GEVES PRICE LIST 2024

Field & Forage

Variety and Seed Study and Control Group

GEVES

Expertise & Performance

www.geves.fr

GEVES
Expertise & Performance

SUMMARY

GEVES: A unique &

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

- The French National Research Institute for Agriculture, Food and Environment (INRAE)- 60%
- The French Ministry of Agriculture and Food (MAA) - 20%
- The French Interprofessional Organisation for Seeds and Plants - 20%

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

Governance of GEVES

GEVES's Executive Board of Directors is composed of 13 members:

6 representatives from INRAE

2 representatives from the Ministry of Agriculture and Food

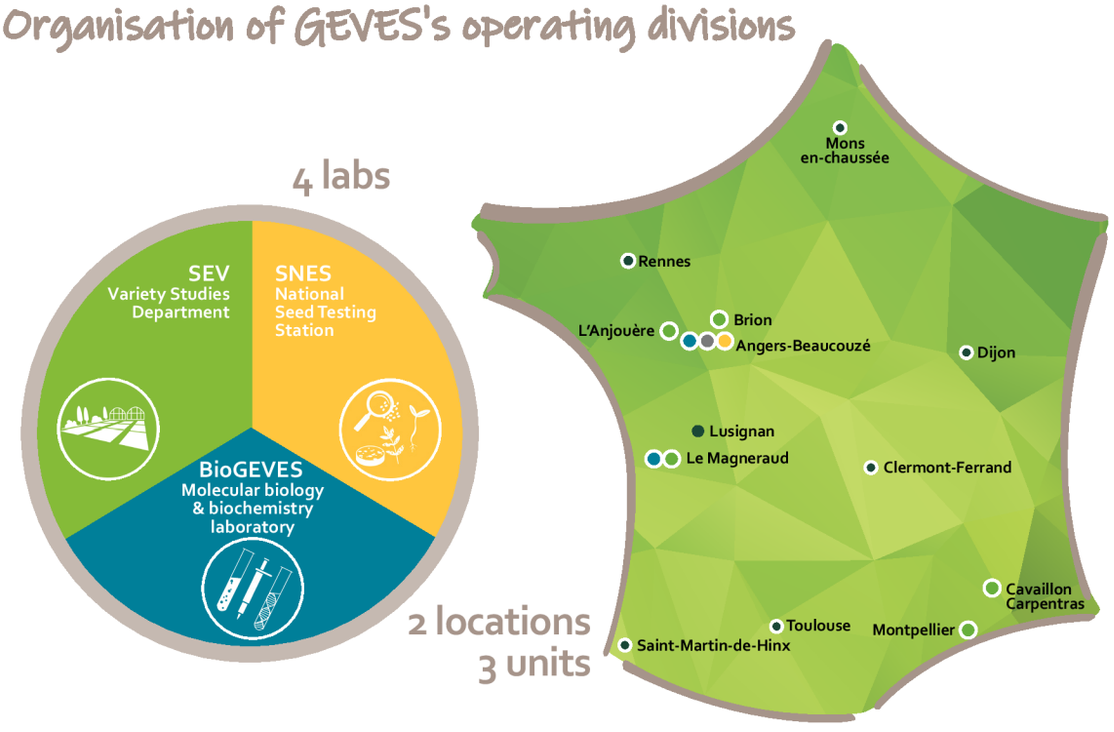
2 representatives from GNIS

2 staff representatives from GEVES

The President of the CTPS

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

Organisation of GEVES's operating divisions



GEVES's missions

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

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

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

GEVES is the National Reference Laboratory for:

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

GEVES is an approved laboratory for certain seed health quality tests

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

GEVES makes its specialised expertise openly available to the plant and seed sectors, providing high-quality services to a range of private customers.

Activities

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

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

FOCUS

Quality, Recognition & Accreditation

N° 2018/78826.1

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 Beaucouzé: 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.

Place an order

Seed quality testing
SNES

ORDER YOUR ANALYSE ONLINE

http://dsn.geves.info

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

For faster processing of your request, please order online

SEND YOUR ORDER VIA POST

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

- Send the sample to:

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

Biomolecular and biochemical testing
BioGEVES

ORDER YOUR ANALYSE ONLINE

biogeves.analyses@geves.fr

SEND YOUR ORDER VIA POST

- Send the sample to:

Detection Unit

BioGEVES
3 rue Henri Becquerel - CS 90024
49071 Beaucouzé Cedex
FRANCE

Genotyping/Biochemistry Unit

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

Variety testing at the SEV

REQUEST A DENOMINATION TEST

christelle.godin@geves.fr

REQUEST A FIELD TEST
DUS (Distinction Uniformity Stability)

celine.delarue@geves.fr

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

Your contacts at GEVES

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

Sector support
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(field trials)

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(Denomination tests)

Supply of samples to the SNES

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

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

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

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

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

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

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

The analyses are not performed on GMO samples.

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

PHYSICAL AND PHYSIOLOGICAL QUALITY

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

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

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

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

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

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

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

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

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

Supply of samples to the SNES

SEED HEALTH

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

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

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

Mycology:

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

- Without superficial disinfection for most species. If the presence of saprophytes is to 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
Fusarium roseum	*Roseum*	*F. avenaceum*
	Discolor	*F. culmorum, F. graminearum (Gibberella zeae), F. sambucinum, F. crookwellense*
	Arthrosporiella	*F. incarnatum (Fusarium semitectum)*
Fusarium sp.	*Sporotrichiella*	*F. poae, F. tricinctum (Gibberella tricincta), F. sporotrichioides, F. langsethiae*
	Gibbosum	*F. equiseti (Gibberella intricans), F. acuminatum (Gibberella acuminata)*
Fusarium moniliforme	*Liseola ou complexe G. fujikuroi*	*Gibberella fujikuroi (F. verticillioides, F. subglutinans), F. proliferatum*
Fusarium oxysporum	*F. elegans*	*F. oxysporum*
Fusarium solani	*Martiella - Ventricosum*	*F. solani*

Order an analysis

To SNES

For GEVES or COFRAC certificate [1]

		Price
By paper order form		
Handling of the request per submitted sample and issuing of a definitive GEVES or COFRAC certificate, in French or English.		9.70
By internet on DSN website		
Handling of the request per submitted sample and issuing of a definitive GEVES or COFRAC certificate, in French or English.		7.40
Specific handling		
Handling of the request per submitted sample sent in several packaging or weighing more than 2 kg requiring the preparation of a working sample, and issuing of a definitive SNES or COFRAC certificate, in French or English.		41.20
Supplementary certificates, specific presentation of results, priority		
Duplicate certificate for adding manual singature and buffer, in French or English.	NEW	3.10
Summary table of results, or specific presentation of results.		31.50
Raw results on .csv file (request must be entered online on DSN website).		0.00
Priority processing, per sample.		18.90

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

For an international certificate

	Price
By paper order form	
Handling of each submitted sample and issuing of an Orange or Blue International Certicate, in French or English, with priority being given to the related analyses. (EC-01 + SCLI-URBI + BU-ABIODE/BU-ABIBDE)	39.00
Supplementary certificates and request for changes	
Provisional international certificate, in French or English.	10.40
Duplicate international certificate, in French or English.	10.40
Adding additional certificates or modification of information on an international certificate (after checking the conformity with ISTA rules).	34.00

To BioGEVES

Handling and results

	Price
Handling	
Handling of the sample for treated seeds.	57.00
Results	
Duplicates analysis certificate except photography.	2.80
New edition of result certificate.	28.10
Specific presentation of results - Contact BioGeves.	/

SEED QUALITY

Physiological quality

			Size	Duration	Price
Complementary determinations in addition to the germination test					
Detailed description of seedlings and seeds on 400 seeds.	**GE-FG-DET**		1 250	/	**41.60**
Detailed description of seedlings and seeds on 200 seeds.	**GE-FG-DET2**		500	/	**20.80**
Percentage of a particular type of seedling.	**GE-FG-PCPL**		/	/	**23.10**
Provision of the result of repetitions.	**GE-FG-REP**		/	/	**13.40**
Additional testing time required					
Additional duration of 7 days for a germination test on 400 seeds.	**GE-FG-7S4**		1 250	/	**16.20**
Additional duration of 14 days for a germination test on 400 seeds.	**GE-FG-14S4**		500	/	**32.60**
Additional duration of 7 days for a germination test on 200 seeds.	**GE-FG-7S2**		500	/	**8.20**
Additional duration of 14 days for a germination test on 200 seeds.	**GE-FG-14S2**		500	/	**16.30**
Verification of species					
Verification of species after germination test.	**GE-ENR**		/	/	**9.40**
Verification of species on pelleted seeds, when only a purity test is resquested.	**GE-VERIF**	NEW	/	/	**24.00**
Tetrazolium viability test (excluding ornamental and fruit species) - For results within a week, reception of seeds on Tuesday at the latest.					
Tetrazolium test on 400 seeds.	**GE-TZ-1**		500	/	**174.00**
Tetrazolium test on 200 seeds.	**GE-TZ-2**		300	/	**116.00**
Tetrazolium test on 100 seeds.	**GE-TZ-3**		200	/	**81.00**
Energy					
Germination energy (intermediate counting; germination capacity supplement). The date of counting for the energy varies according to the species.	**GE-EG**		500	/	**19.90**
Vigour tests					
Cold-test on 400 seeds.	**GE-CO**		1 250	/	**69.00**
Cold-test on 200 seeds.	**GE-CO2**		500	/	**44.30**
Accelerated ageing of 200 seeds including germination capacity.	**GE-VIEI-2**		500	/	**90.00**
Controlled deterioration of 200 seeds including germination capacity.	**GE-DET-1**		500	/	**90.00**
Conductivity test on 200 seeds on ISTA species. *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).*	**GE-CON-GLO**		500	/	**57.00**
Additional cost for a conductivity test on a treated seed sample.	**GE-CON-SUP**		/	/	**5.40**
Treatment of seeds					
Treatment of seeds to be performed by SNES. Seeds do not undergo fungicide treatment before the germination test unless specifically requested (except for Beet).	**GE-TRAIT**		/	/	**23.10**
Substrate checks					
Determination of the water holding capacity of a substrate including moisture content.	**GE-SUB-1**		See p.7	/	**92.00**
Determination of the pH of a substrate.	**GE-SUB-2**		See p.7	/	**59.00**
Determination of the conductivity of a substrate.	**GE-SUB-3**		See p.7	/	**59.00**
Assessment of the innocuity of a substrate (determination of the % of seedlings intoxicated by the substrate, on 2 sensitive species).	**GE-SUB-4**		See p.7	/	**134.00**
Viability determination of seeds in a soil or a substrate.	**GE-SUB-5**				Contact SNES
Automated germination kinetics by image analysis					
Germination kinetics by image analysis (average rate of germination, kinetic curve).	**GE-CI**				Contact SNES
Supply of detailed data on imbibition and early elongation of the root.	**GE-CI-4**				Contact SNES
Supply of seeds images during germination.	**GE-CI-5**				Contact SNES

Seed health - Prior operations

		Size	Duration	Price
Thousand Seed Weight (TSW), if not indicated on the request for bacteriology, mycology and virology tests.	**PA-MMS**	/	/	**33.00**

[40] Quarantine parasite

Bacteriology - Uncoated seeds only

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

Mycology - See p.8 "Seed health"

		Size	Duration	Price
***Fusarium* spp.**				
Identification of *Fusarium* species in addition to detection test.	**PA-ID-FUS**	/	19 days	**265.00**
Verticillium dahliae				
Agar method.	**PA-ES-VERT**	400	19 days	**106.00**
Supplement for spore counting, washing methods				
Counting by classes (0;1-10;11-100;>100).	**PA-MY-DCLA**	/	/	**64.00**
Counting by unit.	**PA-MY-DEN**	/	/	**105.00**

Nematology

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

Other tests

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

EVALUATION OF VARIETIES

Determination of the identity and the varietal purity

		Size	Duration	Price
Standard protocol.	**SEV-CV**	/	/	**345.00**
Specific study.	**SEV-CV1**			Contact SEV

Genotyping by molecular biology

		Size	Duration	Price
Varietal identity control - SSR.	**BI-G-BM-SSR-CID-1**			Contact BioGEVES
Varietal comparison - SSR.	**BI-G-BM-SSR-COMP**			Contact BioGEVES

[40] Quarantine parasite

All Species

Genotyping by molecular biology

		Size	Duration	Price
Genetic purity analysis - SSR - 180 seeds.	**BI-G-BM-SSR-PU-180**			Contact BioGEVES
Genetic purity analysis - SSR - 8 x 10 seeds.	**BI-G-BM-SSR-PUR-10**			Contact BioGEVES
Seed mixture detection.	**BI-G-BM-SSR-PUR-40**			Contact BioGEVES
Varietal purity analysis - SSR - 90 seeds.	**BI-G-BM-SSR-PUR-90**			Contact BioGEVES
Varietal description - SSR.	**BI-G-BM-SSR-DVAR**			Contact BioGEVES
DNA extraction.	**BI-G-BM-EXT**			Contact BioGEVES
Varietal identity control - SNP.	**BI-G-BM-SNP-CID**			Contact BioGEVES
Hybrid Conformity - SNP.	**BI-G-BM-SNP-CONF**			Contact BioGEVES
Varietal comparison - SNP.	**BI-G-BM-SNP-COMP**			Contact BioGEVES
Genetic purity analysis - SNP.	**BI-G-BM-SNP-PUR**			Contact BioGEVES
Varietal description - SNP.	**BI-G-BM-SNP-DVAR**			Contact BioGEVES
Standardization of DNA concentration & distribution in plate.	**BI-G-CUST-GEN-3**			Contact BioGEVES
Analysis of genetic diversity.	**BI-G-CUST-GEN-2**			Contact BioGEVES
Migration run - Capillary sequencer - plate.	**BI-G-BM-RUN**			Contact BioGEVES
DNA assay.	**BI-G-BM-DOS**			Contact BioGEVES
Development of genotyping method.	**BI-G-METH**			Contact BioGEVES
Customised genotyping.	**BI-G-CUST**			Contact BioGEVES

Technological quality: biochemical tests

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

Other tests

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

Annual subscription to the variety denomination class test

		Price
All species - 10 tests.	**SEV-DENOS-10**	**215.00**
All species - 20 tests.	**SEV-DENOS-20**	**405.00**
All species - 50 tests.	**SEV-DENOS-50**	**950.00**
All species - 100 tests.	**SEV-DENOS-100**	**1830.00**
All species - 200 tests.	**SEV-DENOS-200**	**3580.00**

PUBLICATIONS (Contact SNES)

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

Purity and determination of other seeds by number: methodology.	**AP-M-1**

[40] Quarantine parasite

Identification data sheet of seeds and other impurities	
Echinochloa crus-galli, Echinochloa colona, Panicum capillare, Panicum maximum, Setaria pumila, Setaria veridis.	**AP-A-01**
Avena fatua-Avena sativa.	**AP-A-02**
Germination analysis method sheet	
Germination method of different species.	**GE-M-ESP**
Identification data sheet of seeds and other impurities	
Polygonaceae (*Persicaria maculosa*, *Persicaria lapathifolia*, *Fallopia convolvulus*, *Polygonum aviculare*, *Rumex* sp., *Rumex acetosella, Rumex maritimus*).	**AP-A-03**
Chenopodium sp., *Atriplex* sp., *Amaranthus* sp., *Reseda* sp., *Myosotis* sp.	**AP-A-04**
Asteraceae (*Anthemis arvensis*, *Glebionis segetum*, *Chicorium* sp., *Tripleurospermum inodorum*, *Helminthotheca echioïdes*, *Lapsana communis*, *Lactuca sativa*, *Sonchus* spp., *Cirsium arvense*, *Cirsium vulgare*, *Centaurea cyanus*).	**AP-A-06**
Cuscuta spp.	**AP-P-1**
Claviceps purpurea - Sclerotinia sclerotiorum.	**AP-P-2**
Self-control kit	
On request, components are sent separately accompanied with an instructional material. Contact SNES.	**KIT-AUTO**
I.D.Seed® On-line picture library, an aid to the identification of seeds - In French	
I.D.Seed® - Complete collection. Resgistration on http://mediatheque.geves.fr	**IDSEED-1**
Identification data sheet of fungal pathogens	
Altenaria linariae, A. alternata, A. brassicae, A. brassicicola, A. cucumerina, A. dauci, A. japonica, A. linicola, A. padwickii, A. petroselini, Alternariaster helianthi, Ascochyta medicaginicola, Bipolaris oryzae, Botryotinia squamosa, Botrytis cinerea, Ciborinia allii, Colletotrichum graminicola, C. truncatum, Complexe Phomopsis, Didymella pisi, Exserohilum turcicum, Itersonilia perplexans, Phomopsis helianthi, Sarocladium strictum, Sclerotinia sclerotiorum.	**PA-T-PATH**
Identification data sheet of nematodes	
Ditylenchus dipsaci, *D. destructor*, *Aphelenchoides besseyi*, *A. fragariae.*	**PA-T-NEM**
Identification data sheet of fungal saprophytes	
Sheet containing the main fungal saprophytes present in analysis on media.	**PA-T-SAPR**

[40] Quarantine parasite

Beets - Chicorys - Potatoe

SEED QUALITY

Physical quality

		Size	Duration	Price
Calibration - Provide seeds in watertight bag				
ISTA method (Denker device): inferior or equal to 6 grills. **Provide a 250g watertight sample for naked seeds or 25,000 coated seeds.**	**MN-DK-CAL1**	/	/	**41.60**
ISTA method (Denker device): superior or equal to 6 grills. **Provide a 250g watertight sample for naked seeds or 25,000 coated seeds.**	**MN-DK-CAL2**	/	/	**54.00**
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	**MMS-01**	/	/	**33.00**
Purity analysis test				
Purity - **Beets, Chicory**.	**PU-IS-18**	ISTA weight	/	**33.20**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**	/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**	/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**		Contact SNES	
Counting of all other seeds				
Full counting - **Beets, Chicory.**	**SP-IS-17**	ISTA weight	/	**138.00**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**	/	/	**13.40**
Limited counting of all other seeds				
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**	ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**	ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**		Contact SNES	
Searching of *Orobanche* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO**	ISTA weight	/	**75.00**
Searching of *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-STRIGA**	ISTA weight	/	**75.00**
Searching of *Orobanche* sp. and *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO-STR**	ISTA weight	/	**110.00**
Tests on coated seeds				
Purity on coated seeds.	**PU-IS-21**	2 500	/	**34.30**
Pelleting material removal and full counting on 2 500 coated seeds. **Only on UNTREATED seeds.**	**SP-ENR2500**	2 500	/	**102.00**
Pelleting material removal and full counting on 7 500 coated seeds. **Only on UNTREATED seeds.**	**SP-ENR-TOT**	7 500	/	**309.00**
Pelleting material removal and limited counting of other seeds from 1 to 3 botanical species, on 7 500 coated seeds. **Only on UNTREATED seeds.**	**SP-ENR-LIM**	7 500	/	**242.00**
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	**TE-SN-01**	ISTA weight	/	**20.70**
Identification of individual seeds				
Visual identification by species.	**ID-IS-01**	/	/	**34.60**

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Beets (after washing and treatment).	**GE-FG-03-4**	1 250	/	**72.00**
Beets (pelleted seeds).	**GE-FG-034E**	1 250	/	**55.00**
Chicorys.	**GE-FG-18-4**	1 250	/	**65.00**
Germination test on 200 seeds				
Beets (after washing and treatment).	**GE-FG-03-2**	500	/	**56.00**
Beets (pelleted seeds).	**GE-FG-032E**	500	/	**38.60**
Chicorys.	**GE-FG-18-2**	500	/	**52.00**
Germination test on 100 seeds				
Beets (after washing and treatment).	**GE-FG-03-1**	500	/	**36.00**
Beets (pelleted seeds).	**GE-FG-031E**	500	/	**27.70**

[40] Quarantine parasite

Beets - Chicorys - Potatoe

Physiological quality

		Size	Duration	Price
Germination test on 100 seeds				
Chicorys.	**GE-FG-18-1**	500	/	**31.30**
Cold test germination on 400 seeds				
Beets (after washing and treatment).	**GE-EGFG-B4**	1 250	/	**104.00**
Chicorys.	**GE-EGFG-4**	1 250	/	**92.00**
Cold test germination on 200 seeds				
Beets (after washing and treatment).	**GE-EGFG-B2**	500	/	**63.00**
Chicorys.	**GE-EGFG-2**	500	/	**54.00**
Verification of species				
Verification of species after germination test.	**GE-ENR**	/	/	**9.40**
Additional determinations in addition to the germination test on 400 seeds				
Percentage of monogerm seed - **Monogerms seeds.**	**GE-FG-MONO**	/	/	**13.60**
Percentage of monogerm seed - **Multigerms seeds.**	**GE-FGMONO1**	/	/	**29.80**
Germination based on full seeds.	**GE-FG-AMAN**	/	/	**10.00**
Additional determinations in addition to the germination test on 200 seeds				
Percentage of monogerm seed - **Monogerms seeds.**	**GE-FGMON2**	/	/	**8.20**
Percentage of monogerm seed - **Multigerms seeds.**	**GE-FGMON21**	/	/	**17.70**

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Swiss chard				
Pseudomonas syringae* pv. *aptata				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-119**	30 000	30 days	**261.00**

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Beet				
Phoma betae (Neocamarosporium betae), Colletotrichum dematium, Fusarium oxysporum, Fusarium equiseti, *Fusarium* (other sections), *Verticilium* sp.				
Agar method.	**PA-ES-BET**	400	19 days	**106.00**
***Peronospora farinosa* (downy mildew)**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-BET**	500	15 days	**102.00**
***Cercospora beticola* (leaf spot)**				
Seed wash method. **UNTREATED seeds only.**	**PA-CE-BET**	500	15 days	**102.00**
***Uromyces betae* (rust)**				
Seed wash method. **UNTREATED seeds only.**	**PA-RO-BET**	500	15 days	**102.00**
***Ramularia beticola* (leaf spot)**				
Seed wash method. **UNTREATED seeds only.**	**PA-RAM-BET**	500	15 days	**102.00**
Chicory				
Alternaria cichorii, *Fusarium* (all sections), *Botrytis cinerea*				
Agar method.	**PA-ES-CHI**	400	19 days	**106.00**

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**

Virology - Uncoated seeds only

		Size	Duration	Price
Beet				
***Tomato black ring virus* (TBRV)**				
ELISA.	**PA-VI-37**	2 000	16 days	**205.00**

[40] Quarantine parasite

Beets - Chicorys - Potatoe

Virology - Uncoated seeds only

		Size	Duration	Price
Beet				
***Tobacco rattle virus* (TRV)**				
ELISA.	**PA-VI-82**	/	/	**258.00**

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Beet				
Heterodera schachtii				
GEVES protocol.	**PA-R-BET**	75	/	**1026.00**
Aphanomyces cochlioides				
Official protocol.	**PA-R-BET-1**			Contact SNES
Rhizoctonia solani				
Evaluation of agressivity of an isolate.	**PA-R-BET-2**			Contact SNES
Potato				
***Globodera pallida*[40]**				
Counting of eggs and larvae for resistant varieties. Directive 2007/33/CE.	**PA-R-POM-1**	8	/	**856.00**
Foot test (miniaturised test: 4 tubercules).	**PA-R-POM-5**			Contact SNES
***Globodera rostochiensis*[40]**				
Counting of eggs and larvae for resistant varieties. Directive 2007/33/CE.	**PA-R-POM-3**	8	/	**825.00**
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

Other tests

			Size	Duration	Price
Multiplex RT-qPCR for the identification of 4 viruses: BtMV, BYV, BChV, BMYV.	**BI-D-VIR-BET**	**NEW**			Contact BioGEVES

Field tests by SEV

		Price
DUS testing - **Sugar beet.**	**SEV-DHS-BETS**	**1090.00**
DUS testing - **Forage beet**.	**SEV-DHS-BETF**	**1090.00**
DUS testing - **Chicory**.	**SEV-DHS-CHI**	**1090.00**
Resistance test for leaf blight and tuber blight for **Potato**. Contact aurelie.mailliard@geves.fr	**SEV-PDT-MIL**	**1460.00**

PUBLICATIONS (Contact SNES)

Germination analysis technical sheet	
Evaluation of **Beet** seedlings.	**GE-T-BET**
Technical sheet for analysis of specific purity and counting of all other seeds	
Beta vulgaris.	**AP-C-9**
Identification data sheet of seeds and other impurities	
Asteraceae (*Anthemis arvensis*, *Glebionis segetum*, *Chicorium* sp., *Tripleurospermum inodorum*, *Helminthotheca echioïdes*, *Lapsana communis*, *Lactuca sativa*, *Sonchus* spp., *Cirsium arvense*, *Cirsium vulgare*, *Centaurea cyanus*).	**AP-A-06**

[40] Quarantine parasite

Collection of seeds

Weed's identification for ***Beta vulgaris*** analysis. **APCS-BET-V**

[40] Quarantine parasite

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	**MMS-01**	/	/	**33.00**
Purity analysis test				
Purity - **Field bean, Faba bean, Lupin, Pea.**	**PU-IS-02**	ISTA weight	/	**25.80**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**	/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**	/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**			Contact SNES
Counting of all other seeds				
Full counting - **Field bean, Faba bean, Lupin, Pea**.	**SP-IS-02**	ISTA weight	/	**25.80**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**	/	/	**13.40**
Limited counting of all other seeds				
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**	ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**	ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**			Contact SNES
Searching of *Avena fatua* - **Pea.**	**SP-AF-3KG2**	3 kg	/	**67.00**
Searching of *Orobanche* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO**	ISTA weight	/	**75.00**
Searching of *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-STRIGA**	ISTA weight	/	**75.00**
Searching of *Orobanche* sp. and *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO-STR**	ISTA weight	/	**110.00**
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	**TE-SN-01**	ISTA weight	/	**20.70**
Supplement for moisture content test requiring pre-drying.	**TE-SN-03**	/	/	**13.40**
Determination of bitterness				
Bitter on **Lupin**.	**AMER-LUP1**	400	/	**67.00**
Identification of individual seeds				
Visual identification by species.	**ID-IS-01**	/	/	**34.60**

Physiological quality

		Size	Duration	Price
Germination test on 200 seeds				
Faba bean, Lupin, Pea, Soybean.	**GE-FG-02-2**	500	/	**45.70**
Germination test on 400 seeds				
Faba bean, Lupin, Pea, Soybean.	**GE-FG-02-4**	1 250	/	**55.00**
Vigour tests				
Conductivity test on 200 seeds on ISTA species. *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).*	**GE-CON-GLO**	500	/	**57.00**
Additional cost for a conductivity test on a treated seed sample.	**GE-CON-SUP**	/	/	**5.40**
Accelerated ageing of 200 seeds including germination capacity.	**GE-VIEI-2**	500	/	**90.00**

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Pea - Detection of 1 pathogen				
***Pseudomonas syringae* pv. *pisi* (Psp)**				
Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	**PA-BA-21**	5 000	26 days	**196.00**

[40] Quarantine parasite

Protein crops

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Pea - Detection of 1 pathogen				
***Pseudomonas syringae* pv. *pisi* (Psp)**				
Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	**PA-BA-70**	15 000	26 days	**292.00**
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-029).	**PA-BA-21-1**	5 000	32 days	**240.00**
***Pseudomonas syringae* pv. *syringae* (Pss)**				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	**PA-BA-22**	5 000	32 days	**215.00**
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-84**	15 000	32 days	**292.00**
Pea - Detection of 2 pathogens				
Psp + Pss				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	**PA-BA-22-2**	5 000	36 days	**249.00**
	PA-BA-85	15 000	36 days	**378.00**
Pea - Supplement fee pathogenicity test				
Pseudomonas syringae* pv. *pisi				
Confirmation by pathogenicity test PCR positive isolates.	**PA-PP-PSP**	/	9 days	**78.00**
Soybean				
Pseudomonas savastanoi* pv. *glycinea				
Agar method + pathogenicity test in case of suspect colonies (**COFRAC** - Anses BHs/99/04).	**PA-BA-27**	5 000	31 days	**215.00**

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Faba bean, Field bean				
Didymella fabae (Ascochyta fabae), Botrytis cinerea, Botrytis fabae, *Fusarium* (all sections)				
Agar method.	**PA-ES-FEV**	400	19 days	**106.00**
Lupin				
Colletotrichum lupini, *Botrytis cinerea, Fusarium* (other sections), *Phomopsis* sp.				
Agar method.	**PA-ES-LUP**	400	19 days	**106.00**
Pea				
Didymella pisi (Ascochyta pisi), Didymella pinodes (Mycosphaerella pinodes), Didymella pinodella (Phoma pinodella), *Stemphylium botryosum, Fusarium* (other sections)*, Botrytis* sp.*, Sclerotinia* sp.*, Phoma* sp.				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-POID**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-POI**	400	19 days	**106.00**
Didymella pisi (Ascochyta pisi)				
Agar method (ISTA 7-005).	**PA-ANT-POI**	400	19 days	**110.00**
***Peronospora viciae (Peronospora pisi)* (downy mildew)**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-POI**	500	15 days	**102.00**
Chickpea				
Ascochyta rabiei (Phoma rabiei), Botrytis cinerea, Fusarium oxysporum*, Fusarium solani, Fusarium* (other sections)				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-POCD**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-POC**	400	19 days	**106.00**
Soybean				
Phomopsis complex. Possibility of detection out of ISTA scope on request of *Fusarium* (all sections), *Stemphylium botryosum, Colletotrichum dematium, Botrytis* sp., *Phoma* sp.				
Agar method (ISTA 7-016).	**PA-PHO-SOJ**	400	19 days	**113.00**

Nematology

		Size	Duration	Price
Faba bean				
Ditylenchus dipsaci* and/or *Ditylenchus gigas				
Filtration (**COFRAC** - 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-FEV**	300 g	16 days	**76.00**
Detection on plants. Filtration (Anses MOA013 parts A and B).	**PA-NE-PLAF**	/	16 days	**85.00**

[40] Quarantine parasite

Protein crops

Nematology

		Size	Duration	Price
Pea				
Ditylenchus dipsaci				
Filtration (**COFRAC -** 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**	200 g	16 days	**76.00**

Virology - Uncoated seeds only

		Size	Duration	Price
Pea				
Tomato black ring virus **(TBRV)**				
ELISA.	**PA-VI-37**	2 000	16 days	**205.00**
Pea early browning virus **(PEBV)**				
ELISA (ISTA 7-024).	**PA-VI-31**	2 000	16 days	**205.00**
Pea enation mosaic virus **(PEMV)**				
ELISA.	**PA-VI-57**	2 000	16 days	**249.00**
Pea seed borne mosaic virus **(PSbMV)**				
ELISA (ISTA 7-024).	**PA-VI-11**	2 000	16 days	**173.00**
Bean yellow mosaic virus **(BYMV)**				
ELISA.	**PA-VI-60**	/	/	**271.00**
Bean leaf roll virus **(BLRV)**				
ELISA.	**PA-VI-67**	/	/	**247.00**
Southern bean mosaic virus **(SBMV)**				
ELISA.	**PA-VI-88**	/	/	**247.00**
Broad bean true mosaic virus **(BBTMV)**				
ELISA.	**PA-VI-50**	/	/	**247.00**
Soybean				
Soybean mosaic virus **(SMV)**				
ELISA.	**PA-VI-13**	/	/	**218.00**

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Pea				
Ascochyta pisi **race C**				
Official protocol.	**PA-R-POI-1**	30	/	**102.00**
Fusarium oxysporum **f. sp. *pisi* race 1**				
Official protocol.	**PA-R-POI-2**	30	/	**114.00**
BYMV (*Bean yellow mosaic virus*)				
Official protocol.	**PA-R-POI-3**	30	/	**106.00**
PEMV (*Pea enation mosaic virus*)				
Official protocol.	**PA-R-POI-4**	30	/	**121.00**
Erysiphe pisi				
Official protocol.	**PA-R-POI-5**	30	/	**170.00**

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

Genotyping by protein profiling

		Size	Duration	Price
Soybean				
Varietal comparison by isoenzyme electrophoresis.	**BI-G-EL-COMP-S**			Contact BioGEVES
Purity control by iso-enzymatic electrophoresis - 100 seeds.	**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

[40] Quarantine parasite

Protein crops

Genotyping by molecular biology

		Size	Duration	Price
Pea				
Varietal purity analysis - SSR - 90 seeds.	**BI-G-BM-SSR-PUR-90**			Contact BioGEVES
Varietal identity control - SSR.	**BI-G-BM-SSR-CID-1**			Contact BioGEVES
Soybean				
Varietal purity analysis - SSR - 90 seeds.	**BI-G-BM-SSR-PUR-90**			Contact BioGEVES
Varietal identity control - SSR.	**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 quatification 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 tests by SEV

		Price
DUS testing - **Field bean, Lupin**.	**SEV-DHS-FEVLUP**	**1355.00**
DUS testing - **Lentil**.	**SEV-DHS-LEN**	**1355.00**
DUS testing - **Spring peas**.	**SEV-DHS-POIP**	**1355.00**
DUS testing - **Winter peas**.	**SEV-DHS-POIH**	**1300.00**
DUS testing - **Chickpea**.	**SEV-DHS-POIC**	**1355.00**
DUS testing - **Soybean.**	**SEV-DHS-SOJ**	**1235.00**

PUBLICATIONS (Contact SNES)

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

[40] Quarantine parasite

SEED QUALITY

Physical quality

			Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)					
Thousand-seed weight on pure seeds.	**MMS-01**		/	/	**33.00**
Purity analysis test					
Purity - **Oat, Wheat, Spelt, Barley, Rice, Buckwheat, Rye, Triticale.**	**PU-IS-01**		ISTA weight	/	**63.00**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**		/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**		/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**				Contact SNES
Counting of all other seeds					
Full counting - **Oat, Wheat, Spelt, Barley, Rice, Buckwheat, Rye, Triticale.**	**SP-IS-01**		ISTA weight	/	**139.00**
Full counting - **Soft wheat.**	**SP-CER-R1**		500 g	/	**116.00**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**		/	/	**13.40**
Limited counting of all other seeds					
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**		ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**		ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**				Contact SNES
Searching of *Avena fatua* - **Wheat, Spelt, Barley, Rice, Rye, Triticale.**	**SP-AF-3KG1**		3 kg	/	**195.00**
Searching of *Avena fatua* - **Oat.**	**SP-AF-3KG5**		3 kg	/	**352.00**
Searching of *Orobanche* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO**		ISTA weight	/	**75.00**
Searching of *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-STRIGA**		ISTA weight	/	**75.00**
Searching of *Orobanche* sp. and *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO-STR**		ISTA weight	/	**110.00**
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted					
Oven method.	**TE-SN-01**		ISTA weight	/	**20.70**
Supplement for moisture content test requiring pre-drying.	**TE-SN-03**		/	/	**13.40**
Determination of bitterness					
Bitter on **Quinoa**.	**AMER-QUI**		400	/	**67.00**
Identification of individual seeds					
Visual identification by species.	**ID-IS-01**		/	/	**34.60**

Physiological quality

			Size	Duration	Price
Germination test on 400 seeds					
Oat, Wheat, Spelt, Barley, Rice, Buckwheat, Rye, Triticale.	**GE-FG-01-4**		1 250	/	**51.00**
Germination test on 200 seeds					
Oat, Wheat, Spelt, Barley, Rice, Buckwheat, Rye, Triticale.	**GE-FG-01-2**		500	/	**41.80**
Vigour test					
Cold Test on 400 seeds.	**GE-CO-CE-4**		1 250	/	**69.00**
Cold Test on 200 seeds.	**GE-CO-CE-2**		500	/	**44.30**
Accelerated ageing of 200 seeds including germination capacity.	**GE-VIEI-2**		500	/	**90.00**
Dormancy evaluation					
Dormancy index for cereal varieties.	**GE-IND-DOR**	NEW	1 000	21 days	**54.00**

[40] Quarantine parasite

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Oats				
***Ustilago avenae* (loose smut) and *Ustilago hordei* (smut)** Seed wash method. **UNTREATED seeds only.**	**PA-CH-AV**	500	15 days	**102.00**
***Pyrenophora chaetomioides (Helminthosporium avenae), Parastagonospora avenae (Septoria avenae), Microdochium* spp., *Fusarium* (all sections),** *Botrytis* sp. Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-AVD**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-AV**	400	19 days	**106.00**
Wheat, Barley, Rye, Triticale				
***Tilletia caries* (bunt)** Filtration and counting method + viability measure by staining method.	**PA-CA-VIAC**	50 g	15 days	**133.00**
Wheat				
***Tilletia caries*, *Tilletia laevis (Tilletia foetida)*, *Tilletia controversa* (bunt)** Filtration and counting method. **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). UNTREATED seeds only.**	**PA-CA-BLE**	50 g	15 days	**95.00**
***Tilletia indica*[40], *Tilletia caries*, *Tilletia laevis (Tilletia foetida)*, *Tilletia controversa* (bunt)** Filtration method (**COFRAC** - Anses MOA 017). **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). Analyses only carried out on seed lots from France. UNTREATED seeds only.**	**PA-CA-BLE2**	200 g	15 days	**141.00**
***Tilletia caries* (bunt)** Viability mesure of spores by detection by PCR on plantlets. **Evaluation of the efficiency of treatments. Evaluation of transmission from seed to plantlet.**	**PA-CA-VIA2**			Contact SNES
***Ustilago tritici* (loose smut)** Embryo extraction method. **UNTREATED seeds only.**	**PA-CH-BLE**	2 000	15 days	**110.00**
Microdochium* spp., *Fusarium* (section *Discolor*, section *Roseum*, section *Sporotrichiella* and other sections), *Parastagonospora nodorum (Septoria nodorum), Bipolaris sorokiniana (Helminthosporium sativum), *Helminthosporium* sp. Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-BLED**	400	19 days	**110.00**
Microdochium* spp., *Fusarium* (section *Discolor*, section *Roseum*, section *Sporotrichiella* and other sections), *Parastagonospora nodorum (Septoria nodorum), Bipolaris sorokiniana (Helminthosporium sativum), *Helminthosporium* sp. Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-BLE**	400	19 days	**106.00**
***Microdochium* spp.** Agar method (ISTA 7-022).	**PA-MIC-BLE**	400	19 days	**109.00**
Identification of species by PCR in addition to the analysis of detection.	**PA-MIC-BL2**	/	19 days	**226.00**
Parastagonospora nodorum (Septoria nodorum) Agar method (ISTA 7-014).	**PA-SE-BLE**	400	19 days	**109.00**
***Urocystis agropyri* (flag smut)** Seed wash method. **UNTREATED seeds only.**	**PA-BLE-URO**	500	15 days	**102.00**
Barley				
***Tilletia caries*, *Tilletia laevis (Tilletia* foetida), *Tilletia controversa* (bunt)** Filtration and counting method. **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). UNTREATED seeds only.**	**PA-CA-ORG**	50 g	15 days	**95.00**
***Tilletia indica*[40], *Tilletia caries*, *Tilletia laevis (Tilletia foetida)*, *Tilletia controversa* (bunt)** Filtration method (**COFRAC** - Anses MOA 017). **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). Analyses only carried out on seed lots from France. UNTREATED seeds only.**	**PA-CA-ORG2**	200 g	15 days	**141.00**
***Ustilago nuda* (loose smut)** Embryo extraction method (ISTA 7-013a).	**PA-CHI-ORG**	4 000	15 days	**155.00**
***Ustilago hordei* (smut)** Seed wash method. **UNTREATED seeds only.**	**PA-CH-ORLA**	500	15 days	**102.00**

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Cereal

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Barley				
***Microdochium* spp., *Fusarium* (section *Discolor*, section *Roseum*, section *Sporotrichiella* and other sections), *Parastagonospora nodorum* (*Septoria nodorum*), *Bipolaris sorokiniana* (*Helminthosporium sativum*),** *Helminthosporium* sp.				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-ORGD**	400	19 days	**110.00**
Seed wash method. **Untreated seeds only.**	**PA-ES-ORG**	400	19 days	**106.00**
Ramularia collo-cygni				
Seed wash method. **UNTREATED seeds only.**	**PA-RAM-ORG**	500	15 days	**102.00**
***Helminthosporium* spp. (*Pyrenophora* spp.)**				
Identification of species in addition to detection test.	**PA-ID-HEL**	/	/	**129.00**
Rice				
***Alternaria padwickii*, *Bipolaris oryzae* (*Helminthosporium oryzae*), *Pyricularia oryzae* (*Magnaporthe grisea*),** *Curvularia* sp., *Nigrospora oryzae*				
Agar method.	**PA-ES-RIZ**	400	19 days	**139.00**
Blotter method (ISTA 7-10, 7-011, 7-012).	**PA-ESI-RIZ**	400	19 days	**139.00**
Rye				
***Tilletia caries*, *Tilletia laevis* (*Tilletia* foetida), *Tilletia controversa* (bunt)**				
Filtration and counting method. **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). UNTREATED seeds only.**	**PA-CA-SEI**	50 g	15 days	**95.00**
***Tilletia indica*[40], *Tilletia caries*, *Tilletia laevis* (*Tilletia foetida*), *Tilletia controversa* (bunt)**				
Filtration method (**COFRAC** - Anses MOA 017). **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). Analyses only carried out on seed lots from France. UNTREATED seeds only.**	**PA-CA-SEI2**	200 g	15 days	**141.00**
***Ustilago hordei* (smut)**				
Seed wash method. **UNTREATEDseeds only.**	**PA-CH-SEI**	500	15 days	**102.00**
***Microdochium* spp., *Fusarium* (all sections), *Parastagonospora nodorum* (*Septoria nodorum*), *Bipolaris sorokiniana* (*Helminthosporium sativum*),** *Helminthosporium* sp.				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-SEID**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-SEI**	400	19 days	**106.00**
Triticale				
***Tilletia caries*, *Tilletia laevis* (*Tilletia foetida*), *Tilletia controversa* (bunt)**				
Filtration and counting method. **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). UNTREATED seeds only.**	**PA-CA-TRI**	50 g	15 days	**95.00**
***Tilletia indica*[40], *Tilletia caries*, *Tilletia laevis* (*Tilletia foetida*), *Tilletia controversa* (bunt)**				
Filtration method (**COFRAC** - Anses MOA 017). **Provide the specified quantity of seeds with indication the weight and the number of seeds on the bag (information is under the applicant's responsibility). Analyses only carried out on seed lots from France. UNTREATED seeds only.**	**PA-CA-TRI2**	200 g	15 days	**141.00**
***Ustilago tritici* (loose smut)**				
Embryo extraction method. **UNTREATED seeds only.**	**PA-CH-TRI**	2 000	15 days	**110.00**
***Microdochium* spp., *Fusarium* (all sections), *Parastagonospora nodorum* (*Septoria nodorum*), *Bipolaris sorokiniana* (*Helminthosporium sativum*),** *Helminthosporium* sp.				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-TRID**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-TRI**	400	19 days	**106.00**

Nematology

		Size	Duration	Price
Oats				
Ditylenchus dipsaci				
Filtration (**COFRAC** - 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	**76.00**
Rice				
Aphelenchoides besseyi				
Grinding + filtration (ISTA 7-025). **UNTREATED seeds only.**	**PA-NE-RIZ**	1 000	16 days	**83.00**

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Virogoly - Uncoated seeds only

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

EVALUATION OF VARIETIES

Varietal resistance

			Size	Duration	Price
Wheat					
WSSMV (*Wheat spindle streak mosaic virus*)					
Detection by ELISA.	**PA-R-BLE-1**		20 plants	/	**90.00**
SBCMV *(Soil-borne cereal mosaic virus)*					
Detection by ELISA.	**PA-R-BLE-2**		20 plants	/	**90.00**
Tilletia caries					
Method by grow -out and detection on plantlets by PCR.	**PA-R-BLE-3**				Contact SNES
Barley					
BaMMV (*Barley mild mosaic virus)*					
Detection by ELISA.	**PA-R-ORG1**		20 plants	/	**90.00**
BaYMV (*Barley yellow mosaic virus)*					
Detection by ELISA.	**PA-R-ORG2**		20 plants	/	**90.00**
WDV (*Wheat dwarf virus)*					
Detection by ELISA.	**PA-R-ORG3**	NEW			Contact SNES
Wheat, Barley					
BaMMV (*Barley mild mosaic virus)*					
Detection by PCR.	**BI-D-VIR-MOSA1**				Contact BioGEVES
BaYMV (*Barley yellow mosaic virus)*					
Detection by PCR.	**BI-D-VIR-MOSA2**				Contact BioGEVES
Pathotype identification dCAPS method (Y1/Y2).	**BI-D-V-DCAPS**				Contact BioGEVES
BYDV (*Barley yellow dwarf virus)*					
Detection and identification of BYDV-MAV, BYDV-PAV, BYDV-SGV and BYDV-RPV by PCR.	**BI-D-V-JNO**				Contact BioGEVES
WDV (*Wheat dwarf virus*)					
Detection by PCR.	**BI-D-VIR-MOSA5**				Contact BioGEVES
SBWMV (*Soil-borne wheat mosaic virus)*					
Detection by PCR.	**BI-D-VIR-MOSA4**				Contact BioGEVES
SBCMV *(Soil-borne cereal mosaic virus)*					
Detection by PCR.	**BI-D-VIR-MOSA3**				Contact BioGEVES
WSSMV (*Wheat spindle streak mosaic virus)*					
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 - SSR - 90 seeds.	**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 - SSR.	**BI-G-BM-SSR-CID-1**			Contact BioGEVES
Bread Wheat				
Varietal identification (french collection, organic, recommanded varieties for milling).	**BI-G-BM-SSR-CID-2**			Contact BioGEVES
Varietal identity control for milling.	**BI-G-BM-SSR-CID-3**			Contact BioGEVES

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Cereal

Genotyping by molecular biology

		Size	Duration	Price
Bread Wheat				
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	**54.00**
Barley					
Morphological control of **Barley** seeds (character of racilla and crease).	**SEV-AUT-GROR**		1 000	/	**44.50**

Field tests by SEV

		Price
DUS testing - **Winter oat.**	**SEV-DHS-AVH**	**1065.00**
DUS testing - **Spring oat**.	**SEV-DHS-AVP**	**1110.00**
DUS testing - **Winter wheat**.	**SEV-DHS-BTH**	**1430.00**
DUS testing - **Spring wheat.**	**SEV-DHS-BTP**	**1490.00**
DUS testing - **Winter barley**.	**SEV-DHS-ORH**	**1430.00**
DUS testing - **Spring barley**.	**SEV-DHS-ORP**	**1490.00**
DUS testing - **Durum wheat**.	**SEV-DHS-BD**	**1430.00**
DUS testing - **Triticale.**	**SEV-DHS-TRI**	**1430.00**

PUBLICATIONS (Contact SNES)

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

[40] Quarantine parasite

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	**MMS-01**	/	/	**33.00**
Preparation of pure seeds for germination test				
All forage grasses species.	**PU-PR-GRA**	ISTA weight	/	**31.90**
Other forage species.	**PU-PR-20**	/	/	**0.00**
Purity analysis test				
Purity - **Field bean, Faba bean, Lupin, Pea.**	**PU-IS-02**	ISTA weight	/	**25.80**
Purity on leguminous - **Bermuda grass, Fenugreek, Birds-foot trefoil, Alfalfa, Black Medick, Phacelia, Plantain, Sainfoin, Clover, Vetch.**	**PU-IS-FOU1**	ISTA weight	/	**47.90**
Purity on grasses - **Festulolium, Tall fescue, Sweet vernal grass, Tall oat grass, Bahia grass, Harding grass, Rye grass, Meadow foxtail.**	**PU-IS-FOU2**	ISTA weight	/	**74.00**
Purity on grasses - **Bent-grass, Yellow oatgrass, Brome, Tufted hair grass, Cocksfoot, Sheep fescue, Red fescue, Meadow fescue, Meadow grass.**	**PU-IS-FOU3**	ISTA weight	/	**85.00**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**	/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**	/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**		Contact SNES	
Counting of all other seeds				
Full counting - **Field bean, Faba bean, Lupin, Pea**.	**SP-IS-02**	ISTA weight	/	**25.80**
Full counting on leguminous - **Alfalfa, Black Medick, Phacelia, Narrow-leaf plantain, Clover.**	**SP-IS-LEG1**	ISTA weight	/	**148.00**
Full counting on leguminous - **Fenugreek, Birds-foot trefoil, Sainfoin, Vetch.**	**SP-IS-LEG2**	ISTA weight	/	**225.00**
Full counting on grasses - **Festulolium, Tall fescue, Sweet vernal grass, Tall oat grass, Bahia grass, Harding grass, Rye grass, Meadow foxtail.**	**SP-IS-GRA1**	ISTA weight	/	**315.00**
Full counting on grasses - **Bent-grass, Yellow oatgrass, Brome, Tufted hair grass, Cocksfoot, Sheep fescue, Red fescue, Meadow fescue, Meadow grass.**	**SP-IS-GRA2**	ISTA weight	/	**202.00**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**	/	/	**13.40**
Limited counting of all other seeds				
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**	ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**	ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**		Contact SNES	
Searching of *Cuscuta* spp. - **Trefoil, White clover, Hybrid clover, Micheli's clover, Strawberry clover, Arrowleaf clover.**	**SP-CU100-T**	< 100 g	/	**90.00**
	SP-CU250-T	150 to 300g	/	**259.00**
	SP-CU500-T	400 to 600g	/	**469.00**
Searching of *Cuscuta* spp. - **Alfalfa, Black medick, Red clover, Carnation clover, Egyptian clover, Persian clover.**	**SP-CU100-P**	< 100 g	/	**37.30**
	SP-CU250-P	150 to 300g	/	**91.00**
	SP-CU500-P	400 to 600g	/	**176.00**
Searching of *Avena fatua* - **Pea, Vetch.**	**SP-AF-3KG2**	3 kg	/	**67.00**
Searching by Veskof type - **Alfalfa, Clover.**	**SP-VE-02**	/	/	**177.00**
Searching by Veskof type - **Brome, Cocksfoot/ Orchard grass , Tall oat grass.**	**SP-VE-10**	/	/	**93.00**
Counting of all other seeds				
Searching by Veskof type - **Festulolium, Harding grass, Meadow foxtail, Rye grass, Tall fescue.**	**SP-VE-11**	/	/	**67.00**
Full counting of all other seeds				
Searching by Veskof type - **Other species.**	**SP-VE-AUTR**		Contact SNES	
Searching by dehydration standard - **Alfalfa.**	**SP-DESHY**	/	/	**84.00**
Searching of *Orobanche* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO**	ISTA weight	/	**75.00**
Searching of *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-STRIGA**	ISTA weight	/	**75.00**
Searching of *Orobanche* sp. and *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO-STR**	ISTA weight	/	**110.00**
Tests on coated seeds				
Purity on coated seeds.	**PU-IS-21**	2 500	/	**34.30**

[40] Quarantine parasite

Fodder plants

Physical quality

		Size	Duration	Price
Tests on coated seeds				
Pelleting material removal and full counting on 2 500 coated seeds. **Only on UNTREATED seeds.**	**SP-ENR2500**	2 500	/	**102.00**
Pelleting material removal and full counting on 7 500 coated seeds. **Only on UNTREATED seeds.**	**SP-ENR-TOT**	7 500	/	**309.00**
Pelleting material removal and limited counting of other seeds from 1 to 3 botanical species, on 7 500 coated seeds. **Only on UNTREATED seeds.**	**SP-ENR-LIM**	7 500	/	**242.00**
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	**TE-SN-01**	ISTA weight	/	**20.70**
Identification of individual seeds				
Visual identification by species.	**ID-IS-01**	/	/	**34.60**

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Festulolium, Fenugreek, Tall fescue, Timoty, Harding grass, Birdsfoot trefoil, Alfalfa, Black medick, Rye grass, Sainfoin, Clover, Meadow foxtail.	**GE-FG-06-4**	1 250	/	**66.00**
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	/	**77.00**
Fodder kale, Forage pea, Forage radish.	**GE-FG-18-4**	1 250	/	**65.00**
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	/	**45.80**
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	/	**51.00**
Fodder kale, Forage pea, Forage radish.	**GE-FG-18-2**	500	/	**52.00**
Fluorescence				
Fluorescence of **Rye grass** roots on 400 seedlings (germination and identification). Enables distinguishing *Lolium perenne* showing no fluorescence unlike *Lolium multiflorum* and *Lolium boucheanum* these exhibit fluorescent roots.	**FLUO-1**	/	/	**114.00**

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - Detection of 1 pathogen				
***Xanthomonas campestris* pv. *campestris* (Xcc)**				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies).	**PA-BA-04**	30 000	36 days	**220.00**
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies (ISTA 7-019b without counting of colonies).	**PA-BA-105**	30 000	36 days	**262.00**
Agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019a).	**PA-BA-03**	30 000	36 days	**232.00**
Disinfected seeds . Grinding + agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019b).	**PA-BA-05**	30 000	36 days	**276.00**
***Xanthomonas campestris* pv. *raphani (armoraciae)* (Xcr)**				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-29**	30 000	36 days	**211.00**
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies.	**PA-BA-30**	30 000	36 days	**262.00**
Brassicaceae (Cabbage, Cauliflower, Broccoli, Radish, Turnip) - Detection of 1 pathogen				
***Pseudomonas syringae* pv. *maculicola* (Psm)**				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-10**	30 000	36 days	**225.00**
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - Detection of 1 pathogen				
***Pseudomonas syringae* pv. *maculicola* (Psm)**				
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies.	**PA-BA-33**	30 000	36 days	**266.00**
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - Detection of 2 pathogens				
Xcc + Xcr				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies for Xcc and Xcr).	**PA-BA-06**	30 000	36 days	**266.00**

[40] Quarantine parasite

Fodder plants

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - Detection of 2 pathogens				
Xcc + Xcr				
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies (ISTA 7-019b without counting of colonies for Xcc).	**PA-BA-07**	30 000	36 days	**316.00**
Xcc + Psm				
Agar method + pathogenicity test in case of suspect colonies colonies (ISTA 7-019a without counting of colonies for Xcc).	**PA-BA-45**	30 000	36 days	**324.00**
Xcr + Psm				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-46**	30 000	36 days	**324.00**
Brassicaceae (Broccoli, Cabbage, Cauliflower, Turnip, Radish) - Detection of 3 pathogens				
Xcc + Xcr + Psm				
Agar method + pathogenicity test in case of suspect colonies colonies (ISTA 7-019a without counting of colonies for Xcc and Xcr).	**PA-BA-08**	30 000	36 days	**378.00**
Pea - Detection of 1 pathogen				
***Pseudomonas syringae* pv. *pisi* (Psp)**				
Agar method + pathogenicity test in case of suspect colonies (method derived from Anses BHs/99/03).	**PA-BA-21**	5 000	26 days	**196.00**
	PA-BA-70	15 000	26 days	**292.00**
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-029).	**PA-BA-21-1**	5 000	32 days	**240.00**
***Pseudomonas syringae* pv. *syringae* (Pss)**				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	**PA-BA-22**	5 000	32 days	**215.00**
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-84**	15 000	32 days	**292.00**
Pea - Detection of 2 pathogens				
Psp + Pss				
Agar method + pathogenicity test in case of suspect colonies (Anses BHs/99/03).	**PA-BA-22-2**	5 000	36 days	**249.00**
	PA-BA-85	15 000	36 days	**378.00**
Vetch				
Pseudomonas syringae* pv. *pisi				
Agar method + PCR in case of suspect colonies (method derived from Anses BHs/99/03).	**PA-BA-99**	5 000	33 days	**216.00**
Pea - Supplement fee pathogenicity test				
Pseudomonas syringae* pv. *pisi				
Confirmation by pathogenicity test PCR positive isolates.	**PA-PP-PSP**	/	9 days	**78.00**

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Brassicaceae (Cabbage, Rape, Turnip, Radish, Rocket)				
Leptosphaeria maculans* and/or *Plenodomus biglobosus (Phoma lingam), Alternaria brassicae, Alternaria brassicicola, Alternaria japonica, Sclerotinia sclerotiorum, *Botrytis cinerea, Phoma* sp.				
Agar method (derivated from ISTA method 7-004).	**PA-ES-CHO**	400	19 days	**106.00**
***Leptosphaeria maculans* and/or *Plenodomus biglobosus* (*Phoma lingam*)**				
Agar method (ISTA 7-004).	**PA-PH-CHO**	1 000	25 days	**262.00**
Albugo candida				
Seed wash method. **UNTREATED seeds only.**	**PA-ALB-CHO**	500	15 days	**102.00**
***Hyaloperonospora parasitica* (downy mildew)**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-CHO**	500	15 days	**102.00**
Grow-out method (viability testing).	**PA-MICHOGO**	400	42 days	**129.00**
Brome				
Ustilago bullata (Ustilago bromivora)* and *Ustilago striiformis				
Seed wash method. **UNTREATED seeds only.**	**PA-CH-BRO**	500	15 days	**102.00**
Cocksfoot/ Orchard Grass				
Epichloe mollis (Neotyphodium typhinum)				
Grow-out and serological method.	**PA-NT2-DAC**	100	40 days	**695.00**
Pyrenophora lolii (Helminthosporium siccans), Pyrenophora dictyoides (Helminthosporium dictyoides), Colletotrichum graminicola (Glomerella graminicola), *Fusarium* (all sections), *Botrytis* sp., *Helminthosporium* sp.				
Agar method.	**PA-ES-DAC**	400	19 days	**106.00**

[40] Quarantine parasite

Fodder plants

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Fescue				
Epichloe coenophiala (Neotyphodium coenophialum)				
Serological method (ISTA 7-015). **UNTREATED seeds only.**	**PA-NT2-FET**	100	16 days	**578.00**
Grow-out and serological method.	**PA-NT3-FET**	100	40 days	**695.00**
Pyrenophora lolii (Helminthosporium siccans), Pyrenophora dictyoides (Helminthosporium dictyoides), *Microdochium* spp.*, Fusarium* (all sections), *Botrytis* sp., *Helminthosporium* sp.				
Agar method.	**PA-ES-FET**	400	19 days	**106.00**
Alfalfa				
Ascochyta medicaginicola (Ascochyta imperfecta), Fusarium oxysporum, Fusarium avenaceum, *Verticillium* spp., *Stemphylium* sp., *Sclerotinia* sp., *Colletotrichum* sp., *Botrytis cinerea, Fusarium* (all sections)				
Agar method.	**PA-ES-LUZ**	400	19 days	**106.00**
Millet				
Ustilago* sp., *Sporisorium destruens (Sphacelotheca destruens)* or *Moesziomyces bullatus (Tolyposporium penicillariae)				
Seed wash method. **Please indicate the Latin name of millet. UNTREATED seeds only.**	**PA-CH-MIL**	500	15 days	**102.00**
Pea				
Didymella pisi (Ascochyta pisi), Didymella pinodes (Mycosphaerella pinodes), Didymella pinodella (Phoma pinodella), *Stemphylium botryosum, Fusarium* (other sections)*, Botrytis* sp.*, Sclerotinia* sp.*, Phoma* sp.				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-POID**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-POI**	400	19 days	**106.00**
***Peronospora viciae (Peronospora pisi)* (downy mildew)**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-POI**	500	15 days	**102.00**
Didymella pisi (Ascochyta pisi)				
Agar method (ISTA 7-005).	**PA-ANT-POI**	400	19 days	**110.00**
Radish				
***Hyaloperonospora parasitica (Peronospora parasitica)* (downy mildew)**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-RAD**	500	15 days	**102.00**
Grow-out method (viability testing).	**PA-MIRADGO**	400	42 days	**129.00**
Rye-grass				
Epichloe festuca (Neotyphodium lolii)				
Serological method (ISTA 7-015). **UNTREATED seeds only.**	**PA-NT2-RAY**	100	16 days	**578.00**
Grow-out and serological method (viability testing).	**PA-NT3-RAY**	100	40 days	**695.00**
Pyrenophora lolii (Helminthosporium siccans), Pyrenophora dictyoides (Helminthosporium dictyoides), *Microdochium* spp.*, Fusarium* (all sections), *Botrytis* sp., *Helminthosporium* sp.				
Agar method.	**PA-ES-RAY**	400	19 days	**106.00**
Clover				
Ascochyta medicaginicola (Ascochyta imperfecta), Fusarium oxysporum,Fusarium avenaceum, *Verticillium* spp., *Stemphylium* sp., *Sclerotinia* sp., *Colletotrichum* sp., *Botrytis cinerea, Fusarium* (all sections)				
Agar method.	**PA-ES-TRE**	400	19 days	**106.00**

Nematology

		Size	Duration	Price
Alfalfa				
Ditylenchus dipsaci				
Detection by Seed Extract PCR and/or morphobiometry (**COFRAC** - 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	**64.00**
Pea				
Ditylenchus dipsaci				
Filtration (**COFRAC -** 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**	200 g	16 days	**76.00**

[40] Quarantine parasite

Fodder plants

Nematology

		Size	Duration	Price
Rye-grass				
Ditylenchus dipsaci				
Filtration (**COFRAC** - 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	**76.00**
Clover				
Ditylenchus dipsaci				
Filtration (**COFRAC** - 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	**76.00**
Plants (leaves and stems)				
Ditylenchus dipsaci				
Filtration (Anses MOA013 parts A and B).	**PA-NE-PLAN**	/	16 days	**85.00**

Virology - Uncoated seeds only

		Size	Duration	Price
Alfalfa				
Alfalfa mosaic **(AMV)**				
ELISA.	**PA-VI-71**	2 000	16 days	**162.00**
Pea				
Tomato black ring virus **(TBRV)**				
ELISA.	**PA-VI-37**	2 000	16 days	**205.00**
Pea early browning virus **(PEBV)**				
ELISA (ISTA 7-024).	**PA-VI-31**	2 000	16 days	**205.00**
Pea enation mosaic virus **(PEMV)**				
ELISA.	**PA-VI-57**	2 000	16 days	**249.00**
Bean yellow mosaic virus **(BYMV)**				
ELISA.	**PA-VI-60**	/	/	**271.00**
Bean leaf roll virus **(BLRV)**				
ELISA.	**PA-VI-67**	/	/	**247.00**
Southern bean mosaic virus **(SBMV)**				
ELISA.	**PA-VI-88**	/	/	**247.00**
Broad bean true mosaic virus **(BBTMV)**				
ELISA.	**PA-VI-50**	/	/	**247.00**
Pea, Vetch				
Pea seed borne mosaic virus **(PSbMV)**				
ELISA (ISTA 7-024).	**PA-VI-11**	2 000	16 days	**173.00**

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Cabbage				
Fusarium oxysporum **f. sp.** ***conglutinans*** **race 1**				
Official protocol.	**PA-R-CHO**	45	/	**330.00**
Plasmodiophora brassicae				
GEVES protocol.	**PA-R-CHO-1**	45	/	**242.00**
Brassicaceae (Mustard, Forage radish)				
Heterodera schachtii				
Official protocol.	**PA-R-CRU**	60	/	**802.00**
Meloidogyne incognita				
Official protocol.	**PA-R-CRU1**	45	/	**183.00**
Meloidogyne hapla				
Official protocol.	**PA-R-CRU2**	45	/	**204.00**

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

[40] Quarantine parasite

Fodder plants

Varietal resistance

		Size	Duration	Price
Brassicaceae (Mustard, Forage radish)				
Meloidogyne javanica				
Official protocol.	**PA-R-CRU3**	45	/	**183.00**
Meloidogyne chitwoodi[40]				
Official protocol.	**PA-R-CRU4**	45	/	**169.00**
Meloidogyne fallax[40]				
Official protocol	**PA-R-CRU5**			Contact SNES
Festulolium, Fescue, Rye-grass, Italian Rye-grass				
Xanthomonas translucens* pv. *graminis				
Official protocol.	**PA-R-RAY**	162	/	**312.00**
Alfalfa				
Ditylenchus dipsaci				
Official protocol.	**PA-R-LUZ-1**	2 000	/	**680.00**
Verticillium albo-atrum				
Official protocol.	**PA-R-LUZ-2**	500	/	**536.00**
Colletotrichum trifolii				
Official protocol.	**PA-R-LUZ-3**	500	/	**246.00**
Identification of the race.	**PA-R-IDCOL**			Contact SNES
Sclerotinia trifoliorum				
GEVES protocol.	**PA-R-LUZ-4**	500	/	**402.00**
Fusarium oxysporum* f. sp. *medicaginis				
GEVES protocol.	**PA-R-LUZ-5**	500	/	**402.00**
Pea				
***Ascochyta pisi* race C**				
Official protocol.	**PA-R-POI-1**	30	/	**102.00**
***Fusarium oxysporum* f. sp. *pisi* race 1**				
Official protocol.	**PA-R-POI-2**	30	/	**114.00**
BYMV (*Bean yellow mosaic virus*)				
Official protocol.	**PA-R-POI-3**	30	/	**106.00**
PEMV (*Pea enation mosaic virus*)				
Official protocol.	**PA-R-POI-4**	30	/	**121.00**
Erysiphe pisi				
Official protocol.	**PA-R-POI-5**	30	/	**170.00**

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 - SSR.	**BI-G-BM-SSR-CID-1**			Contact BioGEVES
Varietal purity analysis - SSR - 90 seeds.	**BI-G-BM-SSR-PUR-90**			Contact BioGEVES

Field tests by SEV

		Price
DUS testing - **Cocksfoot, Tall fescue**.	**SEV-DHS-DACFET**	**1400.00**
DUS testing - **Brome.**	**SEV-DHS-BRO**	**1110.00**
DUS testing - **Festulolium.**	**SEV-DHS-FES**	**1110.00**
DUS testing - **Tall fescue**.	**SEV-DHS-FETG**	**1400.00**
DUS testing - **Field Pea**.	**SEV-DHS-POIF**	**1110.00**

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Field tests by SEV

		Price
DUS testing - **Sainfoin.**	**SEV-DHS-SAI**	**1110.00**
DUS testing - **Alfalfa.**	**SEV-DHS-LUZ**	**1500.00**
DUS testing - **Salzmann's restharrow, Fenugreek, Dwarf chickling vetch, Chickling vetch, Hybrid vetch, Narrow-leaved plantain, Field Pea, Berseem clover, Crimson clover, Balansa clover, Persian clover, Clover squarrosum, Arrow-leaf clover, Common Vetch, Hairy vetch, Hungarian vetch, Reddich turfted vetch.**	**SEV-DHS-AUTFOU**	**1110.00**
New assessment of the value in use of a variety of turf in the catalogue : over 3 years, price per year.	**SEV-RETEST-GAZ**	**2380.00**

PUBLICATIONS (Contact SNES)

Method sheet

Vigour testing - Conductivity - **Pea.**	**VIG-2-M**

Germination analysis technical sheet

Evaluation of **Cabbage** seedlings.	**GE-T-CHOU**
Evaluation of **Alfafa** seedlings.	**GE-T-LUZ**
Evaluation of **Pea** seedlings.	**GE-T-POI**
Evaluation of **Radish** seedlings.	**GE-T-RAD**

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

Gramineae (Lolium spp. *, Festuca arundinacea , Festuca* cf. *ovina rubra , Festuca pratensis, Dactylis glomerata).*	**AP-C-1**
Trifolium spp.	**AP-C-1B**
Brassica napus.	**AP-C-4**
Medicago sativa, Trifolium pratense.	**AP-C-7**
Pisum sativum, Vicia faba.	**AP-C-8**
Vicia sativa.	**AP-C-11**
Seed blower calibration for uniform blowing (*Dactylis glomerata, Poa pratensis, Poa trivialis).*	**AP-M-2**

Identification data sheet of seeds and other impurities

Polygonaceae (*Persicaria maculosa*, *Persicaria lapathifolia*, *Fallopia convolvulus*, *Polygonum aviculare*, *Rumex* sp., *Rumex acetosella, Rumex maritimus*).	**AP-A-03**
Chenopodium sp., *Atriplex* sp., *Amaranthus* sp., *Reseda* sp., *Myosotis* sp.	**AP-A-04**
Lathyrus spp. *(Lathyrus sylvestris, Lathyrus latifolius, Lathyrus hirsutus, Lathyrus tuberosus, Lathyrus odoratus, Lathyrus aphaca, Lathyrus pratensis, Lathyrus sativus, Lathyrus cicera).*	**AP-A-05**
Asteraceae (*Anthemis arvensis*, *Glebionis segetum*, *Chicorium* sp., *Tripleurospermum inodorum*, *Helminthotheca echioïdes*, *Lapsana communis*, *Lactuca sativa*, *Sonchus* spp., *Cirsium arvense*, *Cirsium vulgare*, *Centaurea cyanus*).	**AP-A-06**
Cuscuta spp.	**AP-P-1**
Claviceps purpurea - Sclerotinia sclerotiorum.	**AP-P-2**

Collection of seeds

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**

[40] Quarantine parasite

Seed mixture species

SEED QUALITY

Physical quality

		Size	Duration	Price
Purity analysis test and determination of the composition of a seed mixture of species				
Only on naked seeds				
Less than 4 components WITH declared composition[2].	**PU-MEL-01**	/	60 days	**513.00**
From 4 components WITH declared composition[2].	**PU-MEL-02**			Contact SNES
WITHOUT declared composition.	**PU-MEL-03**	/	60 days	**843.00**
Preparation of pure seed for germination testing				
Seed mixture (less than 4 components) WITH declared composition[2].	**PU-PR-19**	/	/	**212.00**
From 4 components WITH declared composition[2].	**PU-PR-22**			Contact SNES
WITHOUT declared composition.	**PU-PR-19-1**	/	/	**508.00**
Preparation of pure seeds in dragees on coated seed mixture.	**PU-PR-19-2**	/	/	**35.90**

[2] Provide the % of species in the seed mixture.

Physiological quality [3]

Germination test on 400 seeds	
Species mixture by component. **All the species of the seed mixture will be analyzed whatever is the proportion, except opposite request.**	**GE-FG-19-4**
Germination test on 200 seeds	
Species mixture by component. **All the species of the seed mixture will be analyzed whatever is the proportion, except opposite request.**	**GE-FG-19-2**

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

[40] Quarantine parasite

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	**MMS-01**	/	/	**33.00**
Purity analysis test				
Purity - **Hemp.**	**PU-IS-14**	ISTA weight	/	**45.60**
Purity - **Flax.**	**PU-IS-15**	ISTA weight	/	**33.70**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**	/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**	/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**			Contact SNES
Counting of all other seeds				
Full counting - **Hemp.**	**SP-IS-13**	ISTA weight	/	**79.00**
Full counting - **Flax.**	**SP-IS-14**	ISTA weight	/	**45.60**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**	/	/	**13.40**
Limited counting of all other seeds				
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**	ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**	ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**			Contact SNES
Searching of *Orobanche* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO**	ISTA weight	/	**75.00**
Searching of *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-STRIGA**	ISTA weight	/	**75.00**
Searching of *Orobanche* sp. and *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO-STR**	ISTA weight	/	**110.00**
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	**TE-SN-01**	ISTA weight	/	**20.70**
Identification of individual seeds				
Visual identification by species.	**ID-IS-01**	/	/	**34.60**

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Hemp, Flax.	**GE-FG-14-4**	1 250	/	**57.00**
Germination test on 200 seeds				
Hemp, Flax.	**GE-FG-14-2**	500	/	**42.80**

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Hemp				
Botrytis cinerea, *Sclerotinia sclerotiorum*				
Blotter method.	**PA-ES-CHA**	400	23 days	**139.00**
Flax				
Botrytis cinerea, Boeremia exigua (Phoma exigua), Colletotrichum linicola (Colletotrichum lini), Alternaria linicola, Fusarium **(all sections)**				
Agar method.	**PA-ES-LIN**	400	23 days	**106.00**
Alternaria linicola, Botrytis cinerea, Colletotrichum linicola (Colletotrichum lini)				
Agar method (ISTA 7-007).	**PA-BOT-LIN**	400	23 days	**106.00**

[40] Quarantine parasite

EVALUATION OF VARIETIES

Varietal resistance

		Size	Duration	Price
Hemp				
Phelipanche ramosa				
Official protocol.	**GE-TR-CHOR**	/	/	**335.00**

Genotyping by molecular biology

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

Technological quality: biochemicals tests

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

Field tests by SEV

		Price
DUS testing - **Flax, Linseed.**	**SEV-DHS-LIN**	**1235.00**
DUS testing - **Hemp.**	**SEV-DHS-CHA**	**1350.00**

PUBLICATIONS (Contact SNES)

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

[40] Quarantine parasite

SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	**MMS-01**	/	/	**33.00**
Purity analysis test				
Purity - **Corn, Sorghum.**	**PU-IS-02**	ISTA weight	/	**25.80**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**	/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**	/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**			Contact SNES
Counting of all other seeds				
Full counting - **Corn, Sorghum.**	**SP-IS-02**	ISTA weight	/	**25.80**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**	/	/	**13.40**
Limited counting of all other seeds				
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**	ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**	ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**			Contact SNES
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	**TE-SN-01**	ISTA weight	/	**20.70**
Supplement for moisture content test requiring pre-drying.	**TE-SN-03**	/	/	**13.40**
Identification of individual seeds				
Visual identification by species.	**ID-IS-01**	/	/	**34.60**

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Corn, Sorghum.	**GE-FG-01-4**	1 250	/	**51.00**
Germination test on 200 seeds				
Corn, Sorghum.	**GE-FG-01-2**	500	/	**41.80**
Vigour tests				
Cold-test on 400 seeds.	**GE-CO**	1 250	/	**69.00**
Cold-test on 200 seeds.	**GE-CO2**	500	/	**44.30**
Accelerated ageing of 200 seeds including germination capacity.	**GE-VIEI-2**	500	/	**90.00**
Radicle emergence test on 200 seeds (ISTA test) - **Corn.**	**GE-EM**	/	/	**77.00**
Corn root length evaluation after 7 days germination at 15°C (4 replicates of 20 seeds).	**GE-RAC**	/	/	**77.00**

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Corn				
***Bipolaris zeicola* (*Helminthosporium carbonum*), *Fusarium* (section *Liseola* and other sections),** *Cephalosporium* sp., *Cochliobolus heterostrophus (Helminthosporium maydis), Stenocarpella maydis (Diplodia maydis), Stenocarpella macrospora (Diplodia macrospora), Colletotrichum graminicola, Nigrospora* sp.				
Agar method with superficial disinfection. **UNTREATED seeds only.**	**PA-ES-MAID**	400	19 days	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-ES-MAI**	400	19 days	**106.00**
Ustilago maydis (Mycosaecoma maydis), Sporisorium reilianum (Sphacelotheca reiliana)				
Seed wash method. **UNTREATED seeds only.**	**PA-CH-MAIS**	500	15 days	**102.00**
***Sclerospora* spp., *Sclerophtora* spp., *Peronosclerospora* spp.**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-MAIS**	500	15 days	**102.00**

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Corn and sorghum

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Sorghum				
Bipolaris oryzae (Helminthosporium oryzae), Bipolaris cookei (Helminthosporium sorghicola), Fusarium* section *liseola, *Fusarium* (other sections), *Macrophomina phaseolina, Helminthosporium* sp.				
Agar method.	**PA-ES-SOR**	400	19 days	**106.00**

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	**317.00**
Maize dwarf mosaic virus **(MDMV)**				
ELISA on plantlets.	**PA-VI-44**	1 000	37 days	**317.00**
Wheat high plains virus **(WHPV)**				
ELISA on plantlets.	**PA-VI-62**	1 000	37 days	**317.00**
Sugarcane mosaic virus **(SCMV)**				
ELISA on plantlets.	**PA-VI-89**	1 000	37 days	**317.00**
Wheat streak mosaic virus **(WSMV)**				
ELISA on plantlets.	**PA-VI-92**	1 000	37 days	**317.00**
Corn - Detection of 2 pathogens. Specify the 2 required viruses				
MCMV/MDMV/SCMV/WSMV				
ELISA on plantlets.	**PA-VI-59**	1 000	37 days	**469.00**
Corn - Detection of 3 pathogens. Specify the 3 required viruses				
MCMV/MDMV/SCMV/WSMV				
ELISA on plantlets.	**PA-VI-96**	1 000	37 days	**585.00**
Corn - Detection of 4 pathogens				
MCMV/MDMV/SCMV/WSMV				
ELISA on plantlets.	**PA-VI-54**	1 000	37 days	**827.00**

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 - 14l.	**BI-G-EL-PUR-M-14**		Contact BioGEVES	
Purity control by iso-enzymatic electrophoresis - 19l.	**BI-G-EL-PUR-M-19**		Contact BioGEVES	

Genotyping by molecular biology

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

Technological quality: biochemicals tests

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

[40] Quarantine parasite

Corn and sorghum

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 (**COFRAC**). List of methods available on request.	**BI-D-OGM2**			Contact BioGEVES

Field tests by SEV

		Price
DUS testing - **Corn.**	**SEV-DHS-MAIS**	**1235.00**
DUS testing - **Sorghum.**	**SEV-DHS-SOR**	**1235.00**

PUBLICATIONS (Contact SNES)

Germination analysis technical sheet
Evaluation of **Corn** seedlings. **GE-FAP-ZM**

Technical sheet for analysis of specific purity and counting of all other seeds
Zea mays. **AP-C-6**

Identification data sheet of seeds and other impurities
Sorghum bicolor. **AP-C-17**

Collection of seeds
Weed's identification for ***Zea mays*** analysis. **APCS-ZEA-M**

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SEED QUALITY

Physical quality

		Size	Duration	Price
Thousand-seed weight (on purity test performed by SNES)				
Thousand-seed weight on pure seeds.	**MMS-01**	/	/	**33.00**
Purity analysis test				
Purity - **Sunflower, Soybean.**	**PU-IS-02**	ISTA weight	/	**25.80**
Purity - **Cabbage-Turnip, Rapeseed, Rutabaga.**	**PU-IS-17**	ISTA weight	/	**38.20**
Percentage of a specific type of other seeds. **Specify the search to be performed.**	**PU-CONS1**	/	/	**9.00**
Percentage of a specific type of inert materials. **Specify the search to be performed.**	**PU-CONS2**	/	/	**9.00**
Supplement for purity analysis if received as raw seeds.	**PU-LB-SUP**			Contact SNES
Counting of all other seeds				
Full counting - **Soybean.**	**SP-IS-02**	ISTA weight	/	**25.80**
Full counting - **Sunflower.**	**SP-IS-15**	ISTA weight	/	**70.00**
Full counting - **Cabbage-Turnip, Rapeseed, Rutabaga.**	**SP-IS-16**	ISTA weight	/	**119.00**
Counting of other seeds on purity weight. Indication of the number of other seeds in the specific purity test.	**PU-SP-01**	/	/	**13.40**
Limited counting of all other seeds				
Searching of 1 to 4 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-01**	ISTA weight	/	**64.00**
Searching of 5 to 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-02**	ISTA weight	/	**102.00**
Searching of more than 8 species (except for *Orobanchaceae*). **Indicate the name of the species to be searched.**	**SP-LI-20**			Contact SNES
Searching of *Orobanche* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO**	ISTA weight	/	**75.00**
Searching of *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-STRIGA**	ISTA weight	/	**75.00**
Searching of *Orobanche* sp. and *Striga* sp. **Only on UNTREATED and UNCOATED seeds.** Analyse performed on a separate, sealed, submitted subsample.	**SP-ORO-STR**	ISTA weight	/	**110.00**
Moisture content - Provide seeds in watertight bags from which as much air as possible has been extracted				
Oven method.	**TE-SN-01**	ISTA weight	/	**20.70**
Supplement for moisture content test requiring pre-drying.	**TE-SN-03**	/	/	**13.40**
Identification of individual seeds				
Visual identification by species.	**ID-IS-01**	/	/	**34.60**

Physiological quality

		Size	Duration	Price
Germination test on 400 seeds				
Sunflower.	**GE-FG-16-4**	1 250	/	**55.00**
Rapeseed, Mustard, Turnip Rape.	**GE-FG-17-4**	1 250	/	**54.00**
Germination test on 200 seeds				
Sunflower.	**GE-FG-16-2**	500	/	**45.70**
Rapeseed, Mustard, Turnip Rape.	**GE-FG-17-2**	500	/	**41.60**
Vigour test				
Cold Test (400 seeds) - **Sunflower.**	**GE-CO-TO-4**	1 250	/	**69.00**
Cold Test (200 seeds) - **Sunflower.**	**GE-CO-TO-2**	500	/	**44.30**
Vigour test - Early count in cold (200 seeds) - **Sunflower** .	**GE-EM-TO**	/	/	**37.10**
Controlled deterioration of 200 seeds including germination capacity.	**GE-DET-1**	500	/	**90.00**
Radicle emergence test on 200 seeds (ISTA test) - **Rapeseed.**	**GE-EM**	/	/	**77.00**
Conductivity test on 200 seeds on ISTA species. *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).*	**GE-CON-GLO**	500	/	**57.00**

[40] Quarantine parasite

Oil plants

Bacteriology - Uncoated seeds only

		Size	Duration	Price
Rape - Detection of 1 pathogen				
***Xanthomonas campestris* pv. *campestris* (Xcc)**				
Agar method + pathogenicity test in case of suspect colonies (ISTA 7-019a without counting of colonies).	**PA-BA-04**	30 000	36 days	**220.00**
Agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019a).	**PA-BA-03**	30 000	36 days	**232.00**
Disinfected seeds . Grinding + agar method + pathogenicity test in case of suspect colonies (ISTA 7-019b without counting of colonies).	**PA-BA-105**	30 000	36 days	**262.00**
Disinfected seeds . Grinding + agar method + counting of colonies + pathogenicity test in case of suspect colonies (ISTA 7-019b).	**PA-BA-05**	30 000	36 days	**276.00**
***Xanthomonas campestris* pv. *armoraciae (raphani)* (Xca)**				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-29**	30 000	36 days	**211.00**
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies.	**PA-BA-30**	30 000	36 days	**262.00**
***Pseudomonas syringae* pv. *maculicola* (Psm)**				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-10**	30 000	36 days	**225.00**
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies.	**PA-BA-33**	30 000	36 days	**266.00**
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	**266.00**
Disinfected seeds. Grinding + agar method + pathogenicity test in case of suspect colonies (ISTA 7-019b without counting of colonies for Xcc).	**PA-BA-07**	30 000	36 days	**316.00**
Xcc + Psm				
Agar method + pathogenicity test in case of suspect colonies colonies (ISTA 7-019a without counting of colonies for Xcc).	**PA-BA-45**	30 000	36 days	**324.00**
Xca + Psm				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-46**	30 000	36 days	**324.00**
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	**378.00**
Sunflower				
Pseudomonas syringae* pv. *helianthi				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-87**	5 000	36 days	**278.00**
Pseudomonas cichorii				
Agar method + pathogenicity test in case of suspect colonies.	**PA-BA-122**	5 000	36 days	**284.00**

Mycology - See p.8 "Seed health"

		Size	Duration	Price
Rape				
Leptosphaeria maculans* and/or *Plenodomus biglobosus (Phoma lingam), Alternaria brassicae, Alternaria brassicicola, Alternaria japonica, Sclerotinia sclerotiorum, *Botrytis cinerea, Phoma* sp.				
Agar method (derivated from ISTA method 7-004).	**PA-ES-CHO**	400	19 days	**106.00**
***Leptosphaeria maculans* and/or *Plenodomus biglobosus* (*Phoma lingam*)**				
Agar method (ISTA 7-004).	**PA-PH-CHO**	1 000	25 days	**262.00**
Albugo candida				
Seed wash method. **UNTREATED seeds only.**	**PA-ALB-CHO**	500	15 days	**102.00**
***Hyaloperonospora parasitica* (downy mildew)**				
Seed wash method. **UNTREATED seeds only.**	**PA-MI-CHO**	500	15 days	**102.00**
Grow-out method (viability testing).	**PA-MICHOGO**	400	42 days	**129.00**
Carnation				
Alternaria papavericola (Helminthosporium papaveris), *Fusarium* (all sections), *Botrytis* sp., *Alternaria* sp.				
Agar method.	**PA-ES-OEI**	400	19 days	**106.00**
Sunflower				
Botrytis cinerea, Sclerotinia sclerotiorum, *Alternariaster helianthi (Alternaria helianthi)*				
Blotter method derivated from ISTA method 7-003.	**PA-ES-TOU**	400	23 days	**139.00**

[40] Quarantine parasite

Oil plants

Mycology - See p.8 "Seed health"

			Size	Duration	Price
Sunflower					
Botrytis cinerea					
Blotter method (ISTA 7-003). **UNTREATED seeds only.**	**PA-BOT-TOU**		400	23 days	**139.00**
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	**110.00**
Agar method without superficial disinfection. **Treated seeds only.**	**PA-PHO-TOU**		400	23 days	**106.00**
Puccinia helianthi **(rust)**					
Seed wash method. **UNTREATED seeds only.**	**PA-RO-TOU**		500	15 days	**102.00**
Septoria helianthi **(leaf spot)**					
Seed wash method. **UNTREATED seeds only.**	**PA-SEP-TOU**		500	15 days	**102.00**
Pustula tragopogonis (Albugo tragopogonis) **(white rust)**					
Seed wash method. **UNTREATED seeds only.**	**PA-ALB-TOU**		500	15 days	**102.00**
Plasmopara halstedii					
Real time SE-PCR (**COFRAC** - ANA/PAT/QS/MY/MO/008).	**PA-MY-PLAS**	NEW	1 000	10 days	**254.00**

EVALUATION OF VARIETIES

Varietal resistance

			Size	Duration	Price
Rapeseed					
Plasmodiophora brassicae **pathotypes P1+ / P1- / P2+ or P2-**					
Official protocol.	**PA-R-COLZA**		45	/	**288.00**
Identification of *Plasmodiophora brassicae* pathotype					
From galls, per sample.	**PA-RIDPLA1**		/	/	**469.00**
From soil, per sample.	**PA-RIDPLA3**		/	/	**704.00**
Sunflower					
Plasmopara halstedii **races 100 / 304 / 307 / 314 / 334 / 703 / 704 / 710 / 714 / 774 or 714-Pl8**					
Official protocol on 30 plants (hybrids).	**PA-R-TOURN1**		45	/	**117.00**
Official protocol on 60 plants (lines).	**PA-R-TOURN2**		90	/	**203.00**
Plasmopara halstedii					
Identification of the race.	**PA-ID-PLA**		/	/	**377.00**
Resistance to OXTP, by isolate.	**PA-RIDPLA2**		/	/	**102.00**

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

Technological quality : biochemicals tests

		Size	Duration	Price
Camelina, Rapeseed, Sunflower				
Fatty acid composition (CPG method).	**BI-B-CPG-AG**			Contact BioGEVES

[40] Quarantine parasite

Oil plants

Technological quality : biochemicals tests

		Size	Duration	Price
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	
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	

Detection, identification and quatification 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 tests by SEV

			Price
DUS testing - **Rapeseed.**	**SEV-DHS-COL**		**1430.00**
DUS testing - **Sunflower.**	**SEV-DHS-TOU**		**1235.00**
DUS testing - **Brown mustard.**	**SEV-DHS-MOU**	NEW	**1235.00**
Checking the pollen beetles trap characteristic - **Rapeseed.** Contact patrick.bagot@geves.fr	**SEV-COL-MEL**		**/**

PUBLICATIONS (Contact SNES)

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

[40] Quarantine parasite

Micro-cleaning

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

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

HOW IT IS DONE ?

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

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

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

EQUIPMENTS

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

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

Requests for information: contact.mn@geves.fr

Cytology

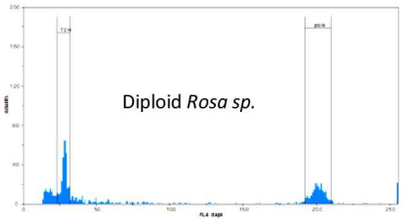
Evaluation of ploidy level from plants or seeds.

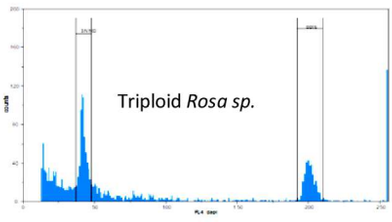
Cytology analyses carried out by the SNES aim to determine the level of ploidy by chromosome counting of root meristematic cells and/or flow cytometry.
Ploidy defines the number of chromosome copies of a cell. The level of ploidy is characteristic of the species or variety. These analyses can be carried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

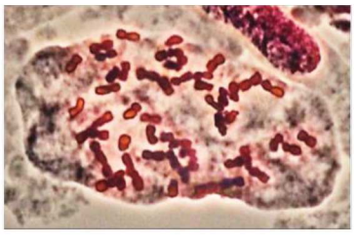




MICROSCOPY

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

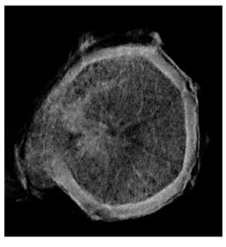
Tools for evaluating seed quality.

WHY USE 2D OU 3D RADIOGRAPHY?

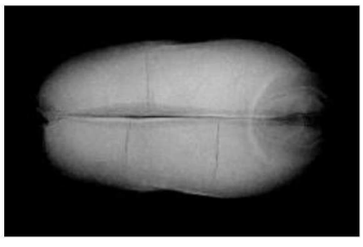
Radiography allows the internal morphology of seeds to be visualised. The objective is to understand or predict problems of physical or germinative quality. This tool also allows the phenotyping of precise characters of interest according to the request.

WHAT IS THE DIFFERENCE BETWEEN 2D RADIOGRAPHY AND TOMOGRAPHY?

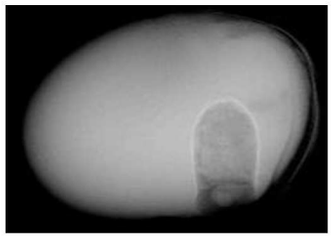
2D radiography is a non-destructive method that allows rapid observation of different criterias on seeds (physical damages, empty seeds, insect damages, etc.). This technology allows a qualitative diagnosis of the state of the internal morphology. The Physical Analysis laboratory is ISTA accredited for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



Empy seed



Physical damages



Insect damages

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

Evaluation of the quality of the coating

Quantification of insect damages

Quantification of cracks on a Corn seed

		Price
2D radiography on seeds without interpretation (per digital image).	**RX-IS-03**	**25.90 €**
2D image interpretation for internal morphological characterisation, the detection of insect/physical damage (%).	**RX-SUP-03**	**16.20 €**
Supply of one 2D image in .jpg format, for a particular determination or for measurements.	**RX-SUP-RA**	**1.10 €**
For any request for information or analysis in 3D tomography: - 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.	**RX-IS-05**	bea-tomographe@geves.fr
Visual or automatic image processing.	**RX-SUP-05**	bea-tomographe@geves.fr
Supply of a batch of 2D images in jpg format.	**RX-SUP-TO**	bea-tomographe@geves.fr

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

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

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

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

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

APPLICATION OF PRODUCTS ON SEEDS

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

		Price
Application of a seed treatment product by SNES in the case of a treatment evaluation.	GE-APPLI	**46.00**

SELECTIVITY TESTS

To check the selectivity of a treatment, the germination test should be determined on 400 seeds.		Price
Vegetables.	GE-FG-18-4	**65.00**
Cereals.	GE-FG-01-4	**51.00**
Oilseeds.	GE-FG-17-4	**54.00**

The percentage of seedlings showing phytotoxicity symptoms can be provided specifically.		
All species.	GE-FG-PCPL	**23.10**

EVALUATION OF TREATMENTS FOR SEED AND PLANT PROTECTION

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

Few examples of available pathosystems[4]

Wheat	*Microdochium nivale* *Tilletia caries.* *Fusarium* spp. (*Fusarium graminearum, Fusarium avenaceum, Fusarium culmorum*). *Puccinia striiformis, Puccinia triticina.* *Pythium irregulare*	**Maize**	*Fusarium graminearum.* *Fusarium verticilioides.* *Pythium ultimum.* *Rhizoctonia solani*
Rapeseed	*Plasmodiophora brassicae.* *Phoma lingam.* *Fusarium oxsporum conglutinans.* *Alternaria brassicicola.*	**Sunflower**	*Botrytis cinerea* *Plasmopara halstedii.* *Verticillium dahliae.* *Fusarium moniliforme.*
		Cabbage	*Hyaloperonospora brassicae.*
Beet	*Aphanomyces cochlioide.* *Pythium sp.*	**Lettuce**	*Fusarium oxysporum race 1 et 4.*
		Tomato	*Meloidogyne incognita.*

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

EVALUATION OF BIOSTIMULANT PRODUCTS FOR GERMINATION AND/OR SEEDLING GROWTH

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

			Price / Contact
Monitoring of seed germination on 200 seeds			
Germination energy (intermediate count; in addition to germination capacity). Counting dates for energy vary according to the species.	GE-EG		**19.900**
Germination kinetics by image analysis (average rate of germination, kinetic curve).	GE-CI		sylvie.ducournau@geves.fr
Seedling development tests			
Corn root length evaluation after 7 days germination at 15°C (4 replicates of 20 seeds).	GE-RAC		**77.00**
Dry biomass of 4 replicates of 20 seedlings after germination test.	GE-BIOM		**55.00**
Total length and root classification per diameter (4 replicates of 20 seedlings).	GE-CLASS	NEW	**75.00**
Growth kinetics by image analysis (Eloncam bench).	GE-ELON		sylvie.ducournau@geves.fr

Disease test supplies : inoculum and reference material

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

Pests' inoculum (contact SNES)

		Price
Specific preparation		
Suspension of *Ditylenchus dipsaci larvae* (exemple of price: 1 335€ to inoculate 9000 plants).	**PA-AD-DIT**	**/**
Beet seedlings contaminated with viruliferous aphids *Myzus persicae* carrying yellowing virus BChV (*Beet chlorosis virus*).	**PA-AD-MYZ**	**/**
Other isolates and inoculum		
One tray of 140 seedlings infected by a race of stripe/yellow rust (*Puccinia striiformis*). Contact jean-philippe.maigniel@geves.fr.	**PA-AD-ROU2**	**130.00**
Inoculum supplied in Petri dishes.	**PA-AD-INOC**	**/**
Inoculum supplied as contaminated cotyledons, plants or fresh leaves.	**PA-AD-INOP**	**/**
Inoculum supplied in artificially contaminated grains that have lost germination capacity or artificially contaminated seeds that have maintained a germination capacity.	**PA-AD-INOG**	**/**
Inoculum supplied in liquid suspension.	**PA-AD-INOL**	**/**
Cyst of *Globodera pallida*[40] or *Globodera rostochiensis*[40].	**PA-AD-GLO**	**/**
Cyst of *Heterodera schachtii.*	**PA-AD-HET**	**/**

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**	**168.00**
Specific preparation of 5 g of galls of *Meloidogyne incognita* (for inoculation of 15 to 20 plantlets).	**PA-AD-MEL**	**180.00**
Specific preparation of 5 g of galls of *Plasmodiophora brassicae* (for inoculation of 50 to 100 plantlets).	**PA-AD-PLAD**	**180.00**
Specific preparation		
100 mg of a vial of spores of stripe rust (*Puccinia striiformis*) or brown rust (*Puccinia recondita*) or crown rust (*Puccinia coronata*).	**PA-AD-ROU**	**62.00**
Specific preparation		
50 to 100 seeds of germinated **Sunflower** seeds contaminated by *Plasmopara halstedii* (downy mildew).	**PA-AD-TOU2**	**180.00**
Lettuce seedlings infected with 1 race of *Bremia lactucae*, 30 cotyledons in the test period.	**PA-AD-BREM**	**180.00**
Erysiphe pisi, 2 seedlings with presence of sporulation.	**PA-AD-ERYS**	**180.00**
2 cotyledons of **Melon** infected by 1 race of *Golovinomyces cichoracearum* (powdery mildew).	**PA-AD-GOL**	**180.00**
2 cotyledons of **Melon** infected by 1 race of *Podosphaera xanthii* (powdery mildew).	**PA-AD-POD**	**180.00**
2 **Lettuce** seedlings infected with *Nasonovia ribisnigri* race Nr: 0 with presence of apterae.	**PA-AD-NAS**	**180.00**
30 leaves of **Basil** contaminated by *Peronospora belbahri.*	**PA-AD-BEL**	**180.00**
Controls/differential hosts vegetables (MATREF) for one sowing unit (1 g for Bremia, 200 seeds for other pathogens)		
Complete pack of differential hosts for *Bremia* of **Lettuce.**	**PA-HD-BLAI**	**366.00**
Carrot.	**PA-HD-CAR**	**50.00**
Squash.	**PA-HD-COU**	**88.00**
Watermelon.	**PA-HD-PAS**	**88.00**
Bean.	**PA-HD-HAR**	**69.00**
Lettuce.	**PA-HD-LAI**	**69.00**
Corn salad.	**PA-HD-MAC**	**50.00**
Melon.	**PA-HD-MEL**	**88.00**
Capsicum.	**PA-HD-PIM**	**101.00**
Pea.	**PA-HD-POI**	**69.00**
Tomato.	**PA-HD-TOM**	**88.00**
Tomato Rootstock.	**PA-HD-PGTO**	**101.00**

[40] Quarantine parasite

INTER-LABORATORY PROFICIENCY TESTS (ILPT)

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

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

Inter-laboratory proficiency tests – PT & Other comparisons

	Price	Contact
Purity – **All species** (based on 15 participants) – by sample.	**186.00**	
Germination – **All species** (based on 15 participants) – by sample.	**128.00**	
Moisture content – **All species** (based on 15 participants) – by sample.	**81.00**	
Thousand-seed weight – **All species** (based on 15 participants) – by sample.	**75.00**	Fabienne BRUN
Seed health.	**Contact SNES**	eil.semences@geves.fr
Organisation of inter-laboratory comparisons tests on request.	**Contact SNES**	
Supply of reference samples for internal laboratory control.	**Contact SNES**	
Expertise in the case of atypic results on seeds assay or deviation found (control card for recognized laboratories).	**Contact SNES**	

AUDITS

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

REFERENCE MATERIALS AND DOCUMENTS SUPPLIES

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

TRAININGS - EXPERTISES

To apply for training		Price	Contact
Technichal training with SNES. Seed quality analysis, inter or in-company, at SNES or on-site.		**Contact SNES**	Fabienne BRUN formation.semences@geves.fr
Technichal training with BioGEVES.		**Contact SNES**	biogeves.analyses@geves.fr
Technichal training with SEV.		**Contact SNES**	rachel.tessier@geves.fr
For the setting up of an expertise in an international context			
Technical expertise and visit.		**Contact SNES**	secretariat.direction@geves.fr
Collective reading of results			
Collective reading of germination results, details of abnormals and debriefing of the results reading, per sample.	**GE-LECT**	**102.00**	lnr.semences@geves.fr

Terms and Conditions

Article 1 – General Information
The present general terms and conditions of sale apply for services which appear in the GEVES price list (Variety and Seed Study and Control Group), public interest group governed by the constitutive convention of July 17, 1989, having made the object of an approval order dated July 17, 1989 and its modified constitutive convention of April 17, 2014 whose head office is located 25 rue George Morel, CS 90024, 49071 Beaucouzé Cedex FRANCE.
The main official missions of GEVES are to conduct studies or analyses of:
- characterization and/or identification of varieties,
- agronomic quality of varieties,
- physical, physiological and sanitary control of seed.

Article 2 - Object and field of application
The analyses carried out within the framework of any order are in accordance with the present general terms of sale.

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

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

Article 3 - Orders
3-1) Order taking
The orders are definitive only when the present general terms of sale are full accepted by the legal representative of the customer or any person duly appointed for that purpose.
The customer has to respect the terms of the supply of material described in the GEVES price list.
3-2) Modification of the order
The terms of the orders transmitted to GEVES are irrevocable for the customer, except written acceptance from GEVES. On this assumption, GEVES will not be held anymore by the deadlines agreed upon at the moment of the initial order.
3-3) Refusal of order
If a customer places an order to GEVES, without having carried out the payment of preceding orders despite reminder from GEVES, GEVES can repudiate the order, without the customer being able to claim any allowance, whatever the reason.
GEVES reserves itself the right to refuse any order.

Article 4 - Delivery of the results
4-1) Delivery time
The delivery time of the results are given only on a purely informative and indicative basis; those depending in particular on arrival of the orders, the respect of the conditions of preparation of the samples sent by the customer (weight, number, packing for example), request for more information, or complementary analyses. For each service, useful information is available on the GEVES website (www.geves.fr). In any assumption, the delivery within the deadlines can intervene only if the customer is up to date of his obligations with GEVES.
GEVES shall endeavor to meet agreed deadlines with the customer.
Delays of delivery of results cannot lead to any penalty or allowance, nor to justify the cancellation of the order.
4-2) Terms
The delivery of the results is made by paper form or by electronic way.
4-3) Complaints
The complaints are to be forwarded to the customer service of GEVES whose 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 Beaucouzé Cedex FRANCE
- by signed and accepted draft or promissory note.
GEVES does not authorize any discount for cash payment or on a former date to those resulting from these general terms of sale.
9.3) - Delay of payment
Any sum still not paid at the due date by the customer will give rise to the payment of penalties at the rate of the European Central Bank plus 10 points and a lump sum of 40 Euros for recovery costs in compliance with Decree n° 2012-1115. These penalties are payable automatically without prior notice from GEVES on the date following the due date. Moreover, GEVES reserves itself the faculty to apply to the competent court of law to stop this non-fulfillment, under penalty per day of delay.

Article 10 - Confidentiality - Rights of ownership
GEVES guarantees the confidentiality of the results of analysis, unless the detection of a quarantine pathogen. Under such circumstances, GEVES has to communicate immediately to the qualified services of the ministry in charge of agriculture all information relating to the material in which the quarantine pathogen was identified.
This exception also applies to other situations, such as the detection of fortuitous presence of GMO, if the regulation in force imposes to GEVES to communicate information to the qualified services of the French State.

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

Article 11 - Personal data
For any processing of personal data carried out in connection with this Quotation, the Parties shall comply with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, as transposed into French Law No 2018-493 of 20 June 2018.

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

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

Article 12 – Agreement of proof

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

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

Article 13 - Force majeure
The emergence of a case of force majeure causes the suspension of the execution of the obligations of GEVES.

Article 14 - Attribution of jurisdiction
For all disputes relating to the services carried out by GEVES, including those relatives to the interpretation of the general terms of sale, the jurisdictions of Angers shall be qualified.

Article 15 - Applicable law
The present general terms of sale, and any question which it would omit to treat, shall be exclusively governed by the French law.

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

OUR PUBLICATIONS AND REFERENCE MATERIAL
National Seed Testing Station

OUR PUBLICATIONS AND REFERENCE MATERIAL

Technical Data

Reference Collections

Seed Control Kit

More information at **www.geves.fr**

Contact : lnr.semences@geves.fr

GEVES
Expertise & Performance

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