EXCELLENCE IN TOBACCO SEED & BREEDING

BERGERAC
SEED & BREEDING

A DYNAMIC & REACTIVE TEAM AT YOUR SERVICE
YOUR PARTNER IN SUCCESS

HIGH QUALITY SEEDS - BREEDING EXPERTISE - AGRONOMY TECHNICAL SUPPORT
Bergerac Seed & Breeding (BSB), was founded in 2015 on the scientific background of the historical Tobacco Institute of Bergerac. BSB is today fully committed to answering the challenge of leaf integrity and social responsibility. Its genuineness comes from the close relationship between researchers, development technicians and final users. They are all empowered to discover solutions best adapted to each individual local growing conditions.

BSB team is dedicated to the breeding, production and commercialisation of high quality tobacco seeds. Our seeds can be sent all over the world from BSB head office in Bergerac, South West of France.

BSB makes continuous investments in the improvement of the quality of its seeds, as well as the development of new hybrids with a higher yield and leaf quality potential, resistances to pests and diseases, and adaptation to various climatic conditions. Our Flue-cured, Burley and Dark tobacco varieties have proved to be adapted to different countries conditions, in Asia, Africa, Europe and America.
Tobacco seed breeding is the heart of the BSB scientists’ activities. Since 1927, top leaf quality with respect to end product is consistently the focus of Bergerac researchers. BSB breeding program is committed to this vision at all steps.

The BSB hybrid pipeline is the result of a long and meticulous process of genetic improvements with traditional breeding methods, followed by an intensive experimentation work in all key areas of production leading to cultivars adapted to various conditions.

All our programs are supported by molecular marker assisted breeding.

Key aspects inherent to tobacco cultivation and products are carefully taken into account in our variety selection:

- Leaf body, colour and industrial processing properties
- Alkaloid and sugar balance (Flue-cured)
- Yield and yield stability
- Stand-up ability
- Plant general health and resistances to main tobacco pathogens
- Plant architecture for easier sucker control and mechanical harvest

The BSB breeding team is active in the tobacco scientific community and collaborates with peers on these topics.
This information is provided for guidance for the users in typical situations of tobacco growing. Plant pathogens not cited in the above table may cause diseases on the aforementioned cultivars. New strains of the above cited pathogens, of which existence is not known or not published at printing of this brochure, may cause diseases on the aforementioned cultivars. Unusual agronomic techniques to grow, treat or feed tobacco plants, and / or unusual soil or climatic conditions, are not concerned by this information, which may become irrelevant in these unusual situations.
BSB Flue-cured varieties are well known for their good holding ability and easiness for curing. They deliver a high quality raw matter with good body and clean homogeneous colour with low stem ratio, filler to semi-aromatic depending on varieties.
ITB 683

**Resistances:** Black root-rot, PVY\(^n\), Powdery mildew

ITB 683 is a very early hybrid selected for curability and high yield potential. It produces a typically clean, sunny light lemon to lemon filler flue-cured tobacco profile with very good body, moderate nicotine and high sugar to nicotine ratio. Ridging is advised.

ITB 6172

**Resistances:** Black root-rot, PVY\(^n\), Broomrape IR, Blue mold IR

ITB 6172 produces a light lemon filler tobacco, with low stem ratio. In the field, the pale-green leaf colour is not a maturity sign: wait for the typical white midrib colour and leaves that detach easily.

ITB 6163

**Resistances:** Black root-rot, PVY\(^n\), Blue mold IR

ITB 6163 is a very early variety, easy to cure, with a low stem ratio. Manage the crop conditions for a good control of nicotine. With its blue mold intermediate resistance, it is suitable for organic production. Ridging is advised.

ITB 6184

**Resistances:** Black root-rot, PVY\(^n\), TMV, Southern root-knot nematodes

ITB 6184 is a new filler flue-cured hybrid with good stalk stand-up ability, an important trait for mechanical harvest, high yield and leaf body quality potentials. This variety will easily produce a uniformly coloured filler flue-cured with high sugar to nicotine ratio.

**NEW!**

**N°1 Shisha Reference**

**NEW!**

**Broomrape and blue mold IR**

**NEW!**

**Blue mold IR**

**NEW!**
ITB 6180

**Resistances:** Black root-rot, PVY

ITB 6180 is an early hybrid with very high yield potential. The plant is strong and will have to be managed accordingly. Tobacco produced is light lemon and homogeneous with a moderate nicotine level.

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FLUE-CURED

SEMI AROMATIC

ITB 6118

**Resistances:** Black root-rot, PVY, Southern root-knot nematodes

ITB 6118 is a hybrid combining potential for a semi-aromatic style of tobacco and very fast leaf maturity. The leaf colour is lemon to lemon orange, with a low sugar to nicotine ratio. The plant is short and adapted to mechanical harvest.

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ITB 689

**Resistances:** Black root-rot, PVY, TMV, Southern root-knot nematodes

ITB 689 is an early flue-cured variety, resistant to TMV, with good leaf body quality, recognised for its curing ability. ITB 689 produces tall plants, ridging is advised.
**ITB 678**  
**Resistances:** Black root-rot, PVY*, Southern root-knot nematodes  
ITB 678 is a semi-aromatic hybrid with early leaf maturity and good yield. Its good holding ability facilitates the success of flue-curing to deliver a homogeneous and high quality result, lemon to lemon-orange in colour.

**ITB 609**  
**Resistances:** Black root-rot, PVY*  
ITB 609 is a semi-aromatic hybrid, with early leaf maturity, adapted to short growing seasons, with good holding ability and potential for an evenly coloured, clean lemon semi-aromatic tobacco.

**ITB 6164**  
**Resistances:** Black root-rot, PVY*, TMV, Southern root-knot nematodes  
ITB 6164 is a hybrid with early leaf maturity and high quality potential. The tall plant has good root system and stalk stand-up ability. The nicotine content is moderate.

**ITB 6179**  
**Resistances:** Black root-rot, PVY*, TMV, Southern root-knot nematodes  
ITB 6179 has a strong potential for yield, combined with a good holding ability. It produces a lemon to lemon orange tobacco. Top leaves architecture is well adapted to mechanical harvest with wide and horizontal top leaves.
ITB 6154

Resistances: Black root-rot, PVY®, TMV, Southern root-knot nematodes

ITB 6154 is a semi-aromatic hybrid with high productivity. It shows a proven ability to produce high quality raw matter in different climatic conditions.

ITB 6178

Resistances: Black root-rot, PVY®, Southern root-knot nematodes

ITB 6178 has demonstrated a strong potential for a superior leaf quality and high yield, with good curing and holding quality. Top leaves of ITB 6178 are wide and horizontal, facilitating mechanical harvest.

FLUE-CURED

LATE MATURITY

ITB 354

Resistances: PVY®, Southern root-knot nematodes

ITB 354 is a filler to semi-aromatic hybrid with a high yield potential. ITB 354 is easy to top and has a late sucker growth (relative to floral growth stages), which improves the efficiency of sucker control with contact products.
**ITB 6176**  
Resistances: Black root-rot, PVY®, Southern root-knot nematodes  
ITB 6176 is a hybrid with late leaf maturity, comparable to standard K326. It produces an evenly lemon to lemon orange coloured flue-cured tobacco with good body and quality, moderate nicotine content, and a high sugar / nicotine ratio. Stalk stand-up ability is good and facilitates mechanical harvest.

**ITB 6123**  
Resistances: Black root-rot, PVY®, Southern root-knot nematodes  
ITB 6123 produces a semi-aromatic style, lemon to lemon-orange depending on stalk positions and conditions. Days to leaf maturity are close to K326. Yield is high.

**ITB 6176**  
Resistances: Black root-rot, PVY®, Southern root-knot nematodes  
ITB 6176 is a hybrid with late leaf maturity, comparable to standard K326. It produces an evenly lemon to lemon orange coloured flue-cured tobacco with good body and quality, moderate nicotine content, and a high sugar / nicotine ratio. Yield potential is very high.

**ITB 6148**  
Resistances: Black root-rot, PVY®, Southern root-knot nematodes  
ITB 6148 is a late maturity flue-cured hybrid, filler to semi-aromatic, with potential for leaf quality and good productivity. ITB 6148 shows a good holding and curing ability.
BSB Burley varieties have potential for producing top quality aromatic Burley style and fast maturity.
ITB 5119  
**Resistances**: Black root-rot, PVY®, Blue mold IR  
ITB 5119 is a filler to semi-aromatic Burley hybrid, selected for early leaf maturity and adaptation to limiting temperatures at spring. It is suitable for stalk harvesting and curing.

ITB 2604 
**Resistances**: Black root-rot, PVY®  
ITB 2604 is a filler to semi-aromatic Burley hybrid with a high yield potential and medium leaf maturity, suitable for stalk harvesting and curing.

ITB 593 
**Resistances**: Black root-rot, PVY®, TMV  
ITB 593 is an aromatic Burley hybrid with very early, uniform from bottom to top leaf maturity, good yield and strong potential for tan and brown aromatic leaves. The short erect shaped plant is suitable for mechanical harvest.

ITB 501 
**Resistances**: Black root-rot, PVY®  
ITB 501 is an aromatic Burley hybrid with early leaf maturity and high quality potential. Top leaves are well developed and tan brown coloured. The short erect shaped plant is suitable for mechanical harvest.
**ITB 221**

*Resistances: Black root-rot, PVY*, Nicotine

ITB 221 is an aromatic Burley with strong potential for high quality tan brown coloured tobacco. Top leaves are well developed. Sucker emission is late relative to floral growth, which facilitates their control with contact products.

**ITB 5109**

*Resistances: Black root-rot, PVY*, Blue mold IR, Nicotine

ITB 5109 is a new, medium-early maturing aromatic Burley hybrid combining high blue mold intermediate resistance with good leaf quality potential. The plant shape is short with erect leaves, facilitating stalk harvesting by either mechanical or manual means and curing. ITB 5109 should not be stalk-cut too late to avoid higher nicotine levels.

**ITB 5115**

*Resistances: Black root-rot, PVY*, TMV, Blue mold IR, Powdery Mildew, Nicotine

ITB 5115 is a medium maturity aromatic Burley hybrid combining high blue mold intermediate resistance with top leaf quality potential. The leaf maturity is uniform from bottom to top. The short erect shaped plant is well suited for stalk harvesting and curing.

**ITB 562**

*Resistances: Black root-rot, PVY*, TMV, Nicotine

ITB 562 is an aromatic Burley hybrid combining a good potential for leaf quality, high yield and moderate nicotine content. It tends to reaching floral growth 3-5 days later than TN 90LC. The plant size is close to TN 90LC. The total nitrogen content of ITB 562 leaves tends to be lower than other aromatic Burley varieties.
**ITB 574**

*Resistances: Black root-rot, PVY\(^n\), TMV, Blue mold IR, Powdery mildew*

ITB 574 is a medium maturing hybrid with a multiple disease package and a proven ability to produce a high quality aromatic style of Burley. The plant shape is cylindrical with erect leaves, the size is close to TN 90LC. It is well suited for stalk harvesting and curing. Good results are also obtained with leaf harvesting.

**ITB 5107**

*Resistances: Black root-rot, PVY\(^n\), TMV, Blue mold IR*

ITB 5107 has been selected as a medium-late ripening aromatic hybrid with a very strong yield potential associated to blue mold intermediate resistance. The plant shape is semi-erect, with height close to TN 90LC.
DARK TOBACCO HYBRIDS
DARK TOBACCO
HYBRIDS

**ITB 1000**  
**Paraguay**  
**Nicotine** Medium  
Resistances: PVY*, TMV, Blue mold IR

ITB 1000 is a Paraguay subtype of dark air-cured, with extended, semi-erect leaves. Air-curing of ITB 1000 produces a raw matter usable for dark cigarettes, interior of cigars, roll your own blends and, in proper conditions, cigar wrapper leaves.

**ITB 420**  
**Paraguay**  
**Nicotine** Medium  
Resistances: Black root-rot, PVY*, TMV, Blue mold IR

ITB 420 is a Paraguay dark air-cured hybrid with a complete resistance package. ITB 420 produces plants with erect leaves, as tall as ITB 1000. ITB 420 is suitable for stalk or leaf harvesting. It shows a good air-curing ability and produces a classical Paraguay style of dark tobacco, with good body and an evenly spread brown colour.

**ITB 1105**  
**Aromatic Paraguay**  
**Nicotine** Medium  
Resistances: TMV

ITB 1105 produces a light brown coloured tobacco, with good body and flavoursome well balanced smoke. ITB 1105 should be stalk harvested at optimal maturity to ensure the best quality.

**ITB 16410**  
**Dark Kentucky**  
**Nicotine** Early  
Resistances: Black root-rot, PVY*, TMV

ITB 16410 is a new Kentucky dark fire-cured hybrid, resistant to common strains of the PVY* virus. It produces a high quality dark tobacco raw matter with strong, elastic body. Leaf maturity occurs earlier than the reference Kentucky 170, with a lower nicotine content.
ITB 446  
Dark Kentucky  
Alkaloids: Medium

**Resistances: Black root-rot**

ITB 446 is a Kentucky dark fire-cured hybrid with black root-rot resistance and ability to produce a high quality dark Kentucky style raw matter with good body. Compared to the reference Kentucky 170, the flowering date is similar, the yield as well, leaf maturity occurs slightly earlier, and the nicotine content tends to be lower.

ITB 160  
Dark Kentucky  
Alkaloids: Medium-Late

**Resistances: Black root-rot, TMV**

ITB 160 is a Kentucky type tobacco with wide, well developed, velvety, gummy and green coloured leaves. ITB 160 is well adapted to stalk-harvest and air-curing and enables production of high quality dark brown and elastic leaves.

ITB 180  
Cigar Wrapper  
Alkaloids: Medium

**Resistances: Blue mold IR**

ITB 180 is a cigar wrapper subtype of dark air-cured, with wide, horizontal leaves. ITB 180 has been developed in a program aiming at introducing blue mold intermediate resistance into cigar wrapper tobacco.
All the development process of new hybrids and the production of seeds follow strict internal standards of quality. 100% of the BSB seeds are produced in France with the support of local growers around Bergerac area. Sustainability of our production process, compliance and workers security are guiding our standards definition.

Bergerac Seed & Breeding only produces and markets high quality seeds, thus ensuring the purity of tobacco lines and hybrid seeds and the germination capacity of its seeds. All our seed lots are tested for GMO and are controlled in our fields (varietal purity and conformity to the standard) and laboratories (pathology conformity and alkaloid analyses) before sale.

We pay a particular attention in the control of the conversion of nicotine to nornicotine throughout the breeding and seed production processes, systematically discarding plants that do not fit our standards. Every Flue-cured, Burley and Dark variety sold has been screened for low converters.

Bergerac Seed & Breeding sells raw seeds and pelleted seeds. Pelleting is operated by the best selected providers. Package size (grams of raw seeds), number of pellets and pelleting diameter can be specified at the time of the order.

Customer proximity, flexibility and reactivity are the pillars of our daily organization.
SPECIFIC BREEDING PROGRAMS UNDER CONTRACT

Our tobacco breeding expertise makes possible the implementation of specific breeding programs based on your requirements.

This includes:

• development of new varieties adapted to your growing and curing conditions, and to your client expectations,
• introduction of specific traits such as disease resistance traits in your germplasm,
• conversion from fertile to sterile.

MALE STERILE OR FERTILE VARIETIES

SEED PRODUCTION UNDER CONTRACT

Our seed production skills make possible seed production from your own parents.

INDIVIDUAL ALKALOIDS UPCL ANALYSIS

ON YOUR SAMPLES

OTHER VARIETIES

Our most popular varieties are listed in this catalogue. BSB can also produce other seeds, upon request, from:

• varieties with specific properties (high nicotine...),
• fertile varieties (Oriental, others...),
• other Nicotiana species (N. rustica...).

PLEASE CONTACT BSB FOR MORE CUSTOMISED SERVICES

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