes)</i> , <i>Didymella pinodella (Phoma pinodella)</i> , <i>Stemphylium botryosum</i> , <i>Fusarium</i> (other sections), <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	110.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POI	400	19 days	106.00
<i>Peronospora viciae (Peronospora pisi)</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-POI	500	15 days	102.00
<i>Didymella pisi (Ascochyta pisi)</i>				
Agar method (ISTA 7-005).	PA-ANT-POI	400	19 days	110.00
Chickpea				
<i>Ascochyta rabiei (Phoma rabiei)</i> , <i>Botrytis cinerea</i> , <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Fusarium</i> (other sections)				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-POCD	400	19 days	110.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POC	400	19 days	106.00
Radish				
<i>Hyaloperonospora parasitica (Peronospora parasitica)</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-RAD	500	15 days	102.00
Grow-out method (viability testing).	PA-MIRADGO	400	42 days	129.00
Rocket				
<i>Hyaloperonospora parasitica</i>				
Seed wash method. UNTREATED seeds only.	PA-MI-ROQL	500	15 days	102.00
Tomato				
<i>Alternaria solani</i> , <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Colletotrichum coccodes</i> , <i>Botrytis cinerea</i> , <i>Fusarium</i> (all sections), <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	106.00

Nematology

		Size	Duration	Price
Carrot				
<i>Ditylenchus dipsaci</i>				
Filtration (COFRAC - Anses MOA013 parts A and B). UNTREATED seeds only.	PA-NE-CAR	70 g	16 days	76.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Onion				
<i>Ditylenchus dipsaci</i>				
Filtration (COFRAC - Anses MOA013 parts A and B). UNTREATED seeds only.	PA-NE-OIG	70 g	16 days	76.00
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
Leek				
<i>Ditylenchus dipsaci</i>				
Filtration (COFRAC - Anses MOA013 parts A and B). UNTREATED seeds only.	PA-NE-POI	70 g	16 days	76.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Pea				
<i>Ditylenchus dipsaci</i>				
Filtration (COFRAC - Anses MOA013 parts A and B). UNTREATED seeds only.	PA-NE-POIS	200 g	16 days	76.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Bulbs (COFRAC), bulblets, corms, rhizomes, tubers				
<i>Ditylenchus dipsaci</i>				
Filtration (Anses MOA013 parts A and B). UNTREATED seeds only.	PA-NE-BULB	50 units	16 days	132.00
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				
<i>Tomato black ring virus (TBRV)</i>				
ELISA.	PA-VI-37-1	3 000	16 days	160.00
<i>Tomato brown rugose fruit virus (ToBRFV)</i>⁴⁰				
RT-PCR (method ANSES/LSV/MA066, primers and probe of Menzel and Winter).	PA-VI-93-9 NEW	1 000	10 days	146.00
	PA-VI-93-8 NEW	3 000	10 days	196.00
	PA-VI-97-1 NEW	4 800	10 days	513.00
	PA-VI-9311 NEW	20 000	10 days	2376.00
<i>Tomato brown rugose fruit virus (ToBRFV)</i>⁴⁰ and <i>Tomato mottle mosaic virus (ToMMV)</i>				
RT-PCR (method ANSES/LSV/MA066, primers and probe of Menzel and Winter for ToBRFV).	PA-VI-99-3 NEW	1 000	10 days	157.00
	PA-VI-99-2 NEW	3 000	10 days	238.00
	PA-VI-99-5 NEW	20 000	10 days	2700.00
Eggplant, Capsicum, Pepper, Tomato				
<i>Tomato mottle mosaic virus (ToMMV)</i>				
RT-PCR.	PA-VI-98-1 NEW	1 000	10 days	146.00
	PA-VI-98 NEW	3 000	10 days	206.00
<i>Pepper mild mottle virus (PMMoV)</i>				
ELISA.	PA-VI-24	1 000	16 days	133.00
ELISA.	PA-VI-09	3 000	16 days	235.00
<i>Tomato black ring virus (TBRV)</i>				
ELISA.	PA-VI-37-1	3 000	16 days	160.00
<i>Alfalfa mosaic (AMV)</i>				
ELISA.	PA-VI-71	2 000	16 days	162.00
<i>Tobacco ringspot virus (TRSV)</i>⁴⁰				
ELISA.	PA-VI-39-1	3 000	16 days	160.00
<i>Tomato ringspot virus (ToRSV)</i>⁴⁰				
ELISA.	PA-VI-38-1	3 000	16 days	162.00
<i>Tobamovirus (ToBRFV)</i>⁴⁰, <i>TMV</i>, <i>ToMV</i>, <i>PMMoV</i>, <i>ToMMV</i>				
Indexing.	PA-VI-28	1 000	24 days	128.00
Indexing (ISTA 7-028).	PA-VI-20	3 000	24 days	176.00
<i>Tobamovirus (ToBRFV)</i>⁴⁰, <i>TMV</i>, <i>ToMV</i>, <i>PMMoV</i>				
Supplement fee. ToBRFV confirmation by PCR of indexing positive subsamples.	PA-VI-PCRI	/	/	405.00
Pospiviroids (PSTVd, TCDVd, MPVd, PCFVd, CEVd, CLVd, TPMVd, TASVd)				
RT-PCR.	PA-VI-55	3 000	10 days	227.00
	PA-VI-83 NEW	4 800	21 days	761.00
	PA-VI-72 NEW	20 000	10 days	3169.00
<i>Tomato mosaic virus (ToMV)</i> and/or <i>Tobacco mosaic virus (TMV)</i>				
ELISA.	PA-VI-18	1 000	16 days	131.00

Virology - Uncoated seeds only

		Size	Duration	Price
Eggplant, Capsicum, Pepper, Tomato				
Tomato mosaic virus (ToMV) and/or Tobacco mosaic virus (TMV)				
ELISA.	PA-VI-19	3 000	16 days	185.00
Tobacco mild green mosaic virus (TMGMV)				
ELISA.	PA-VI-94-1	1 000	16 days	136.00
	PA-VI-94	3 000	16 days	147.00
Tomato brown rugose fruit virus (ToBRFV)⁴⁰				
Supplement fee. In addition analysis with ISHI primers on request.	PA-VI-ISHI	/	10 days	137.00
Supplement fee. Confirmation by PCR of ELISA positive subsamples.	PA-VI-PCR	/	/	405.00
Arabis mosaic virus (ArMV)				
ELISA.	PA-VI-33-1	3 000	16 days	220.00
Tomato bushy stunt virus (TBSV)				
	PA-VI-47	3 000	16 days	232.00
Pelargonium zonate spot virus (PZSV)				
ELISA.	PA-VI-46	3 000	16 days	246.00
Pepper veinal mottle virus (PVMV)				
ELISA.	PA-VI-86	/	/	235.00
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	168.00
	PA-VI-16	3 000	16 days	195.00
	PA-VI-17	5 000	16 days	335.00
Carrot				
Alfalfa mosaic (AMV)				
ELISA.	PA-VI-71	2 000	16 days	162.00
Arabis mosaic virus (ArMV)				
ELISA.	PA-VI-33-1	3 000	16 days	220.00
Cucumber leaf spot carmovirus (CLSV)				
ELISA.	PA-VI-35-1	3 000	16 days	220.00
Tomato ringspot virus (ToRSV)⁴⁰				
ELISA.	PA-VI-38-1	3 000	16 days	162.00
Celery				
Strawberry latent ringspot virus (SLRSV)				
ELISA.	PA-VI-36	/	/	250.00
Cucumis sp.				
Cucumber leaf spot carmovirus (CLSV)				
ELISA.	PA-VI-35-1	3 000	16 days	220.00
Cucurbits - Detection of 1 pathogen				
Cucumber mosaic virus (CMV)				
ELISA.	PA-VI-56	2 000	16 days	243.00
Arabis mosaic virus (ArMV)				
ELISA.	PA-VI-33	2 000	16 days	247.00
Cucumber leaf spot carmovirus (CLSV)				
ELISA.	PA-VI-35	2 000	16 days	247.00
Tobacco ringspot virus (TRSV)⁴⁰				
ELISA.	PA-VI-39	2 000	16 days	258.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37	2 000	16 days	205.00
Tomato ringspot virus (ToRSV)⁴⁰				
ELISA.	PA-VI-38	2 000	16 days	247.00
Zucchini yellow mosaic virus (ZYMV)				
ELISA.	PA-VI-40	2 000	16 days	255.00
Squash leaf curl virus (SLCV)				
ELISA.	PA-VI-77	/	/	250.00
Cucumber green mottle mosaic virus (CGMMV)				
ELISA (ISTA 7-026).	PA-VI-01-1	2 000	16 days	185.00

Virology - Uncoated seeds only

		Size	Duration	Price
Cucurbits - Detection of 1 pathogen				
Cucumber green mottle mosaic virus (CGMMV)				
ELISA (ISTA 7-026).	PA-VI-51	10 000	16 days	631.00
Kyuri green mottle mosaic virus (KGMMV)				
ELISA.	PA-VI-63	2 000	16 days	250.00
	PA-VI-63-1 NEW	9 400	16 days	631.00
Melon necrotic spot virus (MNSV)				
ELISA (ISTA 7-026).	PA-VI-01-2	2 000	16 days	205.00
ELISA.	PA-VI-01-7	9 400	16 days	693.00
Squash mosaic virus (SqMV)				
ELISA (ISTA 7-026).	PA-VI-01	2 000	16 days	185.00
Cucurbits - Detection of 2 pathogens				
SqMV + CGMMV				
ELISA (ISTA 7-026).	PA-VI-01-3	2 000	16 days	299.00
SqMV + MNSV				
ELISA (ISTA 7-026).	PA-VI-01-4	2 000	16 days	299.00
MNSV + CGMMV				
ELISA (ISTA 7-026).	PA-VI-01-5	2 000	16 days	299.00
CGMMV + KGMMV				
ELISA.	PA-VI-64	2 000	16 days	313.00
ELISA.	PA-VI-87	9 400	16 days	1306.00
Cucurbits - Detection of 3 pathogens				
SqMV + CGMMV + MNSV				
ELISA (ISTA 7-026).	PA-VI-01-6	2 000	16 days	463.00
KGMMV+ CGMMV+ MNSV				
ELISA.	PA-VI-95	9 400	16 days	1329.00
Cucurbits - Detection of 4 pathogens				
SqMV + CGMMV + KGMMV + MNSV				
ELISA.	PA-VI-65	2 000	16 days	593.00
Spinach				
Beet mosaic virus (BtMV)				
ELISA.	PA-VI-73	/	/	250.00
Bean - Detection of 1 pathogen				
Bean common mosaic virus (BCMV)				
ELISA on plantlets.	PA-VI-02	1 000	37 days	303.00
Bean common mosaic necrotic virus (BCMNV)				
ELISA on plantlets.	PA-VI-03	1 000	37 days	309.00
Pea early browning virus (PEBV)				
ELISA.	PA-VI-53	1 000	16 days	237.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37	2 000	16 days	205.00
Bean - Detection of 2 pathogens				
BCMV + BCMNV				
ELISA on plantlets.	PA-VI-04	1 000	37 days	464.00
Lettuce				
Arabidopsis mosaic virus (ArMV)				
ELISA.	PA-VI-33-1	3 000	16 days	220.00
Cucumber leaf spot carmovirus (CLSV)				
ELISA.	PA-VI-35-1	3 000	16 days	220.00
Lettuce mosaic virus (LMV)				
ELISA.	PA-VI-05	10 000	16 days	183.00
	PA-VI-06	30 000	16 days	357.00
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37-1	3 000	16 days	160.00
Tobacco ringspot virus (TRSV)⁴⁰				
ELISA.	PA-VI-39-1	3 000	16 days	160.00

Virology - Uncoated seeds only

		Size	Duration	Price
Lettuce				
Tomato ringspot virus (ToRSV) ⁴⁰				
ELISA.	PA-VI-38-1	3 000	16 days	162.00
Strawberry latent ringspot virus (SLRSV)				
ELISA.	PA-VI-36	/	/	250.00
Capsicum, Pepper, Tomato				
Tomato brown rugose fruit virus (ToBRFV) ⁴⁰				
RT-PCR (COFRAC - method ANSES/LSV/MA066, primers and probe of Menzel and Winter). UNCOATED seeds only.	PA-VI-93-7	1 000	10 days	146.00
	PA-VI-93-6	3 000	10 days	196.00
RT-PCR (COFRAC - method ANSES/LSV/MA066, primers and probe of Menzel and Winter).	PA-VI-9310 NEW	20 000	10 days	2376.00
Tomato brown rugose fruit virus (ToBRFV) ⁴⁰ and Tomato mottle mosaic virus (ToMMV)				
RT-PCR (COFRAC - method ANSES/LSV/MA066, primers and probe of Menzel and Winter for ToBRFV).	PA-VI-99-1 NEW	1 000	10 days	157.00
	PA-VI-99 NEW	3 000	10 days	238.00
	PA-VI-99-4 NEW	20 000	10 days	2700.00
Pea				
Pea early browning virus (PEBV)				
ELISA (ISTA 7-024).	PA-VI-31	2 000	16 days	205.00
Pea enation mosaic virus (PEMV)				
ELISA.	PA-VI-57	2 000	16 days	249.00
Pea seed borne mosaic virus (PSbMV)				
ELISA (ISTA 7-024).	PA-VI-11	2 000	16 days	173.00
Bean yellow mosaic virus (BYMV)				
ELISA.	PA-VI-60	/	/	271.00
Bean leaf roll virus (BLRV)				
ELISA.	PA-VI-67	/	/	247.00
Southern bean mosaic virus (SBMV)				
ELISA.	PA-VI-88	/	/	247.00
Tomato				
Pepino mosaic virus (PepMV)				
ELISA (COFRAC - method Anses MOA 026) and confirmation of positives and indeterminates according by RT-PCR (Internal method).	PA-VI-15CO	1 000	16 days	165.00
	PA-VI-16CO	3 000	16 days	242.00
	PA-VI-17CO	5 000	16 days	398.00

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Eggplant				
Verticillium dahliae				
GEVES protocol.	PA-R-AUB-1	45	/	186.00
Cabbage				
Fusarium oxysporum f. sp. conglutinans race 1				
Official protocol.	PA-R-CHO	45	/	330.00
Plasmodiophora brassicae				
GEVES protocol.	PA-R-CHO-1	45	/	242.00
Cucumber				
CMV (Cucurbit mosaic virus)				
Official protocol.	PA-R-CON	45	/	150.00
CGMMV (Cucumber green mottle mosaic virus)				
GEVES protocol.	PA-R-CON-1	45	/	160.00
ZYMV (Zucchini yellow mosaic virus)				
Official protocol.	PA-R-CON-2	45	/	160.00

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

Varietal resistance

		Size	Duration	Price
Cucumber				
WMV (Watermelon mosaic virus)				
Official protocol.	PA-R-CON-3	45	/	160.00
Podosphaera xanthii race 1				
Official protocol.	PA-R-CON-4	45	/	313.00
Squash				
ZYMV (Zucchini yellow mosaic virus)				
Official protocol.	PA-R-COU-2	45	/	160.00
WMV (Watermelon mosaic virus)				
Official protocol.	PA-R-COU-3	45	/	159.00
Podosphaera xanthii race 1				
Official protocol.	PA-R-COU-4	45	/	304.00
Strawberry				
Phytophthora cactorum				
Official protocol.	PA-R-FRA-1			Contact SNES
Bean				
BCMNV (Bean common mosaic necrotic virus)				
Official protocol.	PA-R-HAR-1	30	/	127.00
Colletotrichum lindemuthianum race 6 or race Kappa (anthracnose)				
	PA-R-HAR-COL	30	/	141.00
Pseudomonas savastanoi pv. phaseolicola race 6 (halo blight)				
Official protocol.	PA-R-HAR-3	30	/	171.00
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 à 15EU / BI: 17EU / BI: 18EU / BI: 20EU / BI: 22 à 25EU / BI: 28EU / BI: 32EU / BI: 34EU / S1 / SF1 ou IL4				
Official protocol.	PA-R-LAI-BRE			Contact SNES
Bremia lactucae official races for CTPS BI: 16EU / BI: 21EU / BI: 26EU / BI: 27EU / BI: 29EU / BI: 30EU / BI: 31EU / BI: 33EU / BI: 35EU ou BI: 36EU				
Official protocol.	PA-R-LAI-BRE1	45	/	66.00
Bremia lactucae new races BI: 37EU / BI: 38EU / BI: 39 EU and BI: 40EU				
Official protocol.	PA-R-LAI-BRE2	45	/	66.00
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) or pathotype III (LMV-9)				
Official protocol.	PA-R-LAI-LMV			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	/	179.00
Fusarium oxysporum f.sp. lactucae race 4				
Official protocol.	PA-R-LAI41	45	/	195.00
Fusarium oxysporum f. sp. lactucae				
Identification of the race.	PA-R-IDFUS			Contact SNES
Nasonovia ribisnigri race 0				
Official protocol.	PA-R-LAI35	45	/	172.00
Corn salad				
Peronospora valerianellae race Pv: 1 or Pv: 2				
Official protocol.	PA-R-MAC-PV			Contact SNES
Melon				
Fusarium oxysporum f. sp. melonis races Fom: 0 / Fom: 1 / Fom: 2 or Fom: 1.2				
Official protocol.	PA-R-MEL-FUS	45	/	175.00

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

Varietal resistance

		Size	Duration	Price
Melon				
CMV (<i>Cucurbit mosaic virus</i>) Official protocol.	PA-R-MEL-5	45	/	296.00
MNSV: 0 (<i>Melon necrotic spot virus</i>) race 0 Official protocol.	PA-R-MEL-4	45	/	176.00
MWMV (<i>Moroccan Watermelon mosaic virus</i>) Official protocol.	PA-R-MEL-8	45	/	176.00
ZYMV (<i>Zucchini yellow mosaic virus</i>) Official protocol.	PA-R-MEL10	45	/	176.00
<i>Golovinomyces cichoracearum</i> Official protocol.	PA-R-MEL-7			Contact SNES
<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	45	/	294.00
<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>) races PVY: 0 or PVY: 1.2 Official protocol.	PA-R-PIM-PVY	45	/	171.00
PVY : 1 (<i>Potato virus Y</i>) race 1 Official protocol.	PA-R-PIM-2	45	/	171.00
TMV: 0 (<i>Tobacco mosaic virus</i>) race 0 Official protocol.	PA-R-PIM-4	45	/	169.00
PMMoV (<i>Pepper mild mottle virus</i>) races PMMoV: 1.2 or PMMoV: 1.2.3 Official protocol.	PA-R-PIM-PMM	45	/	169.00
TSWV: 0 (<i>Tomato spotted wilt virus</i>) race 0 Official protocol.	PA-R-PIM-7	45	/	169.00
<i>Meloidogyne incognita</i> Official protocol.	PA-R-PIM-8			Contact SNES
Pea				
<i>Ascochyta pisi</i> race C Official protocol.	PA-R-POI-1	30	/	102.00
<i>Fusarium oxysporum</i> f. sp. <i>pisi</i> race 1 Official protocol.	PA-R-POI-2	30	/	114.00
BYMV (<i>Bean yellow mosaic virus</i>) Official protocol.	PA-R-POI-3	30	/	106.00
PEMV (<i>Pea enation mosaic virus</i>) Official protocol.	PA-R-POI-4	30	/	121.00
<i>Erysiphe pisi</i> Official protocol.	PA-R-POI-5	30	/	170.00
Tomato				
<i>Verticillium dahliae</i> Official protocol.	PA-R-TOM-1	60	/	167.00
<i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> races Fol: 0 / Fol: 1 or Fol: 2 Official protocol.	PA-R-TOM-FUS	60	/	167.00
<i>Passalora fulva</i> races Pf: 0 or Pf: E Official protocol.	PA-R-TOM-PF	45	/	167.00
<i>Passalora fulva</i> new races Pf: F, G, H, I or J Official protocol.	PA-R-TOM-PF2			Contact SNES
<i>Fusarium oxysporum radices</i> f. sp. <i>lycopersici</i> Official protocol.	PA-R-TOM-7	60	/	167.00
<i>Stemphylium</i> spp. Official protocol.	PA-R-TOM-8	45	/	167.00

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

Varietal resistance

		Size	Duration	Price
Tomato				
ToMV: 0, 1, 2 (Tomato mosaic virus) races ToMV: 0 / ToMV: 1 ou ToMV: 2				
Official protocol.	PA-R-TOM-TMV	45	/	165.00
TMV: 0 (Tobacco mosaic virus)				
Detection of markers linked to resistance genes. Gene Tm1. Resistance to the Tomatovirus.	BI-D-GENR			Contact BioGEVES
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	60	/	165.00
Meloidogyne incognita				
Official protocol.	PA-R-TOM14	45	/	115.00
Pseudomonas syringae pv. tomato				
Official protocol.	PA-R-TOM15	45	/	91.00
Pseudopyrenochaeta lycopersici				
Official protocol.	PA-R-TOM16	60	/	398.00
Passalora fulva				
Identification of the race.	PA-ID-PF			Contact SNES
Tomato rootstock				
Verticillium dahliae				
Official protocol.	PA-R-TPG-1	90	/	177.00
Fusarium oxysporum f. sp. lycopersici races Fol: 0 / Fol: 1 or Fol: 2				
Official protocol.	PA-R-TPG-FUS	90	/	185.00
Passalora fulva races Pf: 0 or Pf: E				
Official protocol.	PA-R-TPG-PF	90	/	177.00
Fusarium oxysporum radidis f. sp. lycopersici				
Official protocol.	PA-R-TPG-7	90	/	177.00
Stemphylium spp.				
Official protocol.	PA-R-TPG-8	90	/	177.00
ToMV: 0, 1, 2 (Tomato mosaic virus) races ToMV: 0 / ToMV: 1 ou ToMV: 2				
Official protocol.	PA-R-TPG-TMV	90	/	170.00
TSWV: 0 (Tomato spotted wilt virus) race 0				
Official protocol.	PA-R-TPG10	90	/	170.00
Meloidogyne incognita				
Official protocol.	PA-R-TPG14	90	/	117.00
Pseudomonas syringae pv. tomato				
Official protocol.	PA-R-TPG15	90	/	95.00
Pseudopyrenochaeta lycopersici				
Official protocol.	PA-R-TPG16	90	/	393.00

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
Varietal purity analysis - SSR - 90 seeds.	BI-G-BM-SSR-PUR-90			Contact BioGEVES

Technological quality: biochemicals tests

		Size	Duration	Price
Cabbage, Radish, Other Brassicaceae				
Glucosinolate content (HPLC).	BI-B-HPLC-GLU			Contact BioGEVES
Fatty acid composition (CPG method).	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

Technological quality: biochemicals tests

	Size	Duration	Price
Pea			
Antitrypsic factors (assay by spectrophotometry).	BI-B-SPEC-FAT	Contact BioGEVES	

Field tests by SEV

		Price
DUS testing - Cucumber, Lettuce, Melon, Pepper, Tomato Cycle 1.	SEV-DHS-POTMAJ1	1990.00
DUS testing - Cucumber, Lettuce, Melon, Pepper, Tomato Cycle 2.	SEV-DHS-POTMAJ2	1880.00
DUS testing - Other vegetables species Cycle 1.	SEV-DHS-POTMIN1	1325.00
DUS testing - Other vegetables species Cycle 2.	SEV-DHS-POTMIN2	1240.00

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

<i>Pisum sativum</i> , <i>Vicia faba</i> .	AP-C-8
<i>Cicer arietinum</i> .	AP-C-12
<i>Allium</i> sp. (<i>Allium cepa</i> , <i>Allium porrum</i> , <i>Allium schoenoprasum</i>).	AP-C-13
Solanaceae. (<i>Solanum lycopersicum</i> , <i>Solanum melongena</i> , <i>Capsicum annuum</i>).	AP-C-14
<i>Daucus carota</i> , <i>Petroselinum</i> sp.	AP-C-15
Cucurbitaceae. (<i>Curcubita</i> spp., <i>Cucumis</i> spp., <i>Citrullus lanatus</i>).	AP-C-16

Identification data sheet of seeds and other impurities

Asteraceae (<i>Anthemis arvensis</i> , <i>Glebionis segetum</i> , <i>Chicorium</i> sp., <i>Tripleurospermum inodorum</i> , <i>Helminthotheca echioïdes</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
---	---------

Collection of seeds

Weed's identification for <i>Pisum sativum</i> and <i>Vicia faba</i> analysis.	APCS-PIS-S
Weed's identification for Vegetables analysis.	APCS-VEG

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	33.00
Purity analysis test				
Purity - Fruit crops, Ornamentals.	PU-IS-18	ISTA weight	/	33.20
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	9.00
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	9.00
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	/	138.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	13.40
Limited counting of all other seeds				
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	/	64.00
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	/	102.00
Searching of more than 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-20		Contact SNES	
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	20.70
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	34.60

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Trees, Shrubs, Flowers.	GE-FG-20-4	1 250	/	76.00
Germination test on 200 seeds				
Trees, Shrubs, Flowers.	GE-FG-20-2	500	/	60.00
Germination tests on bulbs and bulblets				
On 400 seeds.	GE-BULB-4	1 250	/	151.00
On 200 seeds.	GE-BULB-2	500	/	122.00
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	/	219.00
Hornbeam, Maple, Ash, Stone fruits, Beech, Lavender, Rosemary.	GE-TZ-2-4	500	/	185.00
Amelanchier, Conifers, <i>Ligustrum</i> , Mahonia, Apple, Pear, Sorbier, .	GE-TZ-1-4	500	/	174.00
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	/	150.00
Hornbeam, Maple, Ash, Stone fruits, Beech, Lavender, Rosemary.	GE-TZ-2-2	300	/	127.00
Amelanchier, Conifers, <i>Ligustrum</i> , Mahonia, Apple, Pear, Sorbier, .	GE-TZ-1-2	300	/	116.00
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	/	116.00
Hornbeam, Maple, Ash, Stone fruits, Beech, Lavender, Rosemary.	GE-TZ-2-1	200	/	93.00
Amelanchier, Conifers, <i>Ligustrum</i> , Mahonia, Apple, Pear, Sorbier, .	GE-TZ-1-1	200	/	81.00
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	9.40

Ornamental and Fruit crops

Nematology

Bulbs (COFRAC), bulblets, corms, rhizomes, tubers

Ditylenchus dipsaci

Filtration (Anses MOA013 parts A and B). **UNTREATED seeds only.**

Test carried out on the whole submitted sample. **If the supplied quantity is too important, a new sample will be requested.**

PA-NE-BULB

Size Duration Price

50 units 16 days 132.00

Virology - Uncoated seeds only

Cyclamen

Tomato spotted wilt virus (TSWV)

ELISA.

PA-VI-49

Size Duration Price

/ / 262.00

EVALUATION OF VARIETIES

Genotyping by molecular biology

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.

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 376.00
Cost for 1 sampled variety.	SEV-ECHF-VAR 41.00
Packaging by INRAE examiner for 1 site and for 1 to 5 varieties.	SEV-ECHF-COND5 150.00
Packaging by INRAE examiner for 1 site and for 6 to 10 varieties.	SEV-ECHF-COND10 300.00
Packaging by INRAE examiner for 1 site and for 11 to 50 varieties.	SEV-ECHF-COND50 623.00
Cost of sending for 1 site (possible to pick the samples directly on the site).	SEV-ECHF-ENV 125.00

Field tests by SEV

	Price
DUS testing - Fruit trees and rootstock - New variety, installation year.	SEV-DHS-FRU1 1100.00
DUS testing - Fruit trees and rootstock - New variety, following years.	SEV-DHS-FRU2 2200.00
DUS testing - Ornamentals species.	SEV-DHS-ORN 2800.00
DUS testing - Vine - New variety, installation year.	SEV-DHS-VIG1 1100.00
DUS testing - Vine - New variety, following years.	SEV-DHS-VIG2 2200.00

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 (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	33.00
Purity analysis test				
Purity - Aromatic, Medicinal.	PU-IS-18	ISTA weight	/	33.20
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	9.00
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	9.00
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	/	138.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	13.40
Limited counting of all other seeds				
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	/	64.00
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	/	102.00
Searching of more than 8 species (except for <i>Orobanchaceae</i>). Indicate the name of the species to be searched.	SP-LI-20		Contact SNES	
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	20.70
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	34.60

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Aromatics, Medicinals.	GE-FG-18-4	1 250	/	65.00
Germination test on 200 seeds				
Aromatics, Medicinals.	GE-FG-18-2	500	/	52.00

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	314.00
<i>Pseudomonas syringae</i> pv. <i>apii</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-106	30 000	36 days	278.00
<i>Pseudomonas syringae</i> pv. <i>coriandricola</i>				
Agar method + PCR in case of suspect colonies.	PA-BA-107	30 000	26 days	289.00
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	359.00
<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	368.00
<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	368.00
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	422.00

Bacteriology - Uncoated seeds only

Dill, Coriander, Parsley

Candidatus liberibacter solanacearum

Detection by PCR.

PA-BA-CAND 20 000 10 days 136.00

Mycology - See p.8 "Seed health"

Dill

Stemphylium botryosum, *Alternaria radicina/carotiincultae* (*Stemphylium radicinum*), *Fusarium*

(Discolour section and other sections), *Botrytis* sp.

Agar method.

PA-ES-ANF 400 19 days 106.00

Basil

Fusarium oxysporum, *Fusarium* (Discolour section and other sections), *Botrytis* sp.

Agar method.

PA-ES-BAS 400 19 days 106.00

Peronospora spp.

Grow-out test.

PA-MIBASGO 400 42 days 129.00

PA-MIBASG3 3 000 42 days 261.00

Lavender

Phomopsis lavandulae, *Botrytis* sp., *Fusarium* (all sections), *Phoma* sp.

Agar method.

PA-ES-LAV 400 19 days 106.00

Parsley

Septoria petroselini

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 101.00

Plasmopara nivea

Seed wash method. UNTREATED seed only.

PA-MI-PER 500 15 days 102.00

Alternaria petroselini (*Stemphylium radicinum* var. *petroselini*), *Alternaria dauci*,

Fusarium (all sections), *Botrytis* sp.

Agar method.

PA-ES-PER 400 19 days 106.00

EVALUATION OF VARIETIES

Genotyping by molecular biology

Poppy

Varietal identity control - SSR.

BI-G-BM-SSR-CID Contact BioGEVES

Technological quality: biochemicals tests

Stevia

Steviosid and rebaudiosid A content by high performance liquid chromatography (HPLC).

BI-B-HPLC-STEV Contact BioGEVES

Field tests by SEV

DUS testing - Aromatic, Medicinal plants.

SEV-DHS-AROMED 2800.00

Micro-cleaning

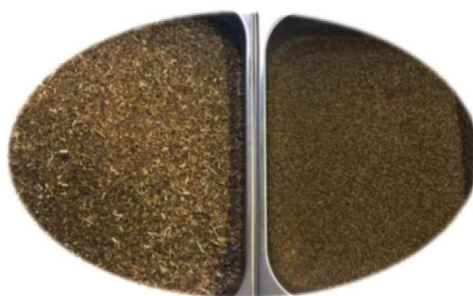
Micro-cleaning of seed lots consists in determining the percentage of waste in raw seed lots, from a harvest, using sorting machines, laboratory replicates of industrial machines.

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 IT IS 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. In order 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 equipments in order to clean every types 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.

		Price
Micro-cleaning. Standard protocol. Beets.	MN-SN-01	59.00 €
Micro-cleaning. Standard protocol. Peas, Beans, Cucurbits.	MN-SN-02	54.00 €
Micro-cleaning. Standard protocol. Carrots.	MN-SN-03	84.00 €
Micro-cleaning. Standard protocol. Other vegetable crops.	MN-SN-04	76.00 €
Micro-cleaning. Standard protocol. Other field crop species.	MN-SN-05	67.00 €
Micro-cleaning. Standard protocol. Flower seeds.	MN-SN-06	Contact SNES
Micro-cleaning. Mixed seeds.	MN-SN-07	Contact SNES
Micro-cleaning. Quinoa.	MN-SN-08	100.00 €
Micro-cleaning. Standard protocol. Chicory	MN-SN-09	76.00 €
Micro-cleaning. Standard protocol. Small leguminous.	MN-SN-10	68.00 €
Additional charge for lots not presorted or requiring additional sorting time.	MN-SN-11	53.00€/h
Supplement fee. Details of each grid with percentage results.	MN-SUP	12.60€

Requests for information: contact.mn@geves.fr

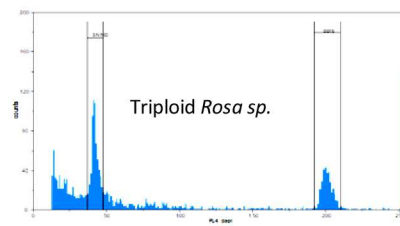
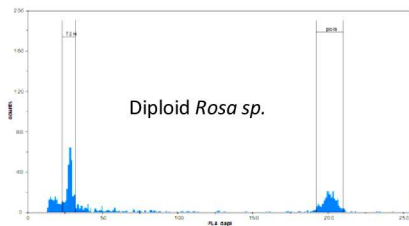
Evaluation of ploidy level from plants or seeds.

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

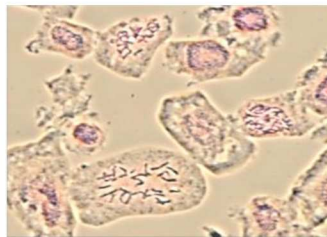
Flow cytometry is a technic based on the marking of DNA with fluorochromes. The cytometer allows a precise measurement of the amount of fluorescence emitted by the cells after marking and excitation by a light beam. The measurement of the quantity of fluorescence emitted will then be compared to a control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

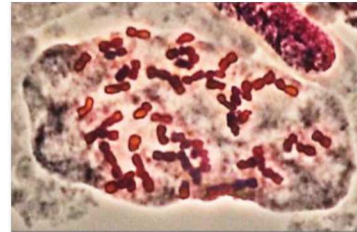


MICROSCOPY

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

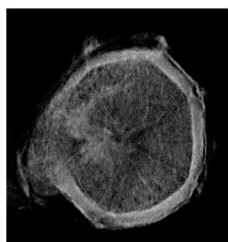
Tools for evaluating seed quality.

WHY USE 2D OU 3D RADIOGRAPHY?

Radiography 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 non-destructive 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

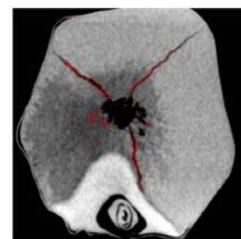
3D radiography (tomography) is a technology whose method consists of generating a 3D image of the internal structure of an object. This tool applied to seeds allows the measurement of different characteristics and to obtain very precise quantitative data. The possible applications are diverse: characterisation 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	25.90 €
2D image interpretation for internal morphological characterisation, the detection of insect/physical damage (%).	RX-SUP-03	16.20 €
Supply of one 2D image in .jpg format, for a particular determination or for measurements.	RX-SUP-RA	1.10 €
For any request for information or analysis in 3D tomography:	RX-IS-05	bea-tomographe@geves.fr
- 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	bea-tomographe@geves.fr
Supply of a batch of 2D images in jpg format.	RX-SUP-TO	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	46.00

SELECTIVITY TESTS

To check the selectivity of a treatment, the germination test should be determined on 400 seeds.

		Price
Vegetables.	GE-FG-18-4	65.00
Cereals.	GE-FG-01-4	51.00
Oilseeds.	GE-FG-17-4	54.00

The percentage of seedlings showing phytotoxicity symptoms can be provided specifically.

All species.	GE-FG-PCPL	23.10
---------------------	------------	-------

EVALUATION OF TREATMENTS FOR SEED AND PLANT PROTECTION

		Contact
Evaluation of phytochemical products.	PA-EVAL-CHI	geoffrey.orgeur@geves.fr
Evaluation of biocontrol products, physical treatments and disinfection process.	PA-EVAL-BIO	

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>
	Rapeseed		Sunflower
Beet		<i>Plasmiodiophora brassicae</i> . <i>Phoma lingam</i> . <i>Fusarium oxysporum conglutinans</i> . <i>Alternaria brassicicola</i> .	Cabbage
		<i>Aphanomyces cochlioides</i> . <i>Pythium sp.</i>	Lettuce
		Tomato	<i>Meloidogyne incognita</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). Counting dates for energy vary according to the species.	GE-EG	19.900
Germination kinetics by image analysis (average rate of germination, kinetic curve).	GE-CI	sylvie.ducournau@geves.fr
Seedling development tests		
Corn root length evaluation after 7 days germination at 15°C (4 replicates of 20 seeds).	GE-RAC	77.00
Dry biomass of 4 replicates of 20 seedlings after germination test.	GE-BIOM	55.00
Total length and root classification per diameter (4 replicates of 20 seedlings).	GE-CLASS NEW	75.00
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 (contact SNES)		Price
Specific preparation		
Suspension of <i>Ditylenchus dipsaci</i> larvae (exemple of price: 1 335€ to inoculate 9000 plants).	PA-AD-DIT	/
Beet seedlings contaminated with viruliferous aphids <i>Myzus persicae</i> carrying yellowing virus BChV (<i>Beet chlorosis virus</i>).	PA-AD-MYZ	/
Other isolates and inoculum		
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	130.00
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 : isolates and seeds		Price
Bioagressors isolates		
Specific preparation of reference isolate in Petri dishes (2 dishes/strain), desiccated (Bos) (1 g) or population of free living nematodes or cysts (around 20).	PA-AD-FOU	168.00
Specific preparation of 5 g of galls of <i>Meloidogyne incognita</i> (for inoculation of 15 to 20 plantlets).	PA-AD-MEL	180.00
Specific preparation of 5 g of galls of <i>Plasmodiophora brassicae</i> (for inoculation of 50 to 100 plantlets).	PA-AD-PLAD	180.00
Specific preparation		
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	62.00
Specific preparation		
50 to 100 seeds of germinated Sunflower seeds contaminated by <i>Plasmopara halstedii</i> (downy mildew).	PA-AD-TOU2	180.00
Lettuce seedlings infected with 1 race of <i>Bremia lactucae</i> , 30 cotyledons in the test period.	PA-AD-BREM	180.00
<i>Erysiphe pisi</i> , 2 seedlings with presence of sporulation.	PA-AD-ERYS	180.00
2 cotyledons of Melon infected by 1 race of <i>Golovinomyces cichoracearum</i> (powdery mildew).	PA-AD-GOL	180.00
2 cotyledons of Melon infected by 1 race of <i>Podosphaera xanthii</i> (powdery mildew).	PA-AD-POD	180.00
2 Lettuce seedlings infected with <i>Nasonovia ribisnigri</i> race Nr: 0 with presence of apterae.	PA-AD-NAS	180.00
30 leaves of Basil contaminated by <i>Peronospora belbahri</i> .	PA-AD-BEL	180.00
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	366.00
Carrot.	PA-HD-CAR	50.00
Squash.	PA-HD-COU	88.00
Watermelon.	PA-HD-PAS	88.00
Bean.	PA-HD-HAR	69.00
Lettuce.	PA-HD-LAI	69.00
Corn salad.	PA-HD-MAC	50.00
Melon.	PA-HD-MEL	88.00
Capsicum.	PA-HD-PIM	101.00
Pea.	PA-HD-POI	69.00
Tomato.	PA-HD-TOM	88.00
Tomato Rootstock.	PA-HD-PGTO	101.00

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

	Price	Contact
Purity – All species (based on 15 participants) – by sample.	186.00	
Germination – All species (based on 15 participants) – by sample.	128.00	
Moisture content – All species (based on 15 participants) – by sample.	81.00	
Thousand-seed weight – All species (based on 15 participants) – by sample.	75.00	Fabienne BRUN
Seed health.	Contact SNES	eil.semences@geves.fr
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	

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

To apply for training

	Price	Contact
Technical training with SNES.	Contact SNES	Fabienne BRUN
Seed quality analysis, inter or in-company, at SNES or on-site.		formation.semences@geves.fr
Technical training with BioGEVES.	Contact SNES	biogeves.analyses@geves.fr
Technical training with SEV.	Contact SNES	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 abnormal and debriefing of the results reading, per sample.	GE-LECT	102.00	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 Beaucoz  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 fully 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 contacts appear in the GEVES price list. GEVES acknowledges to the customer the receipt of the complaint, deals with it and defines an appropriate treatment as soon as possible. GEVES shall inform the plaintiff of the progress of the claim and the conclusions.

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.

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 Beaucoz  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. 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.

OUR PUBLICATIONS • AND REFERENCE MATERIAL

Reference Collections



Technical Data



Seed Control Kit



More information at www.geves.fr

Contact : Inr.semences@geves.fr



GEVES
Expertise & Performance

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