



GEVES PRICE LIST 2023

Field & Forage

Variety and Seed Study and Control Group



GEVES
Expertise & Performance























www.geves.fr



GEVES

Expertise & Performance

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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.

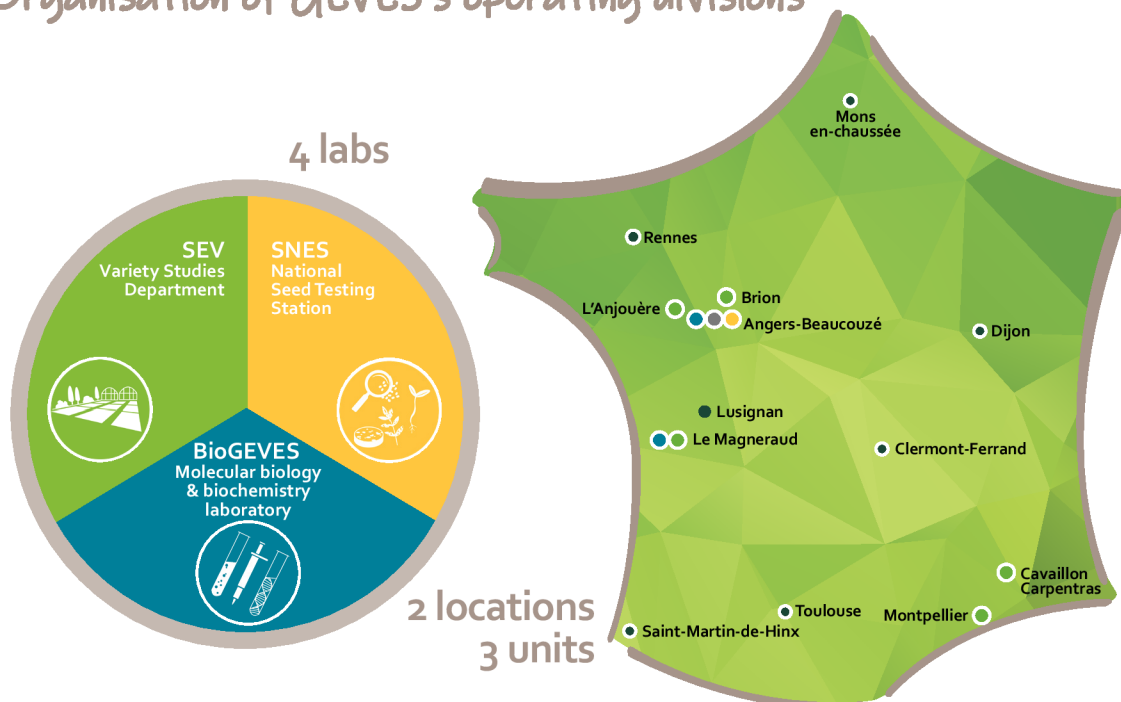
Governance of GEVES

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

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 (BIO request or analysis order form) and attach 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 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



ILC :
eil.semences@geves.fr

TRAINING COURSES :
formation.semences@
geves.fr

AUDITS :
audit.semences@
geves.fr

SNES / LNR :

BioGEVES :

SEV :

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



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



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

02 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 02 41 22 58 30
Philippe Pannetier 02 41 22 58 43
Céline Herbert 02 41 22 58 30
Diogo Tobolski 02 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 02 41 22 58 78
Pierre Soufflet 02 41 22 58 82
Philippe Garreau 02 41 22 58 77



Head of Pathology Laboratory
Valérie Grimault: +33 (0)2 41 22 58 50

- Seed health
- Variety resistance
- Seed treatment evaluation

Isabelle Serandat 02 41 22 58 54
Laurent Guyot 02 41 22 58 59
Sophie Perrot 02 41 22 58 58
Geoffrey Orgeur 02 41 22 58 56

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
Thomas Baldwin
+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

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)

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. If the quantity supplied is less than the quantity requested, the analysis will be carried out on all the seed supplied.

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 weight prescribed in the ISTA Rules, Table 2C Column 3. If you are requesting several analyses of counting of all other seeds on the same sample, please provide the necessary quantities for these several tests.

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	12 kg	10 kg



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.

Supply of samples to the SNES

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'Donnel ; 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. roseum</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> (<i>Haematonectria haematococca</i>)

Order an analysis

To SNES

For SNES or COFRAC certificate ¹

	Price
By paper order form	
Handling of the request per submitted sample and issuing of a definitive SNES or COFRAC certificate, in French or English.	9.20
By internet on DSN website	
Handling of the request per submitted sample and issuing of a definitive SNES or COFRAC certificate, in French or English.	6.50
Specific handling	
Handling of the request per submitted sample sent in several packaging or weighing more than 2 kg requiring the preparation of a working sample, and issuing of a definitive SNES or COFRAC certificate, in French or English.	38.20
Supplementary certificates, specific presentation of results, priority	
Provisional certificate, in French or English.	4.00
Duplicate certificate, in French or English.	2.90
Summary table of results, or specific presentation of results.	30.00
Raw results on .csv file (request must be entered online on DSN website).	0.00
Priority processing, per sample.	18.00

¹ A SNES certificate is issued by default, except for COFRAC accredited tests (indicated by a *) 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 International Orange or Blue Certificate, in French or English, with priority being given to the related analyses. (EC-01 + SCLI-URBI + BU-ABIODE/BU-ABIBDE)	36.40
Supplementary certificates and request for changes	
Provisional international certificate, in French or English.	9.20
Duplicate international certificate, in French or English.	9.20
Adding additional certificates or modification of information on an international certificate (after checking the conformity with ISTA rules).	32.50

To BioGEVES

Handling and results

	Price
Handling	
Handling of the sample for treated seeds.	54.00
Results	
Duplicates analysis certificate except photography.	2.70
New edition of result certificate.	26.80
Specific presentation of results - Contact BioGeves.	/

SEED QUALITY

Physiological quality

		Size	Duration	Price
Germination test				
Supplement for an analysis in soil or sand if the primary support of the species is "top of" or "pleated" paper - on 400 seeds.	GE-FG-SUP4	/	/	14.40
Supplement for an analysis in soil or sand if the primary support of the species is "top of" or "pleated" paper - on 200 seeds.	GE-FG-SUP2	/	/	7.50
Complementary determinations in addition to the germination test				
Detailed description of seedlings and seeds on 400 seeds.	GE-FG-DET	1 250	/	38.50
Detailed description of seedlings and seeds on 200 seeds.	GE-FG-DET2	500	/	19.30
Percentage of a particular type of seedling.	GE-FG-PCPL	/	/	21.40
Provision of the result of repetitions.	GE-FG-REP	/	/	12.40
Additional testing time required				
Additional duration of 7 days for a germination test on 400 seeds.	GE-FG-7S4	1 250	/	15.00
Additional duration of 14 days for a germination test on 400 seeds.	GE-FG-14S4	500	/	30.20
Additional duration of 7 days for a germination test on 200 seeds.	GE-FG-7S2	500	/	7.60
Additional duration of 14 days for a germination test on 200 seeds.	GE-FG-14S2	500	/	15.10
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	8.70
Tetrazolium viability test - For results within a week, reception of seeds on Tuesday at the latest.				
Tetrazolium test on 400 seeds (excluding ornamental and fruit species).	GE-TZ-1	500	/	161.00
Tetrazolium test on 200 seeds (excluding ornamental and fruit species).	GE-TZ-2	300	/	107.00
Tetrazolium test on 100 seeds (excluding ornamental and fruit species).	GE-TZ-3	200	/	75.00
Energy				
Germination energy (intermediate counting; germination capacity supplement). The date of counting for the energy varies according to the species.	GE-EG	500	/	18.40
Vigour tests				
Cold-test on 400 seeds.	GE-CO	1 250	/	64.00
Cold-test on 200 seeds.	GE-CO2	500	/	41.00
Accelerated ageing of 200 seeds including germination capacity.	GE-VIEI-2	500	/	83.00
Controlled deterioration of 200 seeds including germination capacity.	GE-DET-1	500	/	83.00
Conductivity test on 200 seeds on ISTA species.	GE-CON-GLO	500	/	53.00
<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>				
Additional cost for a conductivity test on a treated seed sample.	GE-CON-SUP NEW	/	/	5.00
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	/	/	21.40
Substrate checks				
Determination of the water holding capacity of a substrate including moisture content.	GE-SUB-1	See p.7	/	85.00
Determination of the pH of a substrate.	GE-SUB-2	See p.7	/	55.00
Determination of the conductivity of a substrate.	GE-SUB-3	See p.7	/	55.00
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	/	124.00
Viability determination of seeds in a soil or a substrate.	GE-SUB-5		Contact SNES	
Validation of a new substrate for germination.	GE-SUB-6		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				
Thousand-seed weight, if not indicated on the request for bacteriology, mycology and virology tests.	PA-MMS	/	/	31.50

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Supplement fee for counting of colonies				
1 pathogen in 30 000 seeds.	PA-BA-20	30 000	/	56.00
More than 1 pathogen in 5 000 seeds.	PA-BA-81	5 000	/	35.30
More than 1 pathogen in 30 000 seeds.	PA-BA-82	30 000	/	105.00

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	245.00
Verticillium dahliae				
Agar method.	PA-ES-VERT	400	19 days	97.00
Supplement for spore counting, washing methods				
Counting by classes (0;1-10;11-100;>100).	PA-MY-DCLA	/	/	59.00
Counting by unit.	PA-MY-DEN	/	/	96.00

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.	PA-AD-IP	2 boxes / isolates	19 days	46.00
Isolation of strains from symptoms.	PA-ISOLEM	/	/	46.00
Isolation of strains from seeds.	PA-ISOSEM	/	/	98.00
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	/	/	52.00
Identification based on symptoms.	PA-DI-MICR	/	/	90.00
Mycological identification after incubation.	PA-DI-MY	/	/	185.00
Bacteriological identification after incubation.	PA-DI-BA	/	/	92.00
Confirmation by pathogenicity test.	PA-DI-PP	/	/	112.00
Virological identification by immunological test.	PA-DI-ELIS	/	/	199.00
Virological identification virologic by biotest.	PA-DI-IND	/	/	63.00
Analytical Profile Index (API).	PA-DI-API	/	/	175.00
PCR.	PA-DI-PCR	/	/	111.00

EVALUATION OF VARIETIES

Determination of the identity and the varietal purity

		Size	Duration	Price
Standard protocol.	SEV-CV	/	/	325.00
Specific study.	SEV-CV1			Contact SEV

Genotyping by molecular biology

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

Genotyping by molecular biology

		Size	Duration	Price
Varietal purity analysis.	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

Other tests

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

PUBLICATIONS

		Price
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	31.20
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	31.20
<i>Avena fatua</i> - <i>Avena sativa</i> .	AP-A-02	31.20
Germination analysis method sheet		
Germination method of different species.	GE-M-ESP	7.60
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	31.20
<i>Chenopodium</i> sp., <i>Atriplex</i> sp., <i>Amaranthus</i> sp., <i>Reseda</i> sp., <i>Myosotis</i> sp.	AP-A-04	31.20
Asteraceae (<i>Anthemis arvensis</i> , <i>Glebionis segetum</i> , <i>Chicorium</i> sp., <i>Tripleurospermum inodorum</i> , <i>Helminthotheca echinoides</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	31.20
<i>Cuscuta</i> spp.	AP-P-1	31.20
<i>Claviceps purpurea</i> - <i>Sclerotinia sclerotiorum</i> .	AP-P-2	31.20

		Price
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	0.00
Identification data sheet of fungal pathogens		
One data sheet per pathogen.Contact SNES for a list of available pathogens.	PA-T-PATH	32.10
Identification data sheet of nematodes		
One data sheet per nematodes. Contact SNES for a list of available nematodes	PA-T-NEM	32.10
Identification data sheet of fungal saprophytes		
Sheet containing the main fungal saprophytes present in analysis on media.	PA-T-SAPR	54.00

SEED QUALITY

Physical quality

		Size	Duration	Price
Calibration - Provide seeds in sealed foil sachets				
ISTA method (Denker device): inferior or equal to 6 grills.	MN-DK-CAL1	/	/	39.60
ISTA method (Denker device): superior or equal to 6 grills.	MN-DK-CAL2	/	/	51.00
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Purity analysis test				
Purity - Beets, Chicory.	PU-IS-18	ISTA weight	/	31.70
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Counting of all other seeds				
Full counting - Beets, Chicory.	SP-IS-17	ISTA weight	/	131.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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	/	71.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	71.00
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	/	105.00
Tests on coated seeds				
Purity of coated seeds.	PU-IS-21	2 500	/	32.70
Pelleting material removal and full counting on 2 500 coated seeds. Only on UNTREATED seeds.	SP-ENR2500	2 500	/	97.00
Pelleting material removal and full counting on 7 500 coated seeds. Only on UNTREATED seeds.	SP-ENR-TOT	7 500	/	294.00
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	/	230.00
Moisture content - Provide seeds in sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Beets (after washing and treatment).	GE-FG-03-4	1 250	/	67.00
Beets (pelleted seeds).	GE-FG-034E	1 250	/	51.00
Chicorys.	GE-FG-18-4	1 250	/	60.00
Germination test on 200 seeds				
Beets (after washing and treatment).	GE-FG-03-2	500	/	52.00
Beets (pelleted seeds).	GE-FG-032E	500	/	35.70
Chicorys.	GE-FG-18-2	500	/	48.30
Germination test on 100 seeds				
Beets (after washing and treatment).	GE-FG-03-1	500	/	33.30
Beets (pelleted seeds).	GE-FG-031E	500	/	25.60
Chicorys.	GE-FG-18-1	500	/	29.00

Beets - Chicorys - Potatoe

Physiological quality

		Size	Duration	Price
Cold test germination on 400 seeds				
Beets (after washing and treatment).	GE-EGFG-B4	1 250	/	96.00
Chicorys.	GE-EGFG-4	1 250	/	85.00
Cold test germination on 200 seeds				
Beets (after washing and treatment).	GE-EGFG-B2	500	/	58.00
Chicorys.	GE-EGFG-2	500	/	50.00
Verification of species				
Verification of species after germination test.	GE-ENR	/	/	8.70
Additional determinations in addition to the germination test on 400 seeds				
Percentage of monogerm seed - Monogerm seeds.	GE-FG-MONO	/	/	12.60
Percentage of monogerm seed - Multigerms seeds.	GE-FG-MONO1	/	/	27.60
Germination based on full seeds.	GE-FG-AMAN	/	/	9.30
Additional determinations in addition to the germination test on 200 seeds				
Percentage of monogerm seed - Monogerm seeds.	GE-FG-MON2	/	/	7.60
Percentage of monogerm seed - Multigerms seeds.	GE-FG-MON21	/	/	16.40

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Swiss chard				
<i>Pseudomonas syringae</i> pv. <i>aptata</i>				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-119	30 000	30 days	241.00
Chard				
<i>Xanthomonas campestris</i> pv. <i>campestris</i>				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/05).	PA-BA-117	30 000	37 days	214.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Beet				
<i>Pleospora bjoerlingii</i> (<i>Phoma betae</i>), <i>Colletotrichum dematium</i>, <i>Fusarium oxysporum</i>, <i>Fusarium equiseti</i>, <i>Fusarium</i> (other sections), <i>Verticillium</i> sp.				
Agar method.	PA-ES-BET	400	19 days	97.00
<i>Peronospora farinosa</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-BET	500	15 days	94.00
<i>Cercospora beticola</i> (leaf spot)				
Seed wash method. UNTREATED seeds only.	PA-CE-BET	500	15 days	94.00
<i>Uromyces beticola</i> (rust)				
Seed wash method. UNTREATED seeds only.	PA-RO-BET	500	15 days	94.00
<i>Ramularia beticola</i> (leaf spot)				
Seed wash method. UNTREATED seeds only.	PA-RAM-BET	500	15 days	94.00
Chicory				
<i>Alternaria cichorii</i>, <i>Fusarium</i> (all sections), <i>Botrytis cinerea</i>				
Agar method.	PA-ES-CHI	400	19 days	97.00

Nematology

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

Virology - Uncoated seeds only

		Size	Duration	Price
Beet				
<i>Beet necrotic yellow vein virus</i> (BNYVV)⁴⁰				
ELISA.	PA-VI-41	2 000	16 days	228.00

* COFRAC assay

⁴⁰ Quarantine parasite

Beets - Chicorys - Potatoe

Virology - Uncoated seeds only

		Size	Duration	Price
Beet				
Tomato black ring virus (TBRV)				
ELISA.	PA-VI-37	2 000	16 days	161.00
Beet mosaic virus (BtMV)				
ELISA.	PA-VI-73		Contact SNES	
Tobacco rattle virus (TRV)				
ELISA.	PA-VI-82		Contact SNES	

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Beets				
Heterodera schachtii				
GEVES protocol.	PA-R-BET	75	/	855.00
Aphanomyces cochlidioides				
Official protocol.	PA-R-BET-1		Contact SNES	
Rhizoctonia solani				
Evaluation of aggressivity of an isolate.	PA-R-BET-2		Contact SNES	
Potato				
Globodera pallida⁴⁰				
Counting of eggs and larvae for resistant varieties. Directive 2007/33/CE.	PA-R-POM-1	8	/	793.00
Foot test (miniaturised test: 4 tubercules).	PA-R-POM-5		Contact SNES	
Globodera rostochiensis⁴⁰				
Counting of eggs and larvae for resistant varieties. Directive 2007/33/CE.	PA-R-POM-3	8	/	764.00
Foot test (miniaturised test: 4 tubercules).	PA-R-POM-6		Contact SNES	

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

Technological quality: biochemicals tests

		Size	Duration	Price
Chicory				
Asparagin content.	BI-B-SPEC-ASN		Contact BioGEVES	
Beet				
Betanine (red of beetroot) assay by spectrophotometry.	BI-B-SPEC-BET		Contact BioGEVES	

Field test by SEV

		Price
DUS testing - Sugar beet.	SEV-DHS-BETS	1035.00
DUS testing - Forage beet.	SEV-DHS-BETF	1035.00
DUS testing - Chicory.	SEV-DHS-CHI	1035.00
Resistance test for leaf blight and tuber blight for Potato . Contact aurelie.mailliard@geves.fr	SEV-PDT-MIL	1390.00

PUBLICATIONS

		Price
Germination analysis technical sheet		
Evaluation of Beet seedlings.	GE-T-BET	31.20
Technical sheet for analysis of specific purity and counting of all other seeds		
<i>Beta vulgaris</i> .	AP-C-9	31.20
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 echioides</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	31.20
Collection of seeds - Contact SNES		
Weed's identification for <i>Beta vulgaris</i> analysis.	APCS-BET-V	/

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Purity analysis test				
Purity - Field bean, Faba bean, Lupin, Pea.	PU-IS-02	ISTA weight	/	24.60
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Counting of all other seeds				
Full counting - Field bean, Faba bean, Lupin, Pea.	SP-IS-02	ISTA weight	/	24.60
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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>Avena fatua</i> - Pea.	SP-AF-3KG2	3 kg	/	64.00
Searching of <i>Orobanche</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-ORO	ISTA weight	/	71.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	71.00
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	/	105.00
Moisture content - Provide seeds in sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Supplement for moisture content test requiring pre-drying.	TE-SN-03	/	/	12.80
Determination of bitterness				
Bitter on Lupin.	AMER-LUP1	400	/	64.00
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 200 seeds				
Faba bean, Lupin, Pea, Soybean.	GE-FG-02-2	500	/	42.30
Germination test on 400 seeds				
Faba bean, Lupin, Pea, Soybean.	GE-FG-02-4	1 250	/	51.00
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	/	53.00
Additional cost for a conductivity test on a treated seed sample.	GE-CON-SUP NEW	/	/	5.00
Accelerated ageing of 200 seeds including germination capacity.	GE-VIEI-2	500	/	83.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Pea - Detection of 1 pathogen				
<i>Pseudomonas syringae</i> pv. <i>pisi</i> (Psp)				
Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	PA-BA-21	5 000	26 days	181.00
	PA-BA-70	15 000	26 days	270.00

Protein crops

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Pea - Detection of 1 pathogen				
<i>Pseudomonas syringae</i> pv. <i>pisii</i> (Psp)				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-029).	PA-BA-21-1	5 000	32 days	190.00
<i>Pseudomonas syringae</i> pv. <i>syringae</i> (Pss)				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	PA-BA-22	5 000	32 days	195.00
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-84	15 000	32 days	270.00
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	230.00
	PA-BA-85	15 000	36 days	350.00
Pea - Supplement fee pathogenicity test				
<i>Pseudomonas syringae</i> pv. <i>pisii</i>				
Confirmation by pathogenicity test PCR positive isolates.	PA-PP-PSP	/	9 days	72.00
Soybean				
<i>Pseudomonas savastanoi</i> pv. <i>glycinea</i>				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/04*).	PA-BA-27	5 000	31 days	194.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Faba bean, Field bean				
<i>Didymella fabae</i> (<i>Ascochyta fabae</i>), <i>Botrytis cinerea</i>, <i>Botrytis fabae</i>, <i>Fusarium</i> (all sections)				
Agar method.	PA-ES-FEV	400	19 days	91.00
Lupin				
<i>Colletotrichum lupini</i>, <i>Botrytis cinerea</i>, <i>Fusarium</i> (other sections), <i>Phomopsis</i> sp.				
Agar method.	PA-ES-LUP	400	19 days	91.00
Pea				
<i>Didymella pisi</i> (<i>Ascochyta pisi</i>), <i>Didymella pinodes</i> (<i>Mycosphaerella pinodes</i>), <i>Didymella pinodella</i> (<i>Phoma pinodella</i>), <i>Stemphylium botryosum</i>, <i>Fusarium</i> (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	102.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POI	400	19 days	97.00
<i>Didymella pisi</i> (<i>Ascochyta pisi</i>)				
Agar method (ISTA 7-005).	PA-ANT-POI	400	19 days	102.00
<i>Peronospora viciae</i> (<i>Peronospora pisi</i>) (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-POI	500	15 days	94.00
Chickpea				
<i>Mycosphaerella rabiei</i> (<i>Ascochyta 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	102.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POC	400	19 days	97.00
Soybean				
<i>Phomopsis complex</i>.				
Possibility of detection out of ISTA scope on request of <i>Fusarium</i> (all sections), <i>Stemphylium botryosum</i> , <i>Colletotrichum dematium</i> , <i>Botrytis</i> sp., <i>Phoma</i> sp.				
Agar method (ISTA 7-016).	PA-PHO-SOJ	400	19 days	97.00

Nematology

		Size	Duration	Price
Faba bean				
<i>Ditylenchus dipsaci</i> and/or <i>Ditylenchus gigas</i>				
Filtration (Anses MOA013 parts A and B*). UNTREATED seeds only.	PA-NE-FEV	300 g	16 days	70.00
Test carried out on the whole submitted sample. If the supplied quantity is too important, a new sample will be requested.				
Detection on plants. Filtration (Anses MOA013 parts A and B).	PA-NE-PLAF	/	16 days	78.00

Protein crops

Nematology

Pea

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-POIS 70 g 16 days **70.00**

Virology - Uncoated seeds only

Pea

Tomato black ring virus (TBRV)

ELISA.

PA-VI-37 2 000 16 days **160.00**

Pea early browning virus (PEBV)

ELISA (ISTA 7-024).

PA-VI-31 2 000 16 days **160.00**

Pea enation mosaic virus (PEMV)

ELISA.

PA-VI-57 2 000 16 days **230.00**

Pea seed borne mosaic virus (PSbMV)

ELISA (ISTA 7-024).

PA-VI-11 2 000 16 days **160.00**

Bean yellow mosaic virus (BYMV)

ELISA.

PA-VI-60 Contact SNES

Bean leaf roll virus (BLRV)

ELISA.

PA-VI-67 Contact SNES

Southern bean mosaic virus (SBMV)

ELISA.

PA-VI-88 Contact SNES

Broad bean true mosaic virus (BBTMV)

ELISA.

PA-VI-50 Contact SNES

Soybean

Soybean mosaic virus (SMV)

ELISA.

PA-VI-13 Contact SNES

EVALUATION OF VARIETIES

Varietal resistance

Pea

Ascochyta pisi race C

Official protocol.

PA-R-POI-1 30 / **95.00**

Fusarium oxysporum f. sp. *pisii* race 1

Official protocol.

PA-R-POI-2 30 / **106.00**

BYMV (*Bean yellow mosaic virus*)

Official protocol.

PA-R-POI-3 30 / **98.00**

PEMV (*Pea enation mosaic virus*)

Official protocol.

PA-R-POI-4 30 / **98.00**

Erysiphe pisi

Official protocol.

PA-R-POI-5 30 / **157.00**

Different prices outside test periods. Contact SNES for tests outside periods (March - April)

Genotyping by protein profiling

Soybean

Varietal comparison by isoenzyme electrophoresis.

BI-G-EL-COMP-S Contact BioGEVES

Purity control by iso-enzymatic electrophoresis - 100 g.

BI-G-EL-PUR-S-100G Contact BioGEVES

Description of a variety for 6 loci on 20 seeds.

BI-G-EL-DVAR-S Contact BioGEVES

Purity test of a batch for 6 loci out of 200 seedlings.

BI-G-EL-PUR-S-200G Contact BioGEVES

Protein crops

Genotyping by molecular biology

		Size	Duration	Price
Pea				
Varietal purity analysis.	BI-G-BM-SSR-PUR-90			Contact BioGEVES
Varietal identity control.	BI-G-BM-SSR-CID-1			Contact BioGEVES
Soybean				
Varietal purity analysis.	BI-G-BM-SSR-PUR-90			Contact BioGEVES
Varietal identity control.	BI-G-BM-SSR-CID			Contact BioGEVES

Technological quality : biochemicals tests

		Size	Duration	Price
Field Bean, Pea				
Protein content (NIRS).	BI-B-NIRS-P			Contact BioGEVES
Antitrypsic factors (assay by spectrophotometry).	BI-B-SPEC-FAT			Contact BioGEVES
Tannin content (assay by spectrophotometry).	BI-B-SPEC-TAN			Contact BioGEVES
Vicine and convicine content (faba) by high performance liquid chromatography (HPLC).	BI-B-HPLC-VCCV			Contact BioGEVES
Soybean				
Protein content (NIRS).	BI-B-NIRS-P			Contact BioGEVES
Antitrypsic factors (assay by spectrophotometry).	BI-B-SPEC-FAT			Contact BioGEVES

Detection, identification and quantification of GMOs

		Size	Duration	Price
Soybean				
Detection of the adventitious presence of GMOs in raw products (seeds, grains). List of methods available on request.	BI-D-OGM1			Contact BioGEVES
Identification and quantification of GMO events. List of methods available on request.	BI-D-OGM3			Contact BioGEVES

Field test by SEV

			Price
DUS testing - Field bean, Lupin.	SEV-DHS-FEVLUP		1035.00
DUS testing - Lentil.	SEV-DHS-LEN		1265.00
DUS testing - Spring peas.	SEV-DHS-POIP		1265.00
DUS testing - Winter peas.	SEV-DHS-POIH		1265.00
DUS testing - Chickpea.	SEV-DHS-POIC		1265.00
DUS testing - Soybean.	SEV-DHS-SOJ		1155.00

PUBLICATIONS

		Price
Method sheet		
Vigour testing – Conductivity - Pea.	VIG-2-M	7.60
Germination analysis technical sheet		
Evaluation of Pea seedlings.	GE-T-POI	31.20
Evaluation of Faba seedlings.	GE-T-FEV	31.20
Technical sheet for analysis of specific purity and counting of all other seeds		
<i>Pisum sativum</i> , <i>Vicia faba</i> .	AP-C-8	31.20
<i>Cicer arietinum</i> .	AP-C-12	31.20
Collection of seeds - Contact SNES		
Weed's identification for <i>Pisum sativum</i> and <i>Vicia faba</i> analysis.	APCS-PIS-S	/

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Purity analysis test				
Purity - Wheat, Spelt, Barley, Oat, Rice, Triticale, Rye, Buckwheat.	PU-IS-01	ISTA weight	/	60.00
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Counting of all other seeds				
Full counting - Wheat, Spelt, Barley, Oat, Rice, Triticale, Rye, Buckwheat.	SP-IS-01	ISTA weight	/	132.00
	SP-CER-R1	500 g	/	110.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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>Avena fatua</i> - Wheat, Spelt, Triticale, Rye, Barley, Rice.	SP-AF-3KG1	3 kg	/	186.00
Searching of <i>Avena fatua</i> - Oat.	SP-AF-3KG5	3 kg	/	335.00
Searching of <i>Orobanche</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-ORO	ISTA weight	/	71.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	71.00
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	/	105.00
Moisture content - Provide seeds in sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Supplement for moisture content test requiring pre-drying.	TE-SN-03	/	/	12.80
Determination of bitterness				
Bitter on Quinoa.	AMER-QUI	400	/	64.00
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Wheat, Spelt, Barley, Oats, Rice, Triticale, Rye, Buckwheat.	GE-FG-01-4	1 250	/	47.00
Germination test on 200 seeds				
Wheat, Spelt, Barley, Oats, Rice, Triticale, Rye, Buckwheat.	GE-FG-01-2	500	/	38.70
Vigour test				
Cold Test on 400 seeds.	GE-CO-CE-4	1 250	/	64.00
Cold Test Cereals (200 seeds).	GE-CO-CE-2	500	/	41.00
Accelerated ageing of 200 seeds including germination capacity.	GE-VIEI-2	500	/	83.00
Dormancy evaluation				
Dormancy index for cereal varieties.	GE-IND-DOR NEW	1 000	21 days	50.00

Nematology

		Size	Duration	Price
Oats				
<i>Ditylenchus dipsaci</i>				
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-AV	200 g	16 days	70.00
Rice				
<i>Aphelenchoides besseyi</i>				
Grinding + filtration (ISTA 7-025). UNTREATED seeds only.	PA-NE-RIZ	1 000	16 days	76.00

Virogoly - Uncoated seeds only

		Size	Duration	Price
Wheat, Barley				
<i>Barley stripe mosaic virus (BSMV)</i>				
ELISA.	PA-VI-45		Contact SNES	

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Wheat				
WSSMV (<i>Wheat spindle streak mosaic virus</i>)				
Detection by ELISA.	PA-R-BLE-1	20 plants	/	83.00
SBCMV (<i>Soil-borne cereal mosaic virus</i>)				
Detection by ELISA.	PA-R-BLE-2	20 plants	/	83.00
<i>Tilletia caries</i>				
Method by grow -out and detection on plantlets by PCR (declining price depending on the number of varieties, exemple of price: 532€ per variety for a request of 4 varieties in study).	PA-R-BLE-3		Contact SNES	
Barley				
BaMMV (<i>Barley mild mosaic virus</i>)				
Detection by ELISA.	PA-R-ORG1	20 plants	/	83.00
BaYMV (<i>Barley yellow mosaic virus</i>)				
Detection by ELISA.	PA-R-ORG2	20 plants	/	83.00
Wheat, Barley				
BaMMV (<i>Barley mild mosaic virus</i>)				
Detection by PCR.	BI-D-VIR-MOSA1		Contact BioGEVES	
BaYMV (<i>Barley yellow mosaic virus</i>)				
Detection by PCR.	BI-D-VIR-MOSA2		Contact BioGEVES	
Pathotype identification dCAPS method (Y1/Y2).	BI-D-V-DCAPS		Contact BioGEVES	
BYDV (<i>Barley yellow dwarf virus</i>)				
Detection and identification of BYDV-MAV, BYDV-PAV, BYDV-SGV and BYDV-RPV by PCR.	BI-D-V-JNO		Contact BioGEVES	
WDV (<i>Wheat dwarf virus</i>)				
Detection by PCR.	BI-D-VIR-MOSA5		Contact BioGEVES	
SBWMV (<i>Soil-borne wheat mosaic virus</i>)				
Detection by PCR.	BI-D-VIR-MOSA4		Contact BioGEVES	
SBCMV (<i>Soil-borne cereal mosaic virus</i>)				
Detection by PCR.	BI-D-VIR-MOSA3		Contact BioGEVES	
WSSMV (<i>Wheat spindle streak mosaic virus</i>)				
Detection by PCR.	BI-D-VIR-MOSA6		Contact BioGEVES	

Different prices outside test periods. Contact SNES for tests outside periods (March - April)

Genotyping by protein profiling

		Size	Duration	Price
Durum Wheat				
Research and characterisation of LMW1 and LMW2 bands for the varieties of Durum wheat , 1 variety x 5.	BI-G-EL-LMW		Contact BioGEVES	

Genotyping by molecular biology

		Size	Duration	Price
Durum Wheat, Bread Wheat, Barley, Triticale				
Varietal purity analysis.	BI-G-BM-SSR-PUR-90			Contact BioGEVES
Seed mixture detection.	BI-G-BM-SSR-PUR-40			Contact BioGEVES
Durum Wheat, Barley, Rice, Triticale				
Varietal identity control.	BI-G-BM-SSR-CID-1			Contact BioGEVES
Bread Wheat				
Varietal identification (french collection, organic, recommended varieties for milling).	BI-G-BM-SSR-CID-2			Contact BioGEVES
Varietal identity control for milling.	BI-G-BM-SSR-CID-3			Contact BioGEVES
Varietal identity control for organic wheat.	BI-G-BM-SSR-CID-4			Contact BioGEVES
Malting Barley				
Varietal identity control for brewery.	BI-G-BM-SSR-CID-5			Contact BioGEVES

Technological quality : biochemicals tests

		Size	Duration	Price
Durum Wheat				
Protein content (NIRS).	BI-B-NIRS-P			Contact BioGEVES

Other tests

		Size	Duration	Price
Dormancy index for cereal varieties.	GE-IND-DOR NEW	1 000	21 days	50.00
Barley				
Morphological control of Barley seeds (character of racilla and crease).	SEV-AUT-GROR	1 000	/	42.40

Field test by SEV

				Price
DUS testing - Winter oat .	SEV-DHS-AVH			1035.00
DUS testing - Spring oat .	SEV-DHS-AVP			1035.00
DUS testing - Winter wheat .	SEV-DHS-BTH			1390.00
DUS testing - Spring wheat .	SEV-DHS-BTP			1390.00
DUS testing - Winter barley .	SEV-DHS-ORH			1390.00
DUS testing - Spring barley .	SEV-DHS-ORP			1390.00
DUS testing - Durum wheat .	SEV-DHS-BD			1390.00
DUS testing - Triticale .	SEV-DHS-TRI			1390.00
DUS testing - Rice .	SEV-DHS-RIZ			1390.00

PUBLICATIONS

		Price
Germination analysis technical sheet		
Evaluation of Cereals seedlings.	GE-T-CER	31.20
Identification data sheet of seeds and other impurities		
<i>Cereals (Avena sativa, Triticum aestivum, Triticum durum, Hordeum vulgare, xSecale cereale).</i>	AP-C-5	31.20
<i>Sorghum bicolor.</i>	AP-C-17	31.20
<i>Avena fatua-Avena sativa.</i>	AP-A-02	31.20
Collection of seeds - Contact SNES		
Weed's identification for Cereals analysis.	APCS-CER	/

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Preparation of pure seeds for germination test				
All forage grasses species.	PU-PR-GRA	ISTA weight	/	30.40
Purity analysis test				
Purity - Field bean, Faba bean, Lupin, Pea.	PU-IS-02	ISTA weight	/	24.60
Purity leguminous - Bermuda grass, Fenugreek, Birds-foot trefoil, Alfalfa, Black Medick, Phacelia, Plantain, Sainfoin, Clover, Vetch.	PU-IS-FOU1	ISTA weight	/	45.60
Purity grasses - Festulolium, Tall fescue, Sweet vernal grass, Tall oat grass, Bahia grass, Harding grass, Rye grass, Meadow foxtail.	PU-IS-FOU2	ISTA weight	/	70.00
Purity grasses - Bent-grass, Yellow oatgrass, Brome, Tufted hair grass, Cocksfoot, Sheep fescue, Red fescue, Meadow fescue, Meadow grass.	PU-IS-FOU3	ISTA weight	/	81.00
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Counting of all other seeds				
Full counting - Field bean, Faba bean, Lupin, Pea.	SP-IS-02	ISTA weight	/	24.60
Full counting leguminous - Alfalfa, Black Medick, Phacelia, Narrow-leaf plantain, Clover.	SP-IS-LEG1	ISTA weight	/	141.00
Full counting leguminous - Fenugreek, Birds-foot trefoil, Sainfoin, Vetch.	SP-IS-LEG2	ISTA weight	/	214.00
Full counting grasses - Festulolium, Tall fescue, Sweet vernal grass, Tall oat grass, Bahia grass, Harding grass, Rye grass, Meadow foxtail.	SP-IS-GRA1	ISTA weight	/	300.00
Full counting grasses - Bent-grass, Yellow oatgrass, Brome, Tufted hair grass, Cocksfoot, Sheep fescue, Red fescue, Meadow fescue, Meadow grass.	SP-IS-GRA2	ISTA weight	/	192.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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>Cuscuta</i> spp. - Trefoil, White clover, Hybrid clover, Micheli's clover, Strawberry clover, Arrowleaf clover.	SP-CU100-T	< 100 g	/	86.00
	SP-CU250-T	150 to 300g	/	247.00
	SP-CU500-T	400 to 600g	/	447.00
Searching of <i>Cuscuta</i> spp. - Alfalfa, Black medick, Red clover, Carnation clover, Egyptian clover, Persian clover.	SP-CU100-P	< 100 g	/	35.50
	SP-CU250-P	150 to 300g	/	87.00
	SP-CU500-P	400 to 600g	/	168.00
Searching of <i>Avena fatua</i> - Pea, Vetch.	SP-AF-3KG2	3 kg	/	64.00
Searching by Veskof type - Alfalfa, Black medick, Clover.	SP-VE-02	/	/	169.00
Searching by Veskof type - Other species.	SP-VE-AUTR		Contact SNES	
Searching by dehydration standard on Alfalfa.	SP-DESHY	/	/	80.00
Searching of <i>Orobanche</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-ORO	ISTA weight	/	71.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	71.00
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	/	105.00
Tests on coated seeds				
Purity of coated seeds.	PU-IS-21	2 500	/	32.70
Pelleting material removal and full counting on 2 500 coated seeds. Only on UNTREATED seeds.	SP-ENR2500	2 500	/	97.00
Pelleting material removal and full counting on 7 500 coated seeds. Only on UNTREATED seeds.	SP-ENR-TOT	7 500	/	294.00

Physical quality

		Size	Duration	Price
Tests on coated seeds				
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	/	230.00
Moisture content - Provide seeds in sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Festulolium, Fenugreek, Tall fescue, Timoty, Harding grass, Birdsfoot trefoil, Alfalfa, Black medick, Rye grass, Sainfoin, Clover, Meadow foxtail.	GE-FG-06-4	1 250	/	61.00
Bent-grass, Yellow oatgrass, Brome, Bermuda grass, Cocksfoot, Meadow fescue, Sheep fescue, Red fescue, Tall oat grass, Meadow grass, Vetch.	GE-FG-09-4	1 250	/	71.00
Fodder kale, Forage pea, Forage radish.	GE-FG-18-4	1 250	/	60.00
Germination test on 200 seeds				
Festulolium, Fenugreek, Tall fescue, Timoty, Harding grass, Birdsfoot trefoil, Alfalfa, Black medick, Rye grass, Sainfoin, Clover, Meadow foxtail.	GE-FG-06-2	500	/	42.40
Bent-grass, Yellow oatgrass, Brome, Bermuda grass, Cocksfoot, Meadow fescue, Sheep fescue, Red fescue, Tall oat grass, Meadow grass, Vetch.	GE-FG-09-2	500	/	47.30
Fodder kale, Forage pea, Forage radish.	GE-FG-18-2	500	/	48.30
Fluorescence				
Fluorescence of Rye grass roots on 400 seedlings (germination and identification). Enables distinguishing <i>Lolium perenne</i> showing no fluorescence unlike <i>Lolium multiflorum</i> and <i>Lolium boucheanum</i> these exhibit fluorescent roots.	FLUO-1	/	/	106.00

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Brassicaceae (Cabbage, Cauliflower, Broccoli, Radish, Turnip) - 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	203.00
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	242.00
Agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019a).	PA-BA-03	30 000	36 days	214.00
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	255.00
<i>Xanthomonas campestris</i> pv. <i>armoraciae</i> (<i>raphani</i>) (Xca)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-29	30 000	36 days	195.00
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-30	30 000	36 days	242.00
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> (Psm)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-10	30 000	36 days	195.00
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-33	30 000	36 days	246.00
Brassicaceae (Cabbage, Cauliflower, Broccoli, Radish, Turnip) - Detection of 2 pathogens.				
Xcc + Xca				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc and Xca).	PA-BA-06	30 000	36 days	246.00
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	292.00
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	300.00
Xca + Psm				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-46	30 000	36 days	300.00

Bacteriology - Uncoated seeds only

	Size	Duration	Price	
Brassicaceae (Cabbage, Cauliflower, Broccoli, Radish, Turnip) - Detection of 3 pathogens.				
Xcc + Xca + Psm Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc and Xca).	PA-BA-08	30 000	36 days	350.00
Pea - Detection of 1 pathogen				
<i>Pseudomonas syringae</i> pv. <i>pisi</i> (Psp) Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	PA-BA-21	5 000	26 days	181.00
	PA-BA-70	15 000	26 days	270.00
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-029).	PA-BA-21-1	5 000	32 days	190.00
<i>Pseudomonas syringae</i> pv. <i>syringae</i> (Pss) Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	PA-BA-22	5 000	32 days	195.00
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-84	15 000	32 days	270.00
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	230.00
	PA-BA-85	15 000	36 days	350.00
Vetch				
<i>Pseudomonas syringae</i> pv. <i>pisi</i> Agar method + PCR in case of suspect colonies (method derived from Anses BHs/99/03).	PA-BA-99	5 000	33 days	200.00
Pea - Supplement fee pathogenicity test				
<i>Pseudomonas syringae</i> pv. <i>pisi</i> Confirmation by pathogenicity test PCR positive isolates.	PA-PP-PSP	/	9 days	72.00

Mycology - See p.8 "Seed health"

	Size	Duration	Price	
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 (derived from ISTA method 7-004).	PA-ES-CHO	400	19 days	97.00
<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	242.00
<i>Albugo candida</i> Seed wash method. UNTREATED seeds only.	PA-ALB-CHO	500	15 days	94.00
<i>Hyaloperonospora parasitica</i> (downy mildew) Seed wash method. UNTREATED seeds only.	PA-MI-CHO	500	15 days	94.00
Grow-out method (viability testing).	PA-MICHOGO	400	42 days	119.00
Brome				
<i>Ustilago bullata</i> (<i>Ustilago bromivora</i>) and <i>Ustilago striiformis</i> Seed wash method. UNTREATED seeds only.	PA-CH-BRO	500	15 days	94.00
Cocksfoot/ Orchard Grass				
<i>Epichloe mollis</i> (<i>Neotyphodium typhinum</i>) Grow-out and serological method.	PA-NT2-DAC	100	40 days	674.00
<i>Pyrenophora lolii</i> (<i>Helminthosporium siccans</i>), <i>Pyrenophora dictyoides</i> (<i>Helminthosporium dictyoides</i>), <i>Colletotrichum graminicola</i> (<i>Glomerella graminicola</i>), <i>Fusarium</i> (all sections), <i>Botrytis</i> sp., <i>Helminthosporium</i> sp. Agar method.	PA-ES-DAC	400	19 days	97.00
Fescue				
<i>Epichloe coenophiala</i> (<i>Neotyphodium coenophialum</i>) Serological method (ISTA 7-015). UNTREATED seeds only.	PA-NT2-FET	100	16 days	561.00
Grow-out and serological method.	PA-NT3-FET	100	40 days	674.00
<i>Pyrenophora lolii</i> (<i>Helminthosporium siccans</i>), <i>Pyrenophora dictyoides</i> (<i>Helminthosporium dictyoides</i>), <i>Microdochium</i> spp., <i>Fusarium</i> (all sections), <i>Botrytis</i> sp., <i>Helminthosporium</i> sp. Agar method.	PA-ES-FET	400	19 days	97.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Alfalfa				
<i>Ascochyta medicaginicola (Ascochyta imperfecta), Fusarium oxysporum, Fusarium avenaceum, Verticillium spp., Stemphylium sp., Sclerotinia sp., Colletotrichum sp., Botrytis cinerea, Fusarium</i> (all sections)				
Agar method.	PA-ES-LUZ	400	19 days	97.00
Millet				
<i>Ustilago sp., Sporisorium destruens (Sphacelotheca destruens) or Moesziomyces bullatus (Tolyposporium penicillariae)</i>				
Seed wash method. Please indicate the Latin name of millet. UNTREATED seeds only.	PA-CH-MIL	500	15 days	94.00
Pea				
<i>Didymella pisi (Ascochyta pisi), Didymella pinodes (Mycosphaerella pinodes), Didymella pinodella (Phoma pinodella), Stemphylium botryosum, Fusarium</i> (other sections), <i>Botrytis sp., Sclerotinia sp., Phoma sp.</i>				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-POID	400	19 days	102.00
Agar method without superficial disinfection. Treated seeds only.	PA-ES-POI	400	19 days	97.00
Peronospora viciae (Peronospora pisi) (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-POI	500	15 days	94.00
Didymella pisi (Ascochyta pisi)				
Agar method (ISTA 7-005).	PA-ANT-POI	400	19 days	102.00
Radish				
Hyaloperonospora parasitica (Peronospora parasitica) (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-RAD	500	15 days	94.00
Grow-out method (viability testing).	PA-MIRADGO	400	42 days	119.00
Rye-grass				
Epichloe festuca (Neotyphodium lolii)				
Serological method (ISTA 7-015). UNTREATED seeds only.	PA-NT2-RAY	100	16 days	561.00
Grow-out and serological method (viability testing).	PA-NT3-RAY	100	40 days	674.00
Pyrenophora lolii (Helminthosporium siccans), Pyrenophora dictyoides (Helminthosporium dictyoides), Microdochium spp., Fusarium (all sections), <i>Botrytis sp., Helminthosporium sp.</i>				
Agar method.	PA-ES-RAY	400	19 days	97.00
Clover				
<i>Ascochyta medicaginicola (Ascochyta imperfecta), Fusarium oxysporum, Fusarium avenaceum, Verticillium spp., Stemphylium sp., Sclerotinia sp., Colletotrichum sp., Botrytis cinerea, Fusarium</i> (all sections)				
Agar method.	PA-ES-TRE	400	19 days	97.00

Nematology

		Size	Duration	Price
Alfalfa				
Ditylenchus dipsaci				
Detection by Seed Extract PCR and/or morphobiometry (GEVES M-GEVES/SV/MO/001*). UNTREATED seed only. If the supplied quantity is too important, a new sample will be requested.	PA-NE-LUZG	200 g	10 days	59.00
Pea				
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-POIS	70 g	16 days	70.00
Rye-grass				
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-RAY	70 g	16 days	70.00
Clover				
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-TRE	70 g	16 days	70.00

Fodder plants

Nematology

		Size	Duration	Price
Plants (leaves and stems)				
<i>Ditylenchus dipsaci</i>				
Filtration (Anses MOA013 parts A and B).	PA-NE-PLAN	/	16 days	78.00

Virology - Uncoated seeds only

		Size	Duration	Price
Alfalfa				
<i>Alfalfa mosaic (AMV)</i>				
ELISA.	PA-VI-71	2 000	16 days	150.00
Pea				
<i>Tomato black ring virus (TBRV)</i>				
ELISA.	PA-VI-37	2 000	16 days	160.00
<i>Pea early browning virus (PEBV)</i>				
ELISA (ISTA 7-024).	PA-VI-31	2 000	16 days	160.00
<i>Pea enation mosaic virus (PEMV)</i>				
ELISA.	PA-VI-57	2 000	16 days	230.00
<i>Bean yellow mosaic virus (BYMV)</i>				
ELISA.	PA-VI-60		Contact SNES	
<i>Bean leaf roll virus (BLRV)</i>				
ELISA.	PA-VI-67		Contact SNES	
<i>Southern bean mosaic virus (SBMV)</i>				
ELISA.	PA-VI-88		Contact SNES	
<i>Broad bean true mosaic virus (BBTMV)</i>				
ELISA.	PA-VI-50		Contact SNES	
Pea, Vetch				
<i>Pea seed borne mosaic virus (PSbMV)</i>				
ELISA (ISTA 7-024).	PA-VI-11	2 000	16 days	160.00

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Cabbage				
<i>Fusarium oxysporum f. sp. conglutinans</i> race 1				
Official protocol.	PA-R-CHO	45	/	320.00
<i>Plasmidiophora brassicae</i>				
GEVES protocol.	PA-R-CHO-1	45	/	235.00
Cruciferous (Mustard, Forage radish)				
<i>Heterodera schachtii</i>				
Official protocol.	PA-R-CRU	60	/	698.00
<i>Meloidogyne incognita</i>				
Official protocol.	PA-R-CRU1	45	/	159.00
<i>Meloidogyne hapla</i>				
Official protocol.	PA-R-CRU2	45	/	159.00
<i>Meloidogyne javanica</i>				
Official protocol.	PA-R-CRU3	45	/	159.00
<i>Meloidogyne chitwoodi</i>⁴⁰				
Official protocol.	PA-R-CRU4	45	/	169.00
<i>Meloidogyne fallax</i>⁴⁰				
Official protocol.	PA-R-CRU5 NEW	45	/	169.00
Festulolium, Fescue, Rye-grass, Italian Rye-grass				
<i>Xanthomonas translucens pv. graminis</i>				
Official protocol.	PA-R-RAY	162	/	250.00

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

Varietal resistance

		Size	Duration	Price
Alfalfa				
Ditylenchus dipsaci				
Official protocol.	PA-R-LUZ-1	2 000	/	630.00
Verticillium albo-atrum				
Official protocol.	PA-R-LUZ-2	500	/	497.00
Colletotrichum trifolii				
Official protocol.	PA-R-LUZ-3	500	/	228.00
Identification of the race.	PA-R-IDCOL			Contact SNES
Sclerotinia trifoliorum				
GEVES protocol.	PA-R-LUZ-4	500	/	372.00
Fusarium oxysporum f. sp. medicaginis				
GEVES protocol.	PA-R-LUZ-5	500	/	372.00
Pea				
Ascochyta pisi race C				
Official protocol.	PA-R-POI-1	30	/	95.00
Fusarium oxysporum f. sp. pisi race 1				
Official protocol.	PA-R-POI-2	30	/	106.00
BYMV (Bean yellow mosaic virus)				
Official protocol.	PA-R-POI-3	30	/	98.00
PEMV (Pea enation mosaic virus)				
Official protocol.	PA-R-POI-4	30	/	98.00
Erysiphe pisi				
Official protocol.	PA-R-POI-5	30	/	157.00

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

Technological quality : biochemicals tests

		Size	Duration	Price
Alfalfa, Pea				
Tannin content (assay by spectrophotometry).	BI-B-SPEC-TAN			Contact BioGEVES
Pea				
Antitrypsic factors (assay by spectrophotometry).	BI-B-SPEC-FAT			Contact BioGEVES

Genotyping by molecular biology

		Size	Duration	Price
Fodder Kale, Pea				
Varietal identity control.	BI-G-BM-SSR-CID-1			Contact BioGEVES
Varietal purity analysis.	BI-G-BM-SSR-PUR-90			Contact BioGEVES

Field test by SEV

		Price
DUS testing - Cocksfoot, Tall fescue.	SEV-DHS-DACFET	1265.00
DUS testing - Brome.	SEV-DHS-BRO	1035.00
DUS testing - Festulolium.	SEV-DHS-FES	1035.00
DUS testing - Tall fescue.	SEV-DHS-FETG	1265.00
DUS testing - Field Pea.	SEV-DHS-POIF	1035.00
DUS testing - Sainfoin.	SEV-DHS-SAI	1035.00
DUS testing - Alfalfa.	SEV-DHS-LUZ	1390.00
DUS testing - Salzmänn's restharrow, Fenugreek, Dwarf chickling vetch, Chickling vetch, Hybrid vetch, Narrow-leaved plantain, Field Pea, Berseem clover, Crimson clover, Balansa clover, Persian clover, Clover squarrosom, Arrow-leaf clover, Common Vetch, Hairy vetch, Hungarian vetch, Reddich turfted vetch.	SEV-DHS-AUTFOU	1035.00
New assessment of the value in use of a variety of turf in the catalogue : over 3 years, price per year.	SEV-RETEST-GAZ	2220.00

PUBLICATIONS

		Price
Method sheet		
Vigour testing – Conductivity - Pea.	VIG-2-M	7.60
Germination analysis technical sheet		
Evaluation of Cabbage seedlings.	GE-T-CHOU	31.20
Evaluation of Alfafa seedlings.	GE-T-LUZ	31.20
Evaluation of Pea seedlings.	GE-T-POI	31.20
Evaluation of Radish seedlings.	GE-T-RAD	31.20
Technical sheet for analysis of specific purity and counting of all other seeds		
<i>Gramineae (Lolium spp., Festuca arundinacea, Festuca cf. ovina rubra, Festuca pratensis, Dactylis glomerata).</i>	AP-C-1	31.20
<i>Trifolium spp.</i>	AP-C-1B	31.20
<i>Brassica napus.</i>	AP-C-4	31.20
<i>Medicago sativa, Trifolium pratense.</i>	AP-C-7	31.20
<i>Pisum sativum, Vicia faba.</i>	AP-C-8	31.20
<i>Vicia sativa.</i>	AP-C-11	31.20
Seed blower calibration for uniform blowing (<i>Dactylis glomerata, Poa pratensis, Poa trivialis</i>).	AP-M-2	31.20
Identification data sheet of seeds and other impurities		
<i>Polygonaceae (Persicaria maculosa, Persicaria lapathifolia, Fallopia convolvulus, Polygonum aviculare, Rumex sp., Rumex acetosella, Rumex maritimus).</i>	AP-A-03	31.20
<i>Chenopodium sp., Atriplex sp., Amaranthus sp., Reseda sp., Myosotis sp.</i>	AP-A-04	31.20
<i>Lathyrus spp. (Lathyrus sylvestris, Lathyrus latifolius, Lathyrus hirsutus, Lathyrus tuberosus, Lathyrus odoratus, Lathyrus aphaca, Lathyrus pratensis, Lathyrus sativus, Lathyrus cicera).</i>	AP-A-05	31.20
<i>Asteraceae (Anthemis arvensis, Glebionis segetum, Chicorium sp., Tripleurospermum inodorum, Helminthotheca echioïdes, Lapsana communis, Lactuca sativa, Sonchus spp., Cirsium arvense, Cirsium vulgare, Centaurea cyanus).</i>	AP-A-06	31.20
<i>Cuscuta spp.</i>	AP-P-1	31.20
<i>Claviceps purpurea - Sclerotinia sclerotiorum.</i>	AP-P-2	31.20
Collection of seeds - Contact SNES		
Weed's identification for Brassica napus analysis.	APCS-BRA-N	/
Weed's identification for Medicago sativa and Trifolium pratense analysis.	APCS-MED-S	/
Weed's identification for Pisum sativum and Vicia faba analysis.	APCS-PIS-S	/

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	489.00
From 4 components WITH declared composition ² .	PU-MEL-02		Contact SNES	
WITHOUT declared composition.	PU-MEL-03	/	60 days	803.00
Preparation of pure seed for germination testing				
Seed mixture (less than 4 components) WITH declared composition ² .	PU-PR-19	/	/	202.00
From 4 components WITH declared composition ² .	PU-PR-22		Contact SNES	
WITHOUT declared composition.	PU-PR-19-1	/	/	484.00
Preparation of pure seeds in dragees on coated seed mixture.	PU-PR-19-2	/	/	34.20

² Provide the % of species in the seed mixture.

Physiological quality

			Price
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		/ ³
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

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

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Purity analysis test				
Purity - Hemp.	PU-IS-14	ISTA weight	/	43.40
Purity - Flax.	PU-IS-15	ISTA weight	/	32.10
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Counting of all other seeds				
Full counting - Hemp.	SP-IS-13	ISTA weight	/	75.00
Full counting - Flax.	SP-IS-14	ISTA weight	/	43.40
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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	/	71.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	71.00
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	/	105.00
Moisture content - Provide seeds in sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Hemp, Flax.	GE-FG-14-4	1 250	/	53.00
Germination test on 200 seeds				
Hemp, Flax.	GE-FG-14-2	500	/	39.60

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Hemp				
<i>Botrytis cinerea</i>, <i>Sclerotinia sclerotiorum</i>				
Blotter method.	PA-ES-CHA	400	23 days	128.00
Flax				
<i>Botrytis cinerea</i>, <i>Boeremia exigua</i> (<i>Phoma exigua</i>), <i>Colletotrichum linicola</i> (<i>Colletotrichum lini</i>), <i>Alternaria linicola</i>, <i>Fusarium</i> (all sections)				
Agar method.	PA-ES-LIN	400	23 days	97.00
<i>Alternaria linicola</i>, <i>Botrytis cinerea</i>, <i>Colletotrichum linicola</i> (<i>Colletotrichum lini</i>)				
Agar method (ISTA 7-007).	PA-BOT-LIN	400	23 days	96.00

EVALUATION OF VARIETIES

Varietal resistance

	Size	Duration	Price
Hemp			
<i>Phelipanche ramosa</i>			
Official protocol.	GE-TR-CHOR	/	310.00

Genotyping by molecular biology

	Size	Duration	Price
Flax			
Varietal identity control.	BI-G-BM-SSR-CID-1	Contact BioGEVES	
Varietal purity analysis.	BI-G-BM-SSR-PUR-90	Contact BioGEVES	

Technological quality: biochemicals tests

	Size	Duration	Price
Flax			
Fatty acid composition (Method GC).	BI-B-CPG-AG	Contact BioGEVES	
Oil content (NMR).	BI-B-RMN-H	Contact BioGEVES	

Field test by SEV

		Price
DUS testing - Flax, Linseed.	SEV-DHS-LIN	1155.00
DUS testing - Hemp.	SEV-DHS-CHA	1260.00

PUBLICATIONS

		Price
Germination analysis technical sheet		
Evaluation of Hemp and Flax seedlings.	GE-T-LIN	31.20

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Purity analysis test				
Purity - Corn, Sorghum.	PU-IS-02	ISTA weight	/	24.60
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Counting of all other seeds				
Full counting - Corn, Sorghum.	SP-IS-02	ISTA weight	/	24.60
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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 sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Supplement for moisture content test requiring pre-drying.	TE-SN-03	/	/	12.80
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Corn, Sorghum.	GE-FG-01-4	1 250	/	47.00
Germination test on 200 seeds				
Corn, Sorghum.	GE-FG-01-2	500	/	38.70
Vigour tests				
Cold-test on 400 seeds.	GE-CO	1 250	/	64.00
Cold-test on 200 seeds.	GE-CO2	500	/	41.00
Accelerated ageing of 200 seeds including germination capacity.	GE-VIEI-2	500	/	83.00
Radicle emergence test on 200 seeds (ISTA test) - Corn.	GE-EM	/	/	71.00
Corn root length evaluation after 7 days germination at 15°C (4 replicates of 20 seeds).	GE-RAC	/	/	71.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Corn				
<i>Bipolaris zeicola</i> (<i>Helminthosporium carbonum</i>), <i>Fusarium</i> (section <i>Liseola</i> and other sections), <i>Cephalosporium</i> sp., <i>Cochliobolus heterostrophus</i> (<i>Helminthosporium maydis</i>), <i>Stenocarpella maydis</i> (<i>Diplodia maydis</i>), <i>Stenocarpella macrospora</i> (<i>Diplodia macrospora</i>), <i>Colletotrichum graminicola</i>, <i>Nigrospora</i> sp.				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-ES-MAID	400	19 days	102.00
<i>Bipolaris zeicola</i> (<i>Helminthosporium carbonum</i>), <i>Fusarium</i> (section <i>Liseola</i> and other sections), <i>Cephalosporium</i> sp., <i>Cochliobolus heterostrophus</i> (<i>Helminthosporium maydis</i>), <i>Stenocarpella maydis</i> (<i>Diplodia maydis</i>), <i>Stenocarpella macrospora</i> (<i>Diplodia macrospora</i>), <i>Colletotrichum graminicola</i>, <i>Nigrospora</i> sp.				
Agar method without superficial disinfection. Treated seeds only.	PA-ES-MAI	400	19 days	97.00
<i>Ustilago maydis</i> and <i>Sporisorium reilianum</i> (<i>Sphacelotheca reiliana</i>)				
Seed wash method. UNTREATED seeds only.	PA-CH-MAIS	500	15 days	94.00

Corn and sorghum

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Corn				
<i>Sclerospora</i> spp., <i>Sclerophthora</i> spp., <i>Peronosclerospora</i> spp.				
Seed wash method. UNTREATED seeds only.	PA-MI-MAIS	500	15 days	94.00
Sorghum				
<i>Bipolaris oryzae</i> (<i>Helminthosporium oryzae</i>), <i>Bipolaris cookei</i> (<i>Helminthosporium sorghicola</i>), <i>Fusarium</i> section <i>liseola</i> , <i>Fusarium</i> (other sections), <i>Macrophomina phaseolina</i> , <i>Helminthosporium</i> sp.				
Agar method.	PA-ES-SOR	400	19 days	97.00

Virology - Uncoated seeds only

		Size	Duration	Price
Corn - Detection of 1 pathogen				
Maize chlorotic mottle virus (MCMV)				
ELISA on plantlets.	PA-VI-66	1 000	37 days	293.00
Maize dwarf mosaic virus (MDMV)				
ELISA on plantlets.	PA-VI-44	1 000	37 days	293.00
Wheat high plains virus (WHPV)				
ELISA on plantlets.	PA-VI-62	1 000	37 days	293.00
Sugarcane mosaic virus (SCMV)				
ELISA on plantlets.	PA-VI-89	1 000	37 days	293.00
Wheat streak mosaic virus (WSMV)				
ELISA on plantlets.	PA-VI-92	1 000	37 days	293.00
Corn - Detection of 2 pathogens. Specify the 2 required viruses				
MCMV/MDMV/CMV/WSMV				
ELISA on plantlets.	PA-VI-59	1 000	37 days	455.00
Corn - Detection of 3 pathogens. Specify the 3 required viruses				
MCMV/MDMV/CMV/WSMV				
ELISA on plantlets.	PA-VI-96	1 000	37 days	567.00
Corn - Detection of 4 pathogens				
MCMV/MDMV/CMV/WSMV				
ELISA on plantlets.	PA-VI-54	1 000	37 days	803.00

EVALUATION OF VARIETIES

Genotyping by protein profiling

		Size	Duration	Price
Corn				
Varietal comparison by isoenzyme electrophoresis.	BI-G-EL-COMP-M		Contact BioGEVES	
Hybrid Conformity by isoenzyme electrophoresis.	BI-G-EL-CONF-M		Contact BioGEVES	
Description of a lineage for 19 loci out of 4 seedlings.	BI-G-EL-DVAR-M-19		Contact BioGEVES	
Description of a lineage for 14 loci out of 4 seedlings.	BI-G-EL-DVAR-M-14		Contact BioGEVES	
Identity check test of a line or a hybrid in relation to genitors declared for 14 loci out of 10 grains.	BI-G-EL-CID-M-10		Contact BioGEVES	
Identity check test of a line or a hybrid in relation to genitors declared for 14 loci out of 30 grains.	BI-G-EL-CID-M-30		Contact BioGEVES	
Purity control by iso-enzymatic electrophoresis - 14I.	BI-G-EL-PUR-M-14		Contact BioGEVES	
Purity control by iso-enzymatic electrophoresis - 19I.	BI-G-EL-PUR-M-19		Contact BioGEVES	

Genotyping by molecular biology

		Size	Duration	Price
Corn, Sorghum				
Varietal identity control.	BI-G-BM-SSR-CID-1		Contact BioGEVES	
Varietal purity analysis.	BI-G-BM-SSR-PUR-90		Contact BioGEVES	
Corn				
Hybrid conformity.	BI-G-BM-SSR-CONF		Contact BioGEVES	

Corn and sorghum

Technological quality: biochemicals tests

	Size	Duration	Price
Sorghum			
Tannin content (assay by spectrophotometry).	BI-B-SPEC-TAN		Contact BioGEVES

Detection, identification and quantification of GMOs

	Size	Duration	Price
Corn			
Detection of the adventitious presence of GMOs in raw products (seeds, grains). List of methods available on request.	BI-D-OGM		Contact BioGEVES
Identification and quantification of GMO events*. List of methods available on request.	BI-D-OGM2		Contact BioGEVES

Field test by SEV

		Price
DUS testing - Corn .	SEV-DHS-MAIS	1155.00
DUS testing - Sorghum .	SEV-DHS-SOR	1155.00

PUBLICATIONS

		Price
Germination analysis technical sheet		
Evaluation of Corn seedlings.	GE-FAP-ZM	31.20
Technical sheet for analysis of specific purity and counting of all other seeds		
<i>Zea mays</i> .	AP-C-6	31.20
Identification data sheet of seeds and other impurities		
<i>Sorghum bicolor</i> .	AP-C-17	31.20
Collection of seeds - Contact SNES		
Weed's identification for <i>Zea mays</i> analysis.	APCS-ZEA-M	/

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	MMS-01	/	/	31.50
Purity analysis test				
Purity - Sunflower, Soybean.	PU-IS-02	ISTA weight	/	24.60
Purity - Cabbage-Turnip, Rapeseed, Rutabaga.	PU-IS-17	ISTA weight	/	36.40
Percentage of a specific type of other seeds. Specify the search to be performed.	PU-CONS1	/	/	8.60
Percentage of a specific type of inert materials. Specify the search to be performed.	PU-CONS2	/	/	8.60
Purity analysis test				
Supplement for purity analysis if received as raw seeds or a very dirty sample.	PU-LB-SUP NEW	/	/	30.00
Full counting				
Full counting - Soybean.	SP-IS-02	ISTA weight	/	24.60
Counting of all other seeds				
Full counting - Sunflower.	SP-IS-15	ISTA weight	/	67.00
Full counting - Cabbage-Turnip, Rapeseed, Rutabaga.	SP-IS-16	ISTA weight	/	113.00
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	PU-SP-01	/	/	12.80
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	/	61.00
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	/	97.00
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	/	71.00
Searching of <i>Striga</i> sp. Only on UNTREATED and UNCOATED seeds. Analyse performed on a separate, sealed, submitted subsample.	SP-STRIGA	ISTA weight	/	71.00
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	/	105.00
Moisture content - Provide seeds in sealed foil sachets from which as much air as possible has been extracted				
Oven method.	TE-SN-01	ISTA weight	/	19.70
Supplement for moisture content test requiring pre-drying.	TE-SN-03	/	/	12.80
Identification of individual seeds				
Visual identification by species.	ID-IS-01	/	/	33.00

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Sunflower.	GE-FG-16-4	1 250	/	51.00
Rapeseed, Mustard, Turnip Rape.	GE-FG-17-4	1 250	/	50.00
Germination test on 200 seeds				
Sunflower.	GE-FG-16-2	500	/	42.30
Rapeseed, Mustard, Turnip Rape.	GE-FG-17-2	500	/	38.50
Vigour test				
Cold Test (400 seeds) - Sunflower.	GE-CO-TO-4	1 250	/	64.00
Cold Test (200 seeds) - Sunflower.	GE-CO-TO-2	500	/	41.00
Vigour test - Early count in cold (200 seeds) - Sunflower .	GE-EM-TO	/	/	34.40
Controlled deterioration of 200 seeds including germination capacity.	GE-DET-1	500	/	83.00
Radicle emergence test on 200 seeds (ISTA test) - Rapeseed.	GE-EM	/	/	71.00
Conductivity test on 200 seeds on ISTA species.	GE-CON-GLO	500	/	53.00
<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>				

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Rape - 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	203.00
Agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019a).	PA-BA-03	30 000	36 days	214.00
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	242.00
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	255.00
<i>Xanthomonas campestris</i> pv. <i>armoraciae</i> (<i>raphani</i>) (Xca)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-29	30 000	36 days	195.00
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-30	30 000	36 days	242.00
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> (Psm)				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-10	30 000	36 days	195.00
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies.	PA-BA-33	30 000	36 days	246.00
Rape - Detection of 2 pathogens				
Xcc + Xca				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc and Xca).	PA-BA-06	30 000	36 days	246.00
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	292.00
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	300.00
Xca + Psm				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-46	30 000	36 days	300.00
Rape - Detection of 3 pathogens				
Xcc + Xca + Psm				
Agar method + pathogenicity test in case of suspect colonies colonies (ISTA 7-019a without counting of colonies for Xcc and Xca).	PA-BA-08	30 000	36 days	350.00
Sunflower				
<i>Pseudomonas syringae</i> pv. <i>helianthi</i>				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-87	5 000	36 days	257.00
<i>Xanthomonas arboricola</i>				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-100	5 000	39 days	257.00
<i>Pseudomonas cichorii</i>				
Agar method + pathogenicity test in case of suspect colonies.	PA-BA-122	5 000	36 days	262.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Rape				
<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	97.00
<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	242.00
<i>Albugo candida</i>				
Seed wash method. UNTREATED seeds only.	PA-ALB-CHO	500	15 days	94.00
<i>Hyaloperonospora parasitica</i> (downy mildew)				
Seed wash method. UNTREATED seeds only.	PA-MI-CHO	500	15 days	94.00
Grow-out method (viability testing).	PA-MICHOGO	400	42 days	119.00
Carnation				
<i>Alternaria papavericola</i> (<i>Helminthosporium papaveris</i>), <i>Fusarium</i> (all sections), <i>Botrytis</i> sp., <i>Alternaria</i> sp.				
Agar method.	PA-ES-OEI	400	19 days	97.00

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Sunflower				
Botrytis cinerea, Sclerotinia sclerotiorum, Alternariaster helianthi (Alternaria helianthi)				
Blotter method derivated from ISTA method 7-003.	PA-ES-TOU	400	23 days	125.00
Botrytis cinerea				
Blotter method (ISTA 7-003).	PA-BOT-TOU	400	23 days	128.00
Phomopsis helianthi (Diaporthe helianthi), Botrytis cinerea, Sclerotinia sclerotiorum, Alternariaster helianthi (Alternaria helianthi)				
Agar method with superficial disinfection. UNTREATED seeds only.	PA-PHOTOUD	400	23 days	102.00
Agar method without superficial disinfection. Treated seeds only.	PA-PHO-TOU	400	23 days	96.00
Puccinia helianthi (rust)				
Seed wash method. UNTREATED seeds only.	PA-RO-TOU	500	15 days	94.00
Septoria helianthi (leaf spot)				
Seed wash method. UNTREATED seeds only.	PA-SEP-TOU	500	15 days	94.00
Pustula tragopogonis (Albugo tragopogonis) (white rust)				
Seed wash method. UNTREATED seeds only.	PA-ALB-TOU	500	15 days	94.00

Virology - Uncoated seeds only

		Size	Duration	Price
Sunflower				
Cucumber mosaic virus (CMV)				
ELISA.	PA-VI-56	2 000	16 days	225.00

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Rapeseed				
Plasmodiophora brassicae pathotypes P1+ / P1- / P2+ or P2-				
Official protocol.	PA-R-COLZA	45	/	267.00
Identification of Plasmodiophora brassicae pathotype				
From galls, per sample.	PA-RIDPLA1	/	/	434.00
From soil, per sample.	PA-RIDPLA3	/	/	652.00
Sunflower				
Plasmopara halstedii races 100 / 304 / 307 / 314 / 334 / 703 / 704 / 710 / 714 / 774 or 714-PI8				
Official protocol on 30 plants (hybrids). For all requests for 9 races during the CTPS test period (April-May) or any request for 9 races outside CTPS test periods but on a minimum of 20 varieties, a 20% discount will be carried out.	PA-R-TOURN1	45	/	95.00
Official protocol on 60 plants (lines).	PA-R-TOURN2	45	/	165.00
Plasmopara halstedii				
Identification of the race.	PA-ID-PLA	/	/	311.00
Resistance to OXTP, by isolate.	PA-RIDPLA2	/	/	94.00

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

Genotyping by protein profiling

		Size	Duration	Price
Rapeseed				
Varietal comparison by isoenzyme electrophoresis.	BI-G-EL-COMP-C			Contact BioGEVES
Hybrid conformity by Isoenzyme electrophoresis.	BI-G-EL-CONF-C			Contact BioGEVES
Description of a variety for 6 loci out of 10 seedlings.	BI-G-EL-DVAR-C			Contact BioGEVES
Purity test of a batch for 6 loci out of 100 seedlings.	BI-G-EL-PUR-C-100P			Contact BioGEVES

Genotyping by molecular biology

	Size	Duration	Price
Rapeseed, Sunflower			
Varietal purity analysis.	BI-G-BM-SSR-PUR-90	Contact BioGEVES	
Varietal identity control.	BI-G-BM-SSR-CID-1	Contact BioGEVES	
Rapeseed			
Hybrid conformity.	BI-G-BM-SSR-CONF	Contact BioGEVES	

Technological quality : biochemicals tests

	Size	Duration	Price
Rapeseed			
Glucosinolate content on whole plants or parts of plants (HPLC).	BI-B-HPLC-GLU-2	Contact BioGEVES	
Rapeseed, Sunflower			
Oil content (NMR).	BI-B-RMN-H	Contact BioGEVES	
Camelina, Rapeseed, Sunflower			
Fatty acid composition (CPG method).	BI-B-CPG-AG	Contact BioGEVES	
Camelina, Rapeseed, White and brown Mustard			
Glucosinolate content (HPLC method).	BI-B-HPLC-GLU-1	Contact BioGEVES	
Glucosinolate content (NIRS).	BI-B-NIRS-GLU	Contact BioGEVES	
Protein content (NIRS).	BI-B-NIRS-P	Contact BioGEVES	
Oil content (NIRS).	BI-B-NIRS-H	Contact BioGEVES	

Detection, identification and quantification of GMOs

	Size	Duration	Price
Rapeseed			
Detection of the adventitious presence of GMOs in raw products (seeds, grains). List of methods available on request.	BI-D-OGM1	Contact BioGEVES	
Identification and quantification of GMO events. List of methods available on request.	BI-D-OGM3	Contact BioGEVES	

Field test by SEV

		Price
DUS testing - Rapeseed .	SEV-DHS-COL	1390.00
DUS testing - Sunflower .	SEV-DHS-TOU	1155.00
Checking the pollen beetles trap characteristic - Rapeseed . Contact patrick.bagot@geves.fr	SEV-COL-MEL	/

PUBLICATIONS

		Price
Method sheet		
Vigour testing – Rapeseed .	VIG-1-M	7.60
Vigour testing – Conductivity - Pea .	VIG-2-M	7.60
Germination method of Rapeseed .	GE-M-COL	7.60
Germination analysis technical sheet		
Evaluation of Sunflower seedlings.	GE-T-TOU	31.20
Evaluation of Rapeseed seedlings.	GE-FAP-BN	31.20
Technical sheet for analysis of specific purity and counting of all other seeds		
<i>Helianthus annuus</i> .	AP-C-2	31.20
<i>Glycine max</i> .	AP-C-3	31.20
<i>Brassica napus</i> .	AP-C-4	31.20
Identification data sheet of seeds and other impurities		
<i>Chenopodium sp.</i> , <i>Atriplex sp.</i> , <i>Amaranthus sp.</i> , <i>Reseda sp.</i> , <i>Myosotis sp.</i>	AP-A-04	31.20
<i>Claviceps purpurea</i> - <i>Sclerotinia sclerotiorum</i> .	AP-P-2	31.20
Collection of seeds - Contact SNES		
Weed's identification for <i>Brassica napus</i> analysis.	APCS-BRA-N	/
Weed's identification for <i>Helianthus annuus</i> analysis.	APCS-HEL-A	/

Micro-cleaning

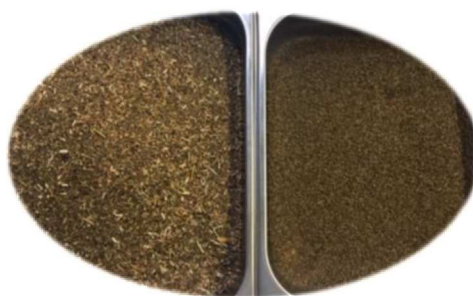
Micro-cleaning of seed lots consists in determining the percentage of waste in raw seed lots, from a harvest, using sorting machines, laboratory replicates of industrial machines.

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	56.00 €
Micro-cleaning. Standard protocol. Peas, Beans, Cucurbits.	MN-SN-02	51.00 €
Micro-cleaning. Standard protocol. Carrots.	MN-SN-03	80.00 €
Micro-cleaning. Standard protocol. Other vegetable crops.	MN-SN-04	72.00 €
Micro-cleaning. Standard protocol. Other field crop species.	MN-SN-05	64.00 €
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	95.00 €
Micro-cleaning. Standard protocol. Chicory	MN-SN-09	NEW 72.00 €
Micro-cleaning. Standard protocol. Small leguminous.	MN-SN-10	NEW 65.00 €
Additional charge for lots not presorted or requiring additional sorting time.	MN-SN-11	NEW 50.00€/h
Supplement fee. Details of each grid with percentage results.	MN-SUP	12.00€

Requests for information: contact.mn@geves.fr

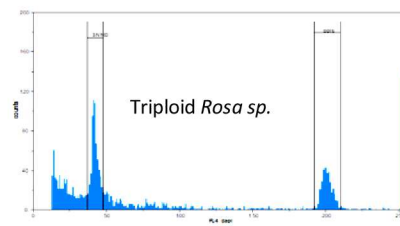
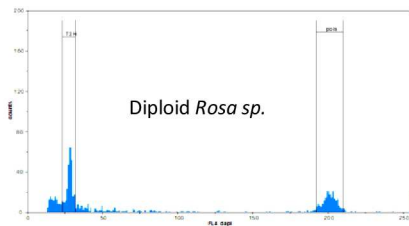
Evaluation of ploidy level from plants or seeds.

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

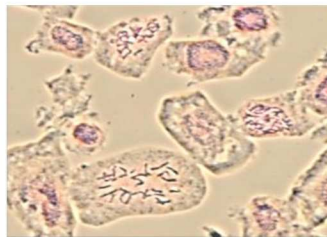
Flow cytometry is a technic based on the marking of DNA with fluorochromes. The cytometer allows a precise measurement of the amount of fluorescence emitted by the cells after marking and excitation by a light beam. The measurement of the quantity of fluorescence emitted will then be compared to a control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

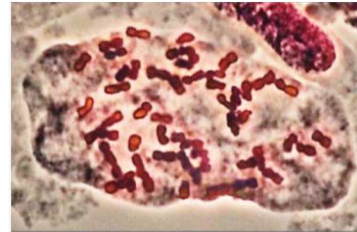


MICROSCOPY

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

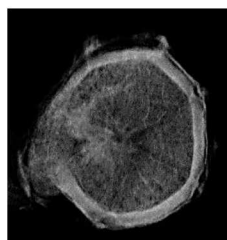
Tools for evaluating seed quality.

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	24.00 €
2D image interpretation for internal morphological characterisation, the detection of insect/physical damage (%).	RX-SUP-03	15.00 €
Supply of one 2D image in .jpg format, for a particular determination or for measurements.	RX-SUP-RA	1.00 €
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	43.40

SELECTIVITY TESTS

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

		Price
Vegetables.	GE-FG-18-4	60.00
Cereals.	GE-FG-01-4	47.00
Oilseeds.	GE-FG-17-4	50.00

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

All species.	GE-FG-PCPL	21.40
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EVALUATION OF TREATMENTS FOR SEED AND PLANT PROTECTION

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

Few examples of available pathosystems⁴

Wheat	<i>Fusarium</i> spp. (<i>Fusarium graminearum</i> , <i>Fusarium avenaceum</i> , <i>Fusarium culmorum</i>).	Maize	<i>Fusarium graminearum</i> .
	<i>Tilletia caries</i> .		<i>Fusarium verticillioides</i> .
	<i>Microdochium nivale</i> .		<i>Rhizoctonia solani</i>
Rapeseed	<i>Puccinia striiformis</i> , <i>Puccinia triticina</i> .	Beet	<i>Pythium</i> sp.
	<i>Plasmiodiophora brassicae</i> .		<i>Aphanomyces cochlioides</i> , <i>Pythium</i> sp.
	<i>Hyaloperonospora brassicae</i>	Sunflower	<i>Plasmopara halstedii</i> .
	<i>Phoma lingam</i> .		<i>Fusarium moniliforme</i>
	<i>Alternaria brassicicola</i> .		<i>Verticillium dahliae</i> .
		Lettuce	<i>Fusarium oxysporum</i> .

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

EVALUATION OF BIOSTIMULANT PRODUCTS FOR GERMINATION AND/OR SEEDLING GROWTH

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

		Price / Contact
Monitoring of seed germination on 200 seeds		
Germination energy (intermediate count; in addition to germination capacity).	GE-EG	18.40
Counting dates for energy vary according to the species.		
Germination kinetics by image analysis (average rate of germination, kinetic curve).	GE-CI	sylvie.ducournau@geves.fr
Seedling development tests		
Corn root length evaluation after 7 days germination at 15°C (4 replicates of 20 seeds).	GE-RAC	71.00
Dry biomass of 4 replicates of 20 seedlings after germination test.	GE-BIOM	51.00
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)

Specifics preparations of pests' inoculum

		Size	Duration	Price
Specific preparation				
Suspension of <i>Ditylenchus dipsaci</i> larvae (exemple of price: 1 270€ to inoculate 9000 plants).	PA-AD-DIT			Contact SNES
Beet seedlings contaminated with viruliferous aphids <i>Myzus persicae</i> carrying yellowing virus BChV (<i>Beet chlorosis virus</i>).	PA-AD-MYZ			Contact SNES
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	/	/	120.00
100 mg of a vial of spores of stripe rust (<i>Puccinia striiformis</i>) or brown rust (<i>Puccinia recondita</i>) or crown rust (<i>Puccinia coronata</i>).	PA-AD-ROU	/	/	54.00
Inoculum supplied in Petri dishes.	PA-AD-INOC			Contact SNES
Inoculum supplied as contaminated cotyledons, plants or fresh leaves.	PA-AD-INOP			Contact SNES
Inoculum supplied in artificially contaminated grains that have lost germination capacity or artificially contaminated seeds that have maintained a germination capacity.	PA-AD-INOG			Contact SNES
Inoculum supplied in liquid suspension.	PA-AD-INOL			Contact SNES
Cyst of <i>Globodera pallida</i> ⁴⁰ or <i>Globodera rostochiensis</i> ⁴⁰ .	PA-AD-GLO			Contact SNES
Cyst of <i>Heterodera schachtii</i> .	PA-AD-HET			Contact SNES

Reference material : isolates and seeds

		Price
Bioagressors isolates		
Specific preparation of reference isolate in Petri dishes (2 dishes/strain), dessicated (Bos) (1 g) or population of free living nematodes or cysts (around 20).	PA-AD-FOU	150.00
Specific preparation of 5 g of galls of <i>Meloidogyne incognita</i> (for inoculation of 15 to 20 plantlets).	PA-AD-MEL	160.00
Specific preparation of 5 g of galls of <i>Plasmiodiophora brassicae</i> (for inoculation of 50 to 100 plantlets).	PA-AD-PLAD	160.00
Specific preparation		
50 to 100 seeds of germinated Sunflower seeds contaminated by <i>Plasmopara halstedii</i> (downy mildew).	PA-AD-TOU2	137.00
Lettuce seedlings infected with 1 race of <i>Bremia lactucae</i> , 30 cotyledons in the test period.	PA-AD-BREM	160.00
<i>Erysiphe pisi</i> , 2 seedlings with presence of sporulation.	PA-AD-ERYS	160.00
2 cotyledons of Melon infected by 1 race of <i>Golovinomyces cichoracearum</i> (powdery mildew).	PA-AD-GOL	160.00
2 cotyledons of Melon infected by 1 race of <i>Podosphaera xanthii</i> (powdery mildew).	PA-AD-POD	160.00
2 Lettuce seedlings infected with <i>Nasonovia ribisnigri</i> race Nr: 0 with presence of apterae.	PA-AD-NAS	160.00
30 leaves of Basil contaminated by <i>Peronospora belbahri</i> .	PA-AD-BEL	160.00
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	326.00
Controls/differential hosts vegetables (MATREF) for one sowing unit (1 g for Bremia, 200 seeds for other pathogens)		
Carrot.	PA-HD-CAR	47.00
Squash.	PA-HD-COU	77.00
Watermelon.	PA-HD-PAS	77.00
Bean.	PA-HD-HAR	60.00
Lettuce.	PA-HD-LAI	60.00
Corn salad.	PA-HD-MAC	43.80
Melon.	PA-HD-MEL	77.00
Capsicum.	PA-HD-PIM	88.00
Pea.	PA-HD-POI	60.00
Tomato.	PA-HD-TOM	77.00
Tomato Rootstock.	PA-HD-PGTO	88.00

INTER-LABORATORY PROFICIENCY TESTS (PT)

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), and the shipment cost (billed on the basis of a Chronopost shipment).

Inter-laboratory proficiency tests – PT & Other comparisons

	Price	Contact
Purity – All species (based on 15 participants).	177.00	
Germination – All species (based on 15 participants).	120.00	
Moisture content – All species (based on 15 participants).	77.00	
Thousand-seed weight – All species (based on 15 participants).	70.00	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.	/	Fabienne BRUN
Seed quality analysis, inter or in-company, at SNES or on-site.	/	formation.semences@geves.fr
Technical training with BioGEVES.	/	biogeves.analyses@geves.fr
Technical training with SEV.	/	rachel.tessier@geves.fr

For the setting up of an expertise in an international context

Technical expertise and visit.	/	secretariat.direction@geves.fr
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Collective reading of results

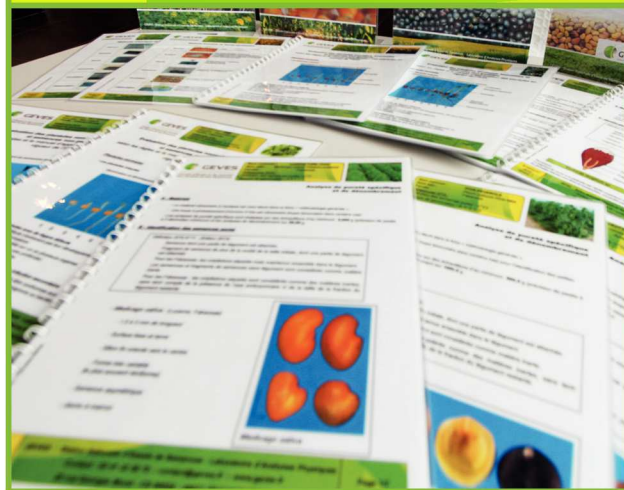
Collective reading of germination results, details of abnormal and debriefing of the results reading, per sample.	GE-LECT	96.00 €	service.clients@geves.fr
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OUR PUBLICATIONS • AND REFERENCE MATERIAL

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

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.