

AROMATIC

Herbs



VOLTZ
MARAÎCHAGE

EDITORIAL

DISCOVER AROMATIC HERBS BY VOLTZ MARAÎCHAGE !

In this new catalogue, we are pleased to present our wide selection of aromatics, dedicated to our specialist growers, who are located throughout the world. You'll find all our main crops, basil, chives, parsley, dill and coriander, but also useful compliments like oregano, mint, thyme and many more. The range has also been extended to include complementary species such as rocket, cress and purslane.

RESEARCH, DEVELOPMENT AND PRODUCTION

This range reflects our DNA: it is a selection of the best genetics. It gathers our own material that we are pleased to offer to specialist growers. We short-listed the best of our varieties that we own and produce to offer you what you need for your productions.

QUALITY

Our expertise as a seed supplier is based on more than 38 years of experience from our sales and development team. This gives us confidence in our choice of varieties, to provide you with the best material and quality seeds.

Quality is our first priority. Thanks to rigorous processes, we are able to ensure the purity of our batches, their germination potential and their good sanitary condition. We adapt our work to your needs and expectations, depending on the species.

PRODUCT RANGE

On the following pages, you'll discover many things, such as basil *Rubra* with an intensive purple colour, the original *Menuette* parsley variety, with dill-like foliage and a parsley taste and also our new chives genetics *Polyrex*, with a very upright plant habit.

Year after year, we update our range with the aim of introducing new and exciting varieties. We also strive to introduce as many new organic varieties as possible, in order to meet the growing demand.

The **VOLTZ Maraîchage** international team will accompany you all year round, both in the greenhouse, and in the field, and we are happy to help you at any time.

Abbreviations and icons



Organic seed availability



Pot cultivation

For more general information and information about the various resistances mentioned in this catalogue, please refer to page 35.

Nomenclature of item codes

First letter at the end of the number:

- N** Untreated
- B** Organic

033186 **N** **S**

033186 **B** **G**

Second letter at the end of the number:

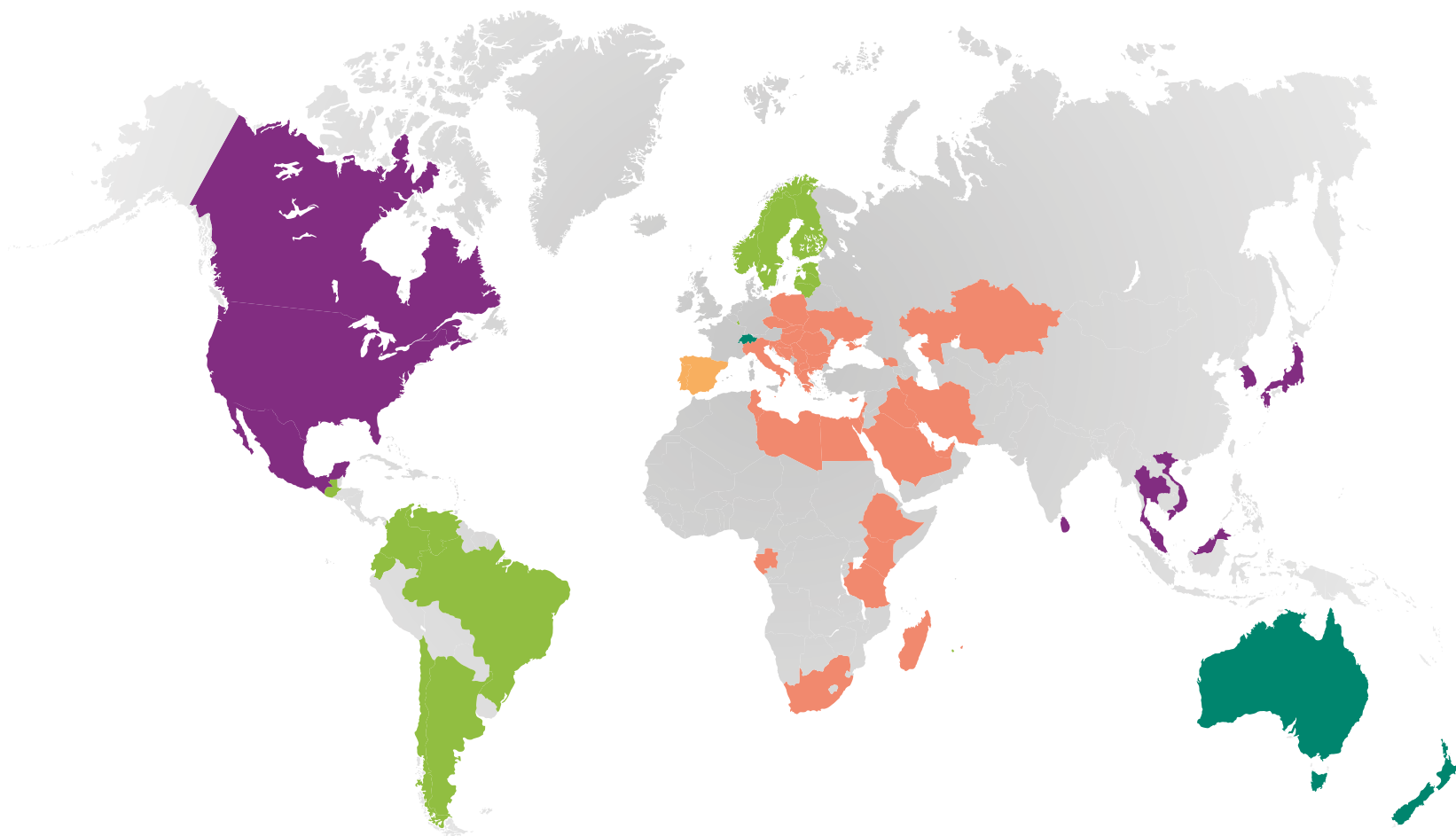
- S** Standard seeds sold by weight
- G** Standard seeds sold per grain
- K** Precision seed sold per grain

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Our research and production activities

At GRAINES VOLTZ, research and production are among our top priorities. We directly develop our varieties and carry out numerous production programs all over the world. These activities are managed at our location in France and the varieties are evaluated in our numerous screening stations in Europe and internationally. We follow the journey of our products throughout their life cycle, from creation to distribution.

VARIETY BREEDING

GRAINES VOLTZ is heavily involved in numerous research programs at our station.

Creation of new varieties

Always attentive to emerging trends such as vertical farming and urban agriculture, GRAINES VOLTZ selects the seeds that best meet new agroclimatic, regulatory and environmental constraints. This allows us to provide our customers with material that is in line with the market and the industry's expectations. We also work very closely with breeders worldwide to introduce new traits of interest, and select the most interesting individuals on genetic and phenotypic criteria, by doing experiments on dedicated plots, and studying their behaviour in real-life conditions.

Varietal selection requires many years of work. Our research focuses on species for which GRAINES VOLTZ has become an undisputed specialist:

- **Basil** with improved organoleptic properties and resistances to certain diseases (Fusarium, mildew, etc.),
- **Dill** with resistance to diseases,
- **Flat and curly parsley** with dark colours, uniform leaves and disease resistance,
- **Chives** with upright growth and strong stems, suitable for various storage conditions,
- **Coriander** suitable for all types of growing conditions
- **Climbing beans** adapted to all geographical areas,
- **Radishes** suitable for all growing conditions, with homogenous and stable shapes and colours.



■ Preservation and propagation of basic seeds

The research team is responsible for the maintenance and multiplication of basic seeds. Basic seed serves as the input for our growers of commercial seed. It is particularly important to preserve seed quality throughout the commercial life of a variety and to avoid what is known as genetic drift. Indeed, genetic drift is when populations can evolve and mutate over time, from generation to generation. If a variety is not preserved properly, its characteristics will change over time, for this reason we have to carry out meticulous work on basic seeds.

■ Control of varietal purity

The research team is also responsible for testing the seeds produced in the field or greenhouse. The aim of these tests is to verify that the seed is of the right variety, that the seed lot is pure and does not contain mixtures with other varieties or off-types. In this way, our customers can be sure that they are buying the best seeds that will give them complete satisfaction.



PRODUCTION

GRAINES VOLTZ produces seeds from its own genetics as well as many public domain varieties. This makes us a specialist a specialist in securing varieties that are difficult or rare to supply. This enables us to manage and secure our stocks according to our needs and our customers' requirements, so that we have seeds available all year round.



Quality seeds, our priority

For more than 38 years, GRAINES VOLTZ has developed and consolidated its specialist knowledge in the field of climatic and environmental conditions for seeds for horticulture. To this end, our entire team is constantly developing new methods to meet the quality requirements of the market and of our customers.

Seeds are a natural product. The quality and the final result also depend on changing environmental conditions. The germination capacity of our precision seeds and pelleted seeds is tested very thoroughly by us in accordance with the guidelines and tolerances of ISTA⁽¹⁾.

- The stated germination capacity values for our precision seeds and pelleted seeds are the minimum values to which GRAINES VOLTZ is committed. They are determined in accordance with the guidelines and tolerances of ISTA⁽¹⁾ and are valid at the time of delivery.
- If the seeds supplied were not going to meet these requirements, GRAINES VOLTZ would notify you.
- Our vegetable seeds are produced using traditional methods and conform to the French and European statutory guidelines.

Seed quality is GRAINES VOLTZ's most important concern. Therefore, our quality department systematically checks physical and sanitary quality as well as germination. Strict procedures for the control of seeds and plants have therefore been introduced. These consist particularly of tests for variety identification and purity, specific purity, germination and the detection of pathogens. The majority of these analyses are carried out by our team in the GRAINES VOLTZ laboratory, in compliance with the ISTA⁽¹⁾ standard.

⁽¹⁾ ISTA: International Seed Technology Association.



Laboratory team

Indicative standards for the germination rate of our precision seeds:
These are minimum values to which GRAINES VOLTZ is committed, depending on the species and seed type.

Types	Precision seeds	Pelleted seeds
Cabbage (white cabbage, red cabbage, Savoy cabbage, cauliflower, broccoli)	90%	-
Carrot (hybrid varieties)	80%	-
Celery	90%	90%
Chicory	90%	92 %
Corn Salad	90%	-
Cucumber	92%	-
Endive (curly and smooth-leaved)	90%	-
Eggplants	90%	-
Fennel	80%	85%
Leek (free-flowering varieties)	85%	90%
Leek (hybrid varieties)	90%	90%
Lettuce	93%	95%
Melon - Charentais varieties	95%	-
Melon - other varieties	90%	-
Onion	90%	-
Parsley	80%	-
Radish	92%	-
Red Beet	90%	-
Spinach	85%	-
Sweet corn	90%	-
Sweet pepper (hybrid varieties) and hot pepper	90%	-
Tomato (hybrid varieties)	92%	-
Watermelon	90%	-
Zucchini	92%	-

NB : The above standards are set in accordance with the ISTA⁽¹⁾ guidelines and tolerances. They are valid at the time of delivery.
⁽¹⁾ ISTA: International Seed Technology Association.



Germination cabinet

Product types

STANDARD SEEDS: This is seed that generally does not undergo any special processing and is sold by weight and/or per unit, depending on the product.

PRECISION SEEDS: Precision seeds undergo additional processing. The seeds are of a uniform size and show high germinability. The seeds are sold per grain.

FILM-COATED SEEDS: The film coating is a total application, usually a coloured layer, covering the entire surface of the grain. The original shape of the grain is preserved. Additional constituents can also be included. Film-coating can be identified by the seeds' colour.

PELLETED SEEDS: Pelleting changes the shape of the seeds. The grains are coated with a base material. The aim is to give the grains a uniform shape and size to facilitate sowing. Other elements can be added. Pelleted seeds are sold per grain.

PRE-GERMINATED SEEDS: Pre-germination is the activation of the germination process in order to obtain faster, more even germination. Pre-germinated seeds are sold per grain. This process is also known as 'priming'.

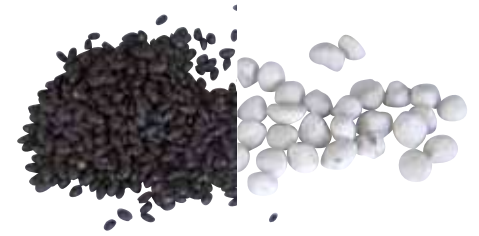
Germination: the germination specifications refer to ISTA processes and are valid at the time of delivery.

Varietal purity: the degree of purity of the variety defines the percentage of plants of the respective variety.

Our products are intended for professional vegetable production and comply with EU standards.



Seed treatment machine



Standard seeds and film-coated/pelleted seeds of basil

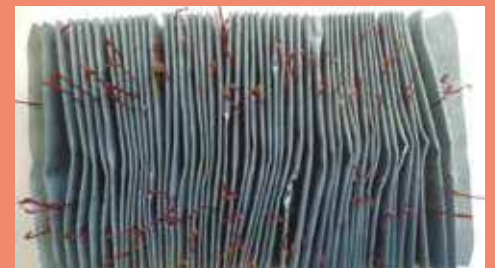


Standard seeds and film-coated seeds of parsley

TESTS



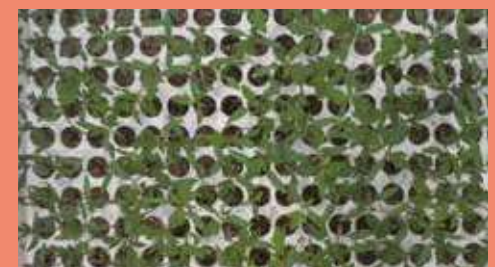
Germination on a Jacobsen table



Germination on folded paper



Germination on smooth paper



Germination

The product at the heart of our work

Seeds : a passion

VOLTZ MARAICHAGE is a team driven by a passion for the product. Our development department is constantly listening to market trends and, above all, to the new needs of vegetable farmers in terms of disease tolerance and unique products.

Our development team looks for the best varieties and most innovative products worldwide, working together with numerous partners and growers.



A team of specialists

At **VOLTZ MARAICHAGE** the set-up and support of the field trials is mostly carried out by your technical and commercial experts. Each of them is responsible for one or more species of which they have good technical and market-related knowledge.





Varieties that have been tested and approved prior to inclusion in our catalogues

The varieties are added to the **VOLTZ MARAICHAGE** catalogue after they have undergone a series of validation procedures, which are determined by the species. For this purpose, the varieties are tested in our network of partner vegetable farmers in many European countries.

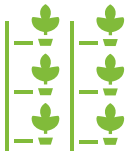


VOLTZ VERTICAL FARMING

a new range to discover



VOLTZ Maraîchage strongly believes that Indoor farming will be part and parcel of future of food production. Building a more sustainable food system with less pesticides, transportation, and water should be a shared purpose. That's how VOLTZ Maraîchage created the brand VOLTZ VERTICAL FARMING, which is dedicated to find the best seeds for Vertical Farmers. Being part of the answer to the world's food security issues is a priority for our family-owned company.



SELECTION



TRANSPARENCY



GERMINATION



COMPLIANCE



HEALTH



AVAILABILITY



Find us on our e-commerce website*

Easy and intuitive. With just a few clicks, you can reach our best seed varieties.



Real time stock inventory



Easy and quick purchase



Online tracking orders



Quote and sample request



www.voltz-vertical-farming.com

*e-shop available to selected countries only

The information provided is for guidance only and therefore does not constitute a guarantee of harvest

BASIL

Ocimum basilicum

TSW	1.5 - 1.8 g
SOIL	Loose, quickly warming soils; pH 6.5 to 7.2; cultivation break : at least 3 years
GERMINATION TEMPERATURE	20 °C - 25 °C; minimum 12 °C
CULTIVATION TEMPERATURE	> 20° C
CLIMATE	Growth stops below 12 °C; sensitive to frost; needs warm temperatures
SOWING TIME	May - June (except. for pot all year round)
SOWING DEPTH	Light germinator
SOWING DENSITY : 10 - 12 CM POTS	40 plants per pot
SOWING DENSITY : FIELDS	Open fields : 4 kg/ha (2.5 million to 3 million plants per ha); row spacing : 28 cm, about 100 plants per running metre
SEEDERS	Single grain seeder (Miniair, Gaspardo); sowing in rows (Sembdner); seed bed (Ortomec); drum seeder (Fliersystems)
FERTILISATION	Plant mass : 18 dt/ha first cut, 12dt/ha second cut; setpoint : 100 kg N/ha, 80 kg P2O5/ha; K2O/ha 120 kg
GROWING GUIDE	Requires warm, but susceptible to water logging; irrigation is necessary for germination
CULTIVATION	Open fields : 80 days; greenhouse/pots : 45 days; additional lighting in winter
PESTS	Aphids (Aphidina), snails
DISEASES	Downy mildew, Septoria petroselini, Fusarium, Botrytis
HARVEST	Three cuts in a season are possible; yield: 1kg per m ² ; harvesting is done by hand or with special machines. Storage temperature for pot cultivation should not be below 12 °C (leaf spot)



GENOVESE



GRAND VERT



- very homogeneous selection
- good behaviour after cutting
- large, slightly blistered green leaf
- fresh cut / industry

Item No.: 058042BS



LOKI



- new generation Genovese type with tolerance to Peronospora (downy mildew)
- homogeneous product with good behaviour in cold conditions
- good for pot production as well as for fresh cut in tunnel or open field

Item No.: 058253NS

Item No.: 058253BS



LUNA

- very insusceptible to cold
- robust against Fusarium
- high yield and a good shelf life after harvest
- high regeneration capacity, also suitable for multi cuttings
- for fresh market and industry

Item No.: 058260NS



PLENTY

- Genovese type with a pleasant anise taste
- high yields, also after multiple harvests
- robust also under difficult cultivation and weather conditions
- robust against Fusarium
- suitable for processing and fresh market

Item No.: 058261NS



BONAZZA

- Genovese type with shiny, dark green leaves
- very robust against Fusarium and Botrytis
- long shelf life after cutting, very good handling and transport capabilities
- suitable for processing and fresh market

Item No.: 058257NS



LUCIA



- for year-round pot cultivation
- flat, slightly dome-shaped leaves
- horizontal leaf position, easy to pack
- very robust and upright
- good post-harvest performance

Item No.: 058259NS



ADRIANA



- compact growing basil for year-round pot cultivation
- dark green variety, easy to wrap up due to horizontal leaf position

Item No.: 058256NS



GUSTOSA



- Genovese type, especially suitable for pot cultivation
- very uniform variety with dark green, dome-shaped leaves
- suitable for year-round cultivation

Item No.: 058079NS

Item No.: 058079BS



CHIARA



- slightly dome shaped Genovese type for pot and fresh cut
- attractive dark green colour
- horizontal leaf position adapted for cutting and packing
- high yields, also after multiple harvests
- strong against Downy Mildew

Item No.: 058650NG

PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Open field	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
GRAND VERT	X												
LOKI	X												
LUNA	X												
PLENTY	X												
BONAZZA	X												
LUCIA													
ADRIANA													
GUSTOSA													
CHIARA													

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Open field	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
GRAND VERT	X												
LOKI	X												
LUNA	X												
PLENTY	X												
BONAZZA	X												
LUCIA													
ADRIANA													
GUSTOSA													
CHIARA													

VARIETY	Organic	Colour	Speed	Leaf habits	Leaf position	Comments	Resistances
GRAND VERT		Green	+	Flat	Hanging	Flexible , rustic	-
LOKI		Dark green	+	Round	Hanging	Year-round	<i>Peronospora belbahrii</i> (Pbb) HR: Pbb 1, Pbb 3 / IR: Pbb 2, Pbb 4
LUNA		Dark green	+	Flat	Horizontal	Robust	IR: Fusarium
PLENTY		Dark green	++	Flat	Horizontal	Intensive and aromatic / anis flavour	IR: Fusarium
BONAZZA		Dark green	+	Flat / round	Hanging	Shelf life	IR: Fusarium, IR: Botritis
LUCIA		Dark green	+	Flat / round	Horizontal	New type	-
ADRIANA		Dark green	+	Round	Horizontal	Easy to pack	-
GUSTOSA		Intense dark green	o	Round	Hanging	Year-round	-
CHIARA		Intensive green	+	Flat / round	Horizontal	New variety	IR: <i>Peronospora belbahrii</i> (Pbb)

for Northwest European climatic conditions
 sowing harvesting

for Southwest European climatic conditions
 sowing harvesting

++ = very fast + = fast o = medium - = low

DIVERSIFICATION



RUBRA



- compact growth combined with upright plant habit
- flat to slightly dome shaped leaves
- intensive purple colour
- for fresh market and pot production

Item No.: 058263NS



HELIOS



- lemon basil with fine leaves
- basil and lemon flavour
- fast growing
- for fresh market and pot production

Item No.: 058258NS



PURPLE RAIN



- strong, upright plant habit
- high uniformity
- attractive deep purple colour
- easy to cut
- for pot production and fresh cut in greenhouse or open field

Item No.: 058654NG

Item No.: 058654BG



THAI BASIL SITA



- authentic Thai basil, sweet aromatic flavor
- pleasant exotic fragrance
- for fresh market and pot production

Item No.: 058264NS



ARGOS



- small leaved basil with remarkable aromatic flavour
- compact, uniform growth
- grows well in pots

Item No.: 058144NS

PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
RUBRA												
HELIOS												
PURPLE RAIN												
THAI BASIL SITA												
ARRGOS												

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
RUBRA												
HELIOS												
PURPLE RAIN												
THAI BASIL SITA												
ARGOS												

VARIETY	Organic	Open field	Colour	Speed	Leaf habits	Leaf position	Comments
RUBRA			Deep purple	o	Slightly dome shaped	Horizontal	Good to blent with green types for pot production
HELIOS		X	Medium green	+	Flat	Horizontal	Combines lemon with basil taste
PURPLE RAIN		X	Shiny deep purple	o	Flat	Horizontal	Attractive eye catcher
THAI BASIL SITA		X	Dark green with purple stems	o	Flat	Horizontal, open	Aromatic thai basil taste
ARGOS			Medium to dark green	+	Flat	Horizontal, bushy	Bushy, compact type

for Northwest European climatic conditions
 sowing harvesting

for Southwest European climatic conditions
 sowing harvesting

++ = very fast + = fast o = medium - = low

CHIVES

Allium schoenoprasum

TSW	1.0 - 1.5 g
SOIL	Almost all soils are possible; in very light soils, the root stability is not strong enough; pH 6.0 to 7.5; cultivation break : at least 5 years
GERMINATION TEMPERATURE	18 °C - 25 °C; minimum 5 °C
CULTIVATION TEMPERATURE	17 °C - 24 °C
CLIMATE	Germination time : 10 - 18 days; good growing conditions in Central Europe
SOWING TIME	Open field : March - July Pot : Year round
SOWING DEPTH	2 cm to 2.5 cm; dark germination
SOWING DENSITY : 10 - 12 CM POTS	80 - 100 plants per pot
SOWING DENSITY : FIELDS	8 - 10 kg per ha (7 million to 8 million plants per ha); row spacing : about 25 cm, 200 plants per running metre
YOUNG PLANTS	30 seeds per 4 cm pot
SEEDERS	Single grain seeder (Miniair, Gaspardo); sowing in rows (Sembdner); drum seeder (Fliersystems)
FERTILISATION	Plant mass : 100 dt/ha; setpoint : 180 kg N/ha, 100kg N/ha per cut; 45 kg P2O5/ha; 180 kg K2O/ha
GROWING GUIDE	Irrigation is necessary, but sensitive to water logging; control weeds after each cut; a constant water supply ensures strong roots
CULTIVATION	Open fields : about 80 days; direct sowing in pots : 55 days; forcing : 1 week
FORCING	Additional lighting for chlorophyll formation; perfect temp. : 22 °C; harvesting the bulbs from November on; store bulbs at -4 °C
PESTS	Onion fly, leek moth
DISEASES	Rust (Puccinia mixta)
HARVEST	Up to three cuts in a season are possible; harvesting is done by hand or special machines





DIVONNE

- good regenerative capability
- stable, very vigorous variety
- well suited for forcing
- fresh / industry

Item No.: 058102NS



FITLAU

- very robust, dark green variety
- ideal for forcing
- performs well in warm Southern Europe/North African conditions
- fresh / industry

Item No.: 058092NS



MARLAU FI

- uniform hybrid with intense dark green colour
- very robust against rust
- suitable for the fresh market and industry
- very high yield
- good for multiple year production

Item No.: 058266NS



POLYSTAR

- fast growing, dark green selection
- does not tend to get yellow leaf tips
- very suitable for pot cultivation
- upright, compact growth
- pot/ fresh / industry

Item No.: 058097NS



POLYUP

- dark green variety, extremely upright and stable
- very high yield, also in the second and third year
- does not tend to get yellow leaf tips
- for fresh market and industry

Item No.: 058267NS



POLYREX (HI 15 110)

- medium-fine, sturdy and very homogeneous
- outstanding new type for pot production, grows strong and upright
- for direct sowing in pots, no recut needed
- strong against yellow tips
- fresh / pot production

Item No.: 058275NS



POLYVERT

- attractive dark green colour, very upright growth with a thick stem
- variety multi-purpose
- remains uniform even after several cuts
- ideal for forcing

Item No.: 058095NS

Item No.: 058095BS



POLYVIT

- fine green stem
- suitable for pot and open-field production
- fast growth

Item No.: 058103NS








DOLORES



- a leading variety, very vigorous and stable variety
- uniform, upright growth
- best medium coarse quality for pots


Item No.: 058213NS

PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
DIVONNE 												
FITLAU												
MARLAU F1												
POLYSTAR 												
POLYUP												
POLYREX 												
POLYVERT												
POLYVIT 												
DOLORES 												

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
DIVONNE												
FITLAU												
MARLAU F1												
POLYSTAR 												
POLYUP												
POLYREX 												
POLYVERT												
POLYVIT												
DOLORES												

VARIETY	Organic	Colour	Speed	Leaf thickness	Leaf position	Comments	Resistances
DIVONNE		Medium green	+	Medium	Upright	Good quality for forcing	-
FITLAU		Medium dark green	+	Medium	Upright	Excellent quality for transport	-
MARLAU F1		Intense dark green	++	Medium	Extremely upright	-	Robust against Allium Rust
POLYSTAR		Dark green	++	Medium	Upright	Strong against yellow tips	-
POLYUP		Dark green	++	Coarse	Extremely upright	Highest yield, big leaves	Robust against Allium Rust
POLYREX		Dark green	++	Medium	Extremely upright	New type for pot production	-
POLYVERT		Green	+	Medium	Upright	All-rounder	-
POLYVIT		Green	++	Fine	Upright	Fast, early in pots	-
DOLORES		Intense dark green	+	Medium	Upright	Best medium coarse quality for pots	Very robust against yellow leaf tips



for Northwest European climatic conditions
 sowing  harvesting

for Southwest European climatic conditions
 sowing  harvesting

++ = very fast + = fast o = medium - = low

CORIANDER

Coriandrum sativum

TSW	3 - 4 g
SOIL	Loose, heat retaining soils, pH 6.5 to 7.2; cultivation break : at least 3 years
GERMINATION TEMPERATURE	20 °C; minimum 10 °C
CULTIVATION TEMPERATURE	16 °C - 20 °C
CLIMATE	Growth stops below 10 °C; sensitive to frost, bolting in the summer
SOWING DEPTH	1 cm; dark germination
SOWING DENSITY : 10 - 12 CM POTS	35 plants per pot
SOWING DENSITY : FIELDS	6 kg per ha (2.5 million to 3 million plants per ha); row spacing : 25 cm, 100 plants per running metre
SEEDERS	Single grain seeder (F.e., Miniair, Gaspardo); sowing in rows (Sembdner); seed bed (Ortomec); drum seeder (Fliersystems)
FERTILISATION	Plant mass : 18 dt/ha; setpoint : 80 - 100 kg N/ha; 80 kg P2O5/ha; 180 kg K2O/ha
GROWING GUIDE	Requires warm conditions, drought stress causes flower induction, but sensitive to water logging; irrigation is necessary for germination
CULTIVATION	Open fields : 85 days; greenhouse/pots : 40 days; additional lighting in the winter
PESTS	Aphids (Aphidina), snails
DISEASES	Pseudomonas, Alternaria dauci
HARVEST	Yield : 1.5 kg/m ² ; harvesting is done by hand or special machines





ATLAS®

- very dark green variety, upright and robust with high-yield
- slow bolting
- for greenhouse and open field cultivation

Item No.: 058254NS



EAGLE®

- slow bolting type
- fairly compact plant
- small, dark-green leaves
- fresh / industry

Item No.: 058112NS



SHANGHAI




- very compact, remarkable upright type for pot cultivation from August until March
- excellent taste
- suitable for fresh cut in hydroponic systems - makes exceptional high yields
- less recommended for open field production


Item No.: 058268NS

VARIETY	Colour	Speed	Leaf thickness	Leaf position	Comments	Resistances
ATLAS®	Intense dark green	++	Large	Upright	Best yield	IR: Pseudomonas
EAGLE®	Dark green	+	Medium	Upright	Compact plant	Slow bolting
SHANGHAI	Intense dark green	-	Fine	Upright	Ideal for pots, upright growing	-


PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ATLAS®												
EAGLE®												
SHANGHAI 												

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ATLAS®												
EAGLE®												
SHANGHAI 												

®registered trademark

for Northwest European climatic conditions
 sowing  harvesting

for Southwest European climatic conditions
 sowing  harvesting

++ = very fast + = fast o = medium - = low

DILL

Anethum graveolens

TSW	1 - 2 g
SOIL	Medium heavy soils with high humus levels, pH 6.0 to 7.0; cultivation break : at least 4 years
GERMINATION TEMPERATURE	18 °C - 24 °C; minimum 6 °C
CULTIVATION TEMPERATURE	17 °C - 20 °C
CLIMATE	Growth stops below 10 °C; sensitive to frost
SOWING TIME	March - July
SOWING DEPTH	2 cm; dark germination
SOWING DENSITY : 10 - 12 CM POTS	45 plants per pot
YOUNG PLANTS	7 seeds per 4 cm pot
SOWING DENSITY : FIELDS	8 kg per ha (5 million plants per ha); row spacing : 30 cm
SEEDERS	F.e. Single grain seeder (Miniair, Gaspardo); sowing in rows (Sembdner); seed bed (Ortomec); drum seeder (Fliersystems)
FERTILISATION	Plant mass : 300 dt/ha; setpoint : 80 kg N/ha; 30 kg P2O5/ha; 200 kg K2O/ha; 10 kg Mg/ha
GROWING GUIDE	Irrigation is necessary, starts to bolt quickly during dry conditions; continuous water supply supports leaf growth
CULTIVATION	Open field : 9 weeks; pots : 7 weeks
PESTS	Aphids, nematodes, bugs
DISEASES	Powdery mildew, Rust fungi, Pseudomonas, Fusarium, Itersonilia
HARVEST	Up to four cuts in a season are possible; yield: about 15 - 20 t/ha per cut; harvesting is done by hand or with special machines. Minimal distance of about 6 cm to the bottom must be kept. Storage temperature : 0 - 4 °C with high humidity



DIANA

- a very upright and stable selection
- dark, blue green colour and very leafy
- compact growth habit, especially robust against bolting
- fresh / industry

Item No.: 058613NS



DUKAT

- dark green, late bolting variety which can be harvested over an extended period
- suitable for year-round cultivation
- excellent for open field production
- fresh / industry

Item No.: 058013NS



HERA

- very late bolting, upright growth habit with much leaf mass
- suitable for the fresh market and industry
- performs well in Southern European climates for autumn winter production

Item No.: 058024NS
Item No.: 058024BS



THALIA

- all-round variety for all sectors of cultivation
- very dark green, late bolting with high yields
- flexible, uniform and robust
- fresh / industry

Item No.: 058023NS

Item No.: 058023BS



LENA



- very dark green, upright variety
- suitable for pot cultivation as well as for cutting in spring and autumn
- roughly feathered

Item No.: 058255NS

PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
DIANA												
DUKAT												
HERA												
THALIA												
LENA												

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
THALIA												
DIANA												
HERA												
DUKAT												
LENA												

VARIETY	Organic	Colour	Speed	Uniformity	Leaf thickness	Leaf position	Comments	Resistances
DIANA		Dark green	+	+	Normal	Fine	Robus against bolting	IR: Itersonilia
DUKAT		Green	o	o	Normal	Fine	Flexible	-
HERA		Dark green	++	+	Upright	Fine	Good for autumn production	IR: Itersonilia
THALIA		Intense dark green	+	++	Compact	Fine	Good allrounder	-
LENA		Dark green	++	++	Coarse	Extremely upright	Outstanding in pot production	-

for Northwest European climatic conditions
 sowing harvesting

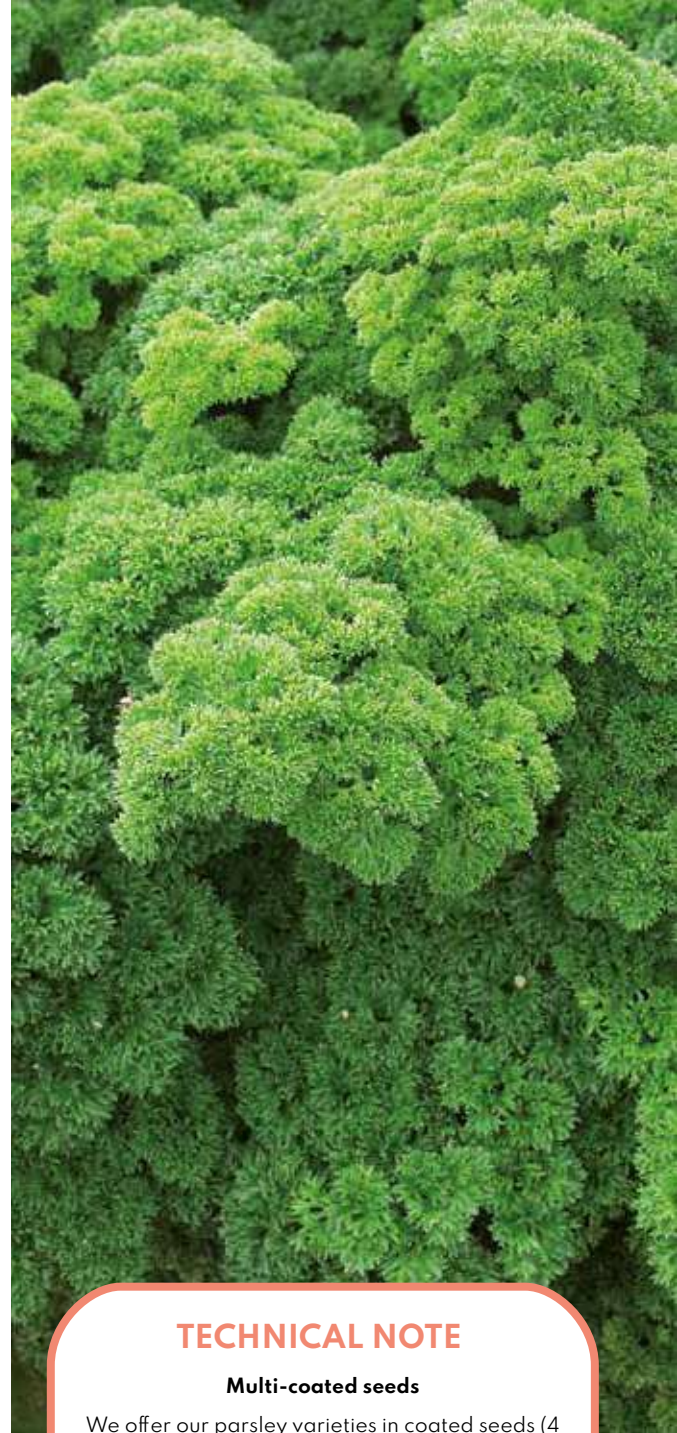
for Southwest European climatic conditions
 sowing harvesting

++ = very high + = high o = medium - = low

PARSLEY

Petroselinum crispum (Miller) Nyman ex A. W.

TSW	1 - 1.5 g
SOIL	Clay and silty sand, pH 6.0 to 7.0; cultivation break : at least 3 years
GERMINATION TEMPERATURE	18 °C - 25 °C; minimum 3 °C
CULTIVATION TEMPERATURE	17 °C - 20 °C
CLIMATE	Avoid high temperatures (>29 °C) that affect the germination; robust against frost
SOWING TIME	February - June
SOWING DEPTH	2 cm; dark germination
SOWING DENSITY : 10 - 12 CM POTS	40 plants per pot
YOUNG PLANTS	10 seeds per 4 cm pot
SOWING DENSITY : FIELDS	4 kg (fresh market) to 9 kg (industry) to per ha; row spacing : 30 cm, about 100 plants per running metre
SEEDERS	Single grain seeder (Miniair, Gaspardo), sowing in rows (Sembdner); seed bed (Ortomec); drum seeder (Fliersystems)
FERTILISATION	Plant mass : 350 dt/ha; setpoint : 150 kg N/ha; 30 kg P2O5/ha; 170 kg K2O/ha; 10 kg Mg/ha
GROWING GUIDE	Irrigation urgently needed to avoid crusting of the soil (primed seed shortens the critical germination phase of 8 days), after germination mech. weeding is necessary
CULTIVATION	Spring : 110 days, second cut : 40 days; summer : 85 days, second cut : 30 days; overwintering : 260 days (drilling in August); greenhouse/pots : 50 days
PESTS	Carrot fly, aphids, caterpillars
DISEASES	Downy mildew, Septoria, Powdery mildew, Pythium, Fusarium, Botrytis
HARVEST	Up to four cuts in a season are possible; yield : about 20 t/ha per cut; harvesting is done by hand or with special machines. Storage temperature : 4 °C with high humidity



TECHNICAL NOTE

Multi-coated seeds

We offer our parsley varieties in coated seeds (4 to 4.5 mm in diameter) of 8 to 10 seeds to make sowing in clods easier.

Pre-germinated seeds

Pre-germinated seeds are the result of technological progress that facilitates germination and germinative capacity. This process ensures faster, more uniform emergence, particularly in difficult periods at the start of the season and in summer for direct sowing and in all seasons for clod sowing. As a dry process, these seeds can be kept for around 3 months at 5°C.



CURLED



AFRODITE

- dark variety with quick development
- ideal for year-round pot cultivation
- strong, upright, homogeneous in colour and leaf shape
- long keeping quality in pots because of compact growth

Item No.: 047014NS
Item No.: 047014BS



DARKI

- very dark selection of type "Moss Curled"
- easy to harvest due to the extremely upright leaves, excellent shipper
- suitable for cultivation in pots, for the fresh market and industry
- remarkable for autumn / winter production in Southern European climates

Item No.: 047017NS



GRÜNE PERLE

- all-round variety for open field and pot cultivation
- very suitable for overwintering in early spring because of its low tendency to bolt

Item No.: 047003NS
Item No.: 047003BS



LISETTE

- selection of type 'Moss Curled', finely curled, fresh green colour
- very rapid growth in milder climates
- very good results in overwintering
- robust against bolting, very suitable for pot cultivation

Item No.: 047022NS



STARLETT





- excellent suitability for open field and pot cultivation
- heavy, densely filled leaf cushions on strong stems
- robust 'Moss Curled' type with medium rough, curled leaves
- very good shelf life after harvest

Item No.: 047015NS

VARIETY	Organic	Curled / Smooth	Colour	Curliness or leaf size	Yield / Speed	Bolting resistance	Comments
AFRODITE		Curled	Dark green	Fine	o	--	Fast and nicely curled in pots
DARKI		Curled	Intense dark green	Medium	+	--	Perfect colour, stays compact in pots
GRÜNE PERLE		Curled	Green	Medium	+	++	All-rounder
LISETTE		Curled	Green	Medium	++	++	All-rounder
STARLETT		Curled	Dark green	Medium	o	+	Best combination of colour and speed

++ = very high + = high o = medium - = low

PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AFRODITE 												
DARKI 												
GRÜNE PERLE 												
LISETTE 												
STARLETT												

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AFRODITE												
DARKI												
GRÜNE PERLE												
LISETTE												
STARLETT												

FLAT



GIGANTE D'ITALIA HILMAR

- robust, dark green parsley for cutting
- intensely aromatic
- large and smooth-leaved, on strong stems
- high yield

Item No.: 047040NS
Item No.: 047040BS



LAICA

- Gigante d'Italia type with large dark green leaves
- for the fresh market and industry
- for highest yields
- good regeneration capacity
- remains homogeneous after several cuts
- IR: Sp. Intermediate resistance to septoria

Item No.: 047042NS
Item No.: 047042BS



LAURA

- excellent selection, flat-leaved variety: very dark green colour, smooth, fine, small leaves
- upright growth
- suitable for cutting and pot cultivation
- possible for overwintering in open field in milder climates

Item No.: 047008NS



GIGANTE D'ITALIA

- standard selection
- uniform
- productive

Item No.: 047002BS



GIGANTE D'ITALIA SPLENDID

- for the fresh market and industry
- very homogeneous selection
- medium height and great colour
- very productive

Item No.: 047010BS

for Northwest European climatic conditions
 sowing  harvesting

for Southwest European climatic conditions
 sowing  harvesting

DIVERSIFICATION



LION

- 'Gigante d'Italia' type with good durability in fields
- an ideal combination of large leaves with compact, very stable and upright stems
- suitable for the fresh market and industry
- good field performance.
- HR: Pp. Mildew resistant

Item No.: 047043NS



MENUETTE

- unique variety shape with a parsley taste
- can be grown in field or in pot
- leaves like dill
- strong in autumn, long harvest
- winner of culinary contests

Item No.: 047041NS

VARIETY	Organic	Curled / Smooth	Colour	Curliness or leaf size	Yield / Speed	Bolting resistance	Comments	Resistances
GIGANTE D'ITALIA HILMAR		Smooth	Green	Medium	-	--	All-rounder	-
LAICA		Smooth	Dark green	Large	+	--	Highest yield with large leaves	IR: Septoria
LAURA		Smooth	Intense dark green	Small	++	++	Fast	HR: Downy Mildew
GIGANTE D'ITALIA		Smooth	Green	Medium	-	--	All-rounder	-
SPLENDID		Smooth	Green	Medium	+	+	Homogeneous	-
LION		Smooth	Intense dark green	Large	++	o	Perfect combination between yield and self life	HR: Downy Mildew
MENUETTE		Curled	Dark green	Fine	o	--	Leaves like dill	-

PRODUCTION CALENDAR - For northwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
GIGANTE D'ITALIA HILMAR												
LAICA												
LAURA												
GIGANTE D'ITALIA												
SPLENDID												
LION												
MENUETTE												

PRODUCTION CALENDAR - For southwest European climatic conditions

VARIETY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
GIGANTE D'ITALIA HILMAR												
LAICA												
LAURA												
GIGANTE D'ITALIA												
SPLENDID												
LION												
MENUETTE												

for Northwest European climatic conditions
 sowing harvesting

for Southwest European climatic conditions
 sowing harvesting

++ = very high + = high o = medium - = low

ROCKET

TSW	0,5 - 1g
SOIL	Loamy, rich, well drained soil, pH 6 - 7
GERMINATION TEMPERATURE	15 - 25°C
CULTIVATION TEMPERATURE	15 - 20° C
CLIMATE	Full sun, part shade
SOWING TIME	All year round in greenhouses open field from March till End August
SOWING DEPTH	5 mm
SOWING DENSITY : 10 - 12 CM POTS	20 - 30 plants
SOWING DENSITY : FIELDS	Row spacing approx 25 cm between rows, 100 plants per running meter
FERTILISATION	Approx 125kg N, 150 kg P2O5, 100 kg K2O per ha
GROWING GUIDE	Irrigation recommended, too much stress accelerate bolting
CULTIVATION	Harvesting about 4 -7 weeks after sowing, 2 cuts are possible
PESTS	Cabbage looper, flea beetles, aphids
DISEASES	Powdery mildew, bacterial leaf spot
HARVEST	Approx 3 -5 weeks after harvest, depending on needed product

TECHNICAL NOTE

We are working on the rocket species to bring you greater yield, tolerance to bolting and mildew. Good behavior with regard to these three elements is essential to the success of our varieties.

ROCKET (*Eruca vesicaria subsp sativa*)



VENETIA

- selection of type "*Eruca sativa*" with the serrated leaf shape of wild rocket very quick growth
- especially recommended for late autumn, winter and spring cultivation

Item No.: 05462INS

WILD ROCKET (*Diplotaxis tenuifolia*)



IRIS

- quick growing Wild Rocket type
- attractive green leaves, with high yield
- for all year production
- strong against Mildew

Item No.: 054631NG

Item No.: 054631BG



MONTANA

- robust, dark green variety with finely feathered leaves
- intense flavour

Item No.: 05462ONS



TOSCANA

- predestined for summer cultivation due to its late flowering
- considerably longer keeping quality on the field with uniform growth
- dark green, serrated leaf with a slightly broader blade and therefore a higher yield per unit area

Item No.: 054619NS



ROMA

- robust, dark green type with strongly toothed leaves

Item No.: 054641BS

GARDEN CRESS

Lepidium sativum

TSW	1,5 - 2,5 g
SOIL	Sown on paper or coconut mats, or substrate
GERMINATION TEMPERATURE	>20°C
CULTIVATION TEMPERATURE	18 - 23°C
SOWING TIME	All year
SOWING DEPTH	Uncovered
SOWING DENSITY : 10 - 12 CM POTS	Very dense
SOWING DENSITY : FIELDS	60 - 80 g / m ²
FERTILISATION	Not needed
GROWING GUIDE	Cultivation time approx 1 - 2 weeks
CULTIVATION	In pots or small bowls in greenhouses/tunnels
PESTS	Alternaria, Botrytis
DISEASES	Botrytis, Alternaria
HARVEST	Product sold directly in pots, or hand cut

CRESSON SIMPLE LEAVED



CRESSO

- common cress, germinates very fast and uniform
- best for production in cress trays
- all year-round production

Item No.: 029003NS

Item No.: 029003BS

CRESSO BROAD LEAVED CRESS



PRESTO

- quick, uniform growing cress with broad leaves
- suitable for cut, keeps longer fresh
- fresh, slightly spicy taste
- all year-round production
- stable and upright

Item No.: 029006NS



ADDITIONAL HERBS

BORAGE BLUE *Borago officinalis*

TSW	15 - 30 g
Germination temperature	> 22°C
Cultivation temperature	20°C
Sowing	Open field: April - June Seed rate (g/100m ²): 500 150 g per 1000 pots
Density	Row/plant Spacing (cm): 30/20 - 25 Plant per pot (10-12 cm): 20
Advice	Half-shade or full sun exposure
Harvest	Flowers and leaves. May to October
Use	In salads, cooked like spinach, as an infusion, nice as edible flower



BORAGE BLUE

- height: 30 - 50cm
- fleshy and oval leaves
- blue-violet flowers
- best for sunny, open exposure
- annual

Item No.: 058071NS
Item No.: 058071BS



CHERVIL *Anthriscus cerefolium* (L.) Hoffm.

TSW	2 - 2.5 g
Germination temperature	18-22°C - Light germinator
Cultivation temperature	20°C
Sowing	Open field: March - April Seed rate (g/100m ²): 150 50 g per 1000 plants Direct sowing: 5 kg per ha, 2 - 3 cm deep.
Density	2 cm in a row/plant Spacing (cm): 20 Plant per pot (10-12 cm): 35-40
Advice	Half-shade exposure
Harvest	Leaves before flowering
Use	Aromatic, herb, for soups and sauces



CHERVIL FRISE FIN

- height: 20 - 40 cm
- green curly foliage
- very fragrant
- good for pod production as well as
for open field
- annual

Item No.: 058081NS
Item No.: 058081BS



CHERVIL MASSA

- height: 30-40 cm
- flat and dark leaves, intense flavour
- robust against bolting
- winter type, good behaviour in cold
conditions
- uniform, high yield
- annual

Item No.: 058080NS

CHINESE CHIVES *Allium tuberosum*

TSW	3 g
Germination temperature	15 - 25°C
Cultivation temperature	17 - 24°C
Sowing	Possible all year round. 40 to 60 g per 1000 cups 6 - 8 kg /ha are for direct seeding.
Density	10-15 x 25-35 cm.
Advice	Sunny exposure, tolerates some shade.
Harvest	Leaves. Be sure to cut regularly before flowering, to encourage regrowth.
Use	Aromatic



SHIVA

- mild garlic taste
- flat, dark-green leaves about 30 cm long
- good resistance to rust, mildew and yellow tips
- can be forced in winter, biennial

Item No.: 058265NS

FENNEL <i>Foeniculum vulgare</i> Miller	
TSW	4-6 g
Germination temperature	20-22°C
Sowing	Seed rate (g/100m ²): 40 - 60 g Open field: March - June Direct sowing: 40g / 100m ² 10g for 1000 plants 20g for 1000 pots
Density	Row/plant Spacing (cm): 40 Plant per Pot (10-12 cm): 25
Harvest	Yellow stems and leaves, seeds.
Use	Cooking, decoration, infusion...



FENNEL COMMON (BITTER)

- height: 80 - 150 cm
- round, hairy green leaves
- intense flavour
- annual

Item No.: 058125NS

Item No.: 058125BS

HYSSOP <i>Hysopus officinalis</i>	
TSW	0.9 - 1.2 g
Germination temperature	18-22°C - Light germinator
Cultivation temperature	16°C
Sowing	Seed rate (g/100m ²): 80 Open field: March-April
Density	Row/plant Spacing (cm): 50 - 30 cm Plant per pot (10-12 cm): 25
Advice	Good for sunny places. Flowers attract bees and insects
Harvest	Harvest leaves, before blooming starts
Use	Infusion, syrup, essential oil...



HYSSOP

- height: 60 - 100 cm
- small, dark green leaves
- biennial

Item No.: 058128NS

Item No.: 058128BS

LEMON BALM <i>Melissa officinalis</i>	
TSW	0.5-0.8 g
Germination temperature	>22°C - Light germinator
Cultivation temperature	18-20°C
Sowing	Seed rate (g/100m ²): 80 Open field: May 5g for 1000 plants
Density	Row/plant Spacing (cm): 30/40 Plant per Pot (10-12 cm): 20 30 x 50 cm
Advice	Full sun intensifies the taste
Harvest	Leaves before flowering
Use	Aromatics, infusions, pots, cooking



LEMON BALM

- height: 40-60 cm
- oval green leaf, toothed and hairy
- lemon flavour
- very melliferous plant
- biennial

Item No.: 058145NS

Item No.: 058145BS

LOVAGE <i>Levisticum officinalis</i>	
TSW	2-5 g
Germination temperature	20°C
Cultivation temperature	18°C
Sowing	Seed rate (g/100m ²): 80 Open field: April-May direct sowing 50 g for 1000 pots
Density	Row/plant spacing (cm): 50/4 - 50 Plant per Pot (10-12 cm): 20
Advice	Half shade or full sun exposure.
Harvest	Leaves, stems.
Use	Aromatics, in salads, infusions.



LOVAGE

- aromatic herb used in salads, infusions and culinary preparations
- height: approx. 150 cm
- fine leaves
- biennial

Item No.: 058005NS

Item No.: 058005BS

MARJORAM <i>Origanum majorana</i>	
TSW	0,2 - 0,3 g
Germination temperature	15 - 20 °C
Cultivation temperature	17 - 20 °C
Sowing	April to May for direct sowing in open field, avoid frost Light germinator 6 - 10 kg seeds/ ha 50 g / are for direct sowing , pH 6 - 7 Fertilizer: 98 kg N, 26 kg P2O5, 109 kg K2O, 5,5 kg MgO
Density	20 x 30 cm
Advice	Full sun exposure. Dry, alkaline soil.
Harvest	1-3 harvests, cut 5 cm above soil, to push regrowth. For essential oil production, harvest plants when fully blooming.
Use	Aromatics, infusions, essential oils, leaves



MARJORAM MARCELKA

- medium strong growth
- medium green stems
- oval leaves, medium grey green
- white flowering
- high content of essential oil- and cis-Sabinenhydrat

Item No.: 058127NS

MINT <i>Mentha</i>	
TSW	0.05 g
Germination temperature	20-22°C - Light germinator
Cultivation temperature	20°C
Sowing	Seed rate (g/100m ²): 50 Open field: May 1g for 1000 plants
Density	Row/plant spacing (cm): 30/30 Plant per pot (10-12 cm): 35
Advice	Medium sun exposure. Moist, well-drained soil
Harvest	Leaves
Use	Aromatic, syrup, salad, drink, decoration, infusion



MINT SPICATA

- Mentha spicata* L.
- a refreshing fragrance with a spicy aftertaste
- height : 30-50 cm
- perennial

Item No.: 058151NS

Item No.: 058151BS



MINT PEPPERMINT

- Mentha piperata*
- a bergamot-scented variety
- height: 40 cm
- perennial

Item No.: 058150NS

OREGANO <i>Origanum vulgare</i>	
TSW	0.1 g
Germination temperature	20°C - Light germinator
Cultivation temperature	20°C
Sowing	Seed rate (g/100m ²): 40 Open field: April 1g for 1000 plants 3g for 1000 pots
Density	Row/plant spacing (cm): 25/25 Plant per pot (10-12 cm): 30
Advice	Full sun exposure. Rich, dry, alkaline soil.
Harvest	Young leaves before flowering.
Use	Aromatics, infusions, essential oils...



OREGANO GREEK

- oval, green leaves
- white flowering
- biennial, but sensitive to frost

Item No.: 058156NS

Item No.: 058156BS



OREGANO

- height: 30 - 40 cm
- very aromatic
- good winter hardiness
- purple flowering
- biennial

Item No.: 058155NS

Item No.: 058155BS

WINTER PURSLANE <i>Claytonia perfolata</i>	
TSW	0.5 g
Germination temperature	10 - 15°C
Cultivation temperature	10 - 20°C
Sowing	Sowing density in greenhouses approx. 6 cm between the rows, 1cm in rows. Planting: 4 cm pots in 10 x 15 cm distance
Density	10 to 15 cm x 25 to 30 cm
Advice	Cut leaves before blooming
Harvest	40 to 90 days after sowing
Use	Raw in salads or cooked like spinach



CLAYTONE DE CUBA

- salad vegetable, harvest in winter for cultivation in open fields, boxes or unheated greenhouse
- greenhouse, similar to corn salad
- grows again after the first cut

Item No.: 025500NS

SUMMER PURSLANE <i>Portulaca oleracea sativa</i>	
TSW	0,5 - 0,7 g
Germination temperature	18 - 25°C pH 6 - 7
Cultivation temperature	15 - 25°C
Sowing	From January, in the greenhouse until August 5 kg/ha 25-50 kg/ha as baby leaves Light germinator
Density	12 to 15 cm x 20 to 25 cm
Advice	Store harvested plants at 0 - 1°C with high humidity.
Use	Salad, in omelet, as a condiment...



PURSLANE

- attractive selection with dark green leaves

Item No.: 052502NS

ROSEMARY <i>Rosmarinus officinalis</i>	
TSW	0.7 - 1.3 g
Germination temperature	18-22°C
Cultivation temperature	18°C
Sowing	Seed rate (g/100m ²): Open field: May 10g for 1000 plants
Density	Row/plant spacing (cm): 40/30
Advice	Protect plants in extreme cold. Pinch the plant once or twice for better branching
Harvest	Preferably leaves and twigs before flowering
Use	Aromatics, essential oils, infusions



ROSEMARY

- fairly fine green foliage
- blooms rather late
- height: 60 - 100 cm
- biennial

Item No.: 058175NS

Item No.: 058175BS

RUSSIAN TARRAGON <i>Artemisa dracuncul</i>	
TSW	0.2 g
Germination temperature	18-20°C - Light germinator
Cultivation temperature	18°C
Sowing	Seed rate (g/100m ²): 50 Open field: March-April
Density	Row/plant spacing (cm): 50/50 Plant per pot (10-12 cm): 20
Advice	Sunny exposure, perennial, but sensitive to frost.
Harvest	Pinch the plant 1 or 2 times for better branching and later flowering. Pick young leaves.
Use	Aromatic, vinegar, infusion



RUSSIAN TARRAGON

- more productive, robust and vigorous, but less aromatic than French tarragon
- height: 90 cm
- biennial

Item No.: 058124NS

Item No.: 058124BS

SAGE <i>Salvia officinalis</i>	
TSW	5-7 g
Germination temperature	18-22°C - Light germinator
Cultivation temperature	18°C
Sowing	Seed rate (g/100m ²): 150 Open field: May Direct sowing: 100g/100m ² 20g for 1000 plants
Density	Row/plant Spacing (cm): 30/40 Plant per Pot (10-12 cm): 35
Advice	Full sun exposure. Light, dry, alkaline, well-drained soil.
Harvest	Leaves. Sage only reaches its full aroma in its second year.
Use	Infusion, aromatic, cosmetics, decoration...



SAGE CERES

- thick vibrant green
- very fragrant
- height: 30-35 cm
- good for fresh cut and pot production
- hairy leaves, 5 cm long, 1.5 cm wide, high content of essential oils
- biennial

Item No.: 058271NS

Item No.: 058271BS

SORREL	
TSW	0.8 - 1 g
Germination temperature	16-22°C
Cultivation temperature	8-15°C
Sowing	Seed rate (g/100m ²): 200 Open field: March-May 25g for 1000 plants
Density	Row/plant spacing (cm): 25/10 Plant per pot (10-12 cm): 25 30 x 50 cm
Advice	Moist, well-drained soil. Rich in iron.
Harvest	Young leaves
Use	Salad, cataplasm, culinary preparation, infusion...



SORREL DE BELLEVILLE

- *Rumex acetosa* var. *hortensis*
- slow to bolt
- height: 20 - 40 cm
- fresh and aromatic flavour
- biennial

Item No.: 05816ONS



SORREL RED SCARLET

- *Rumex sanguineus*
- optimal harvest 4 weeks after sowing
- good for microgreen and babyleaf production
- height: 20 - 30 cm
- green leaves with deep red veins
- fast growth
- biennial

Item No.: 039527BS



SUMMER SAVORY <i>Satureja hortensis</i>	
TSW	0.5 - 0.8 g
Germination temperature	20-25°C - Light germinator
Cultivation temperature	18°C
Sowing	Seed rate (g/100m ²): 100 Open field: April-June 5 g per 1000 plants
Density	Row/plant spacing (cm): 20 - 30/25 Plant per pot (10-12 cm): 30 25 x 50 cm
Advice	Full sun exposure
Harvest	Leaves when flower buds appear and flowering tops
Use	Aromatic, infusion, antiseptic...



SUMMER SAVORY

- compact plant
- white-mauve flowers in summer
- less bitter flavour than perennial savory
- height: 30-50 cm
- annual

Item No.: 058185NS

Item No.: 058185BS



SUMMER SAVORY COMPACT

- remarkable, compact growth, ideal for pot cultivation
- annual

Item No.: 058270NS



WINTER SAVORY VIVACE (SATUREJA MONTANA)

- very compact growth, well-scented plant
- good for pot production and fresh market
- height : 25 - 35 cm
- cut before plants start flowering
- excellent taste, good for seasoning beans, pickling cucumbers our soups
- biannual

Item No.: 058186NS

Item No.: 058186BS

THYME <i>Thymus</i>	
TSW	Serpolet: 0.2 - 0.3 g Winter: 0.15 g
Germination temperature	Serpolet: 18-20°C Winter: 18-22°C Light germinator
Cultivation temperature	Serpolet: 18°C Winter: 18-20°C
Sowing	Seed rate (g/100m ²): Serpolet: 100 - Winter: 80 Open field: April-May 2g for 1000 plants Direct sowing: 7g/100m ²
Density	Row/plant spacing (cm): 35 - 45/20 - 25 Plant per pot (10-12 cm): 25
Advice	Full sun exposure
Harvest	Light, well-drained soil, preferably alkaline. Leaves picked and stems before flowering.
Use	Aromatic, bouquet garni.



THYME WINTER

- Thymus vulgaris*
- height: 30 cm
- very strong taste
- ideal variety for the fresh market
- medium-green colour, late flowering
- red underside of leaves, compact
- biennial

Item No.: 058195NS

Item No.: 058195BS



THYME SERPOLET

- height: approx. 20 cm
- strong aroma
- wilder than *Thymus Vulgaris*
- tolerant to cold conditions
- biennial

Item No.: 058196NS

RESISTANCES

The relationship between a plant and a pest is very complex. The terms that describe the reaction of a plant variety to a pest are determined by tests with known and characterized biotypes, pathotypes, races or strains of the pest in question. In practice however, the ability of a pest to cause disease in or damage to a plant depends on environmental conditions, the properties of the organism itself and the capacity of the plant to defend itself. Plant varieties within a species can differ in their ability to defend themselves. Under different conditions, such as age of the plant, pest pressure and degree of virulence or adverse environmental conditions, the interaction between the same plant variety and pest may have different outcomes. Pests are known to develop and form new biotypes, pathotypes, races or strains that can cause disease in or damage to plants that remain unaffected by the original form of the pest.

IMMUNITY is when a plant is not subject to attack or infection by a specified pest.

RESISTANCE is the ability of a plant variety to restrict the growth and/or development of a specified pest and/or the damage it causes when compared to susceptible plant varieties under similar environmental conditions and pest pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest pressure.

Two levels of resistance are defined.

HIGH RESISTANCE (HR) plant varieties that highly restrict the growth and/or development of the specified pest and/or the damage it causes under normal pest pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest pressure.

INTERMEDIATE RESISTANCE (IR) plant varieties that restrict the growth and/or development of the specified pest and/or the damage it causes but may exhibit a greater range of symptoms or damage compared to high resistant varieties. Intermediate resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest pressure.

SUSCEPTIBILITY is the inability of a plant variety to restrict the growth and/or development of a specified pest.

Note

The resistances specified in the catalogue are based on the current level of knowledge at the time of printing. A break of resistances by the respective plant pathogens, however, cannot be excluded.

BASIL

Pbb Peronospora Belbahrii
Fob Fusarium oxysporum

PARSLEY

Pp Plasmopara petroselini
Sp Septoria petroselini

DILL

IP Itersonilia perplexans

Abbreviation	Pathogen	English name	Scientific name	Species affected
IP	Fungus	Itersonilia	Itersonilia perplexans	Dill
Fob	Fungus	Fusarium	Fusarium oxysporum basilici	Basil
Pbb	Fungus	Downy mildew	Peronospora Belbahrii	Basil
Pp	Fungus	Downy mildew	Plasmopara petroselini	Parsley
Sp	Fungus	Septoria	Septoria petroselini	Parsley

1. Preamble

These terms of sale, in accordance with professional regulations and national and international practices, explicitly apply, unless there are specific agreements, to all our sales, and in particular to sales made to horticulturists, market gardeners, vegetable growers, seedling growers, nurseries, conservationists, processors, local authorities, groups, dealers, landscape architects, golf courses, etc. The act of placing an order implies the acceptance of the terms of sale shown in our catalogue or in any other commercial document from our Company.

Prior information regarding possible risks of certain vegetables for your health.

In accordance with article L. 1338-3 of the French Public Health Code, all distributors or vendors of vegetables likely to harm human health are obliged to inform the purchaser, prior to all sales, of any risks to human health and, if necessary, means of prevention. Certain vegetables, explicitly listed in the annex of the decree from 4 September 2020, may potentially cause food poisoning when consumed, respiratory allergies, mucocutaneous reactions or unusual skin irritations when exposed to the sun. These risks, precautions and/or measures to be taken if needed, are presented in the following document: <https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000042325453>. By accepting the present sales terms, the purchaser acknowledges having been duly informed, prior to the sales, of any health risks possibly linked to the purchasing of the aforementioned vegetables.

2. Prices

The prices are those which are determined by our price lists valid on the date of the order. They are understood to be exclusive of tax and of packaging and transport costs.

They may be amended without prior notification at any time and are established subject to any major changes in the economic conditions.

The prices given for the various products apply when these are ordered in one individual order and per delivery.

The price given in a column applies as from the quantity shown at the top of that column.

The minimum value per order line is 5.-€. In case of a lower value than 5.-€ caused by ordering a small quantity, the minimum fee of 5.-€ will be charged.

We deliver in the most economical packaging available at the time of delivery.

In the event of an order in specific packaging, an additional charge may be agreed per packaging for its manufacture.

3. Transport and packaging costs

For every order, we will invoice, in addition to the goods, a fixed sum corresponding to the costs of preparation and shipment of the seeds, in accordance with our valid price lists.

4. Orders

Orders are carried out as far as it is possible to do so.

Deliveries will be made depending on supplies and availabilities. They may be in full or in part.

In the event of an insufficient crop or no crop at all, due to weather disruptions and any kind of cultivation incidents, a partial or total reduction will be applied to the order.

No compensation may be claimed by the purchaser as a result.

The transactions which our Sales Force deals with do not commit us until after confirmation by our Company via an order acknowledgement (ARC in French).

We can only make the delivery if the purchaser is up to date in terms of all his/her debts to the Company, whatever the cause of these may be.

The lead time is given for information purposes and without any guarantee.

5. Order cancellation

Any cancellation, in full or in part, of an order for seedlings on the part of the customer less than 6 weeks before delivery leads ipso jure to a compensation payment set at 50% of the value of the cancelled order, without Graines VOLTZ needing to provide proof that it has suffered a loss due to this cancellation. However, if the products involved in the cancelled order cannot be sold, Graines VOLTZ reserves the right to the option of demanding full compensation for the loss suffered.

6. Shipment / delivery and risks

Our goods are transported at the recipient's own risk, whatever mode of transport is invoiced. They are carefully examined before being packed and handed over to the haulier, who will have issued us with a receipt for the shipment.

We ask our customers to:

- unpack and check the contents of the shipment before confirming acceptance from the haulier, especially when this involves young seedlings. We remind them that they must only accept their parcels after making sure that they are in good condition, that their weight corresponds properly to the one notified and that the seals are completely intact.

- write any justified reservations on the delivery note, transport damage, loss, anything missing or delays, etc. These reservations must be confirmed within 48 hours to the haulier, with Acknowledgement of Receipt, in order to get compensation, and a copy must be sent to our Company.

The purchaser must specify and justify the nature of his/her complaint, reservation or challenge, and also describe the products which were the subject of this complaint, reservation or challenge, in terms of quantity, quality and price. The purchaser must provide all evidence as to the actual existence of the defects observed. Graines VOLTZ reserves the right to carry out any investigation or verification on site, either directly or through an authorised agent. As a result, the purchaser is obliged to keep the products involved and must give Graines VOLTZ or its authorised agent every assistance in carrying out the above-mentioned investigations and verifications.

7. Payments

All payments are to be sent to the head office in Colmar. No discount is given for advance payment. Our payment terms are normally 30 days. The due date is shown on every invoice. In the event of the due date being exceeded, delay penalties are due, without any reminder being needed, at the ECB interest rate with a 10 point increase. Moreover, for any late payment, as of right, and with no prior notification required, an indemnity will be imposed for collection charges at a flat rate amount of 40 €. This indemnity may be increased if the collection charges exceed the flat rate, upon presentation of documentary proof.

Customers who do not adhere to the scheduled payment terms, or who have in the past been the subject of collection proceedings, will only receive deliveries, after their account has been settled, against payment at the time of the order of 50% or of the total amount.

Failure to pay after the due date, regardless of whether it is total or partial,

will result in a penalty, as of right, with the application of a fixed indemnity of 15% on the amount of the unpaid sum.

The bank and debt collection costs arising from an extension of the due date shall be borne by the customer. Non-payment of our invoices shall itself lead to formal notice being given.

In the event of staggered payment which our departments have accepted in advance, the failure to settle one due payment immediately makes the whole debt due for payment. Finally, in the event of delay in payment, we shall be authorised to cancel ongoing contracts and orders without prejudicing any other course of action. This shall mean that we are released from all our undertakings.

8. New customers

People with whom we do not have any commercial relationship are requested to accompany their first order with their Siret or VAT number and payment equal to the amount of its value or to authorise us to make the shipment under cash on delivery terms or else to sign a direct debit payment form.

9. Repackaging by the purchaser

If our customer intends to replace the original packaging of the goods we delivered to him/her, by dint of law no. 64-1360 of 31 December 1964 on trademarks, he/she does not have the right to use our trademark for the repackaged products. This repackaging results in complete release from any liability as far as Graines VOLTZ is concerned.

10. Conditions of use of the products / liability

Use, by the purchaser, of the products is restricted to the production of a single commercial crop. Production excludes any reproduction of seeds and any vegetative propagation. Unless there is any contrary legislative provision, any use of the products - including that of parental lines which may fortuitously be present amongst the latter - for research, selection or molecular or genetic characterisation purposes is strictly forbidden. In the event of resale of the products to a third party, the purchaser shall be obliged to inform the third parties of the obligations described above. Any failure to abide by the above-mentioned restrictions of use shall be the subject of legal proceedings against the purchaser.

Graines VOLTZ restricts the use of all products solely to the uses and categories of uses for which they have been authorised. In other words, it forbids any use which is not explicitly indicated on the label; the Company does not accept any liability in the event of a product being used outside the regulatory framework of the law and that for approval.

Our products may not be sold on for export without the seller's explicit authorisation.

11. Protected varieties or products

Some varieties which we sell have been the subject of a patent, brand or trademark registration, one which is regularly renewed, and the purchaser cannot acquire any property rights on these varieties by usage or by making a claim. He/she undertakes to inform Graines VOLTZ immediately, by any means possible, of any infringement of its property rights on the patents or trademarks, as soon as he/she becomes aware of this, and in this respect must fully cooperate in the defence of the rights of Graines VOLTZ against any infringements.

The reproduction of protected varieties or the use of registered commercial trade names or trademarks is forbidden, unless there is written authorisation by Graines VOLTZ.

The purchaser shall authorise and cooperate with any inspections by Graines VOLTZ with the aim of checking any hindrances to the rights of Graines VOLTZ. To this end, he/she authorises Graines VOLTZ, or any person appointed by the latter, to have direct access to his/her own infrastructures, that is in particular to greenhouses, administration buildings, etc., along with those of third parties used under the responsibility of the purchaser.

The purchaser must ensure that any person handling or receiving the products complies with the obligations laid down above, so that the rights of Graines VOLTZ are respected in every way.

12. Claim periods / product conformity / warranties

Any claim, other than one which is specific to young seedlings, which involves external appearance and species purity must be made within 15 days of the receipt of the goods.

No warranty claim in respect of these provisions can be made by the purchaser for defects which appear:

- 50 days after delivery of the products to the purchaser when the defects involve germination capacity,

- within the normal sowing and inspection timescales immediately subsequent to delivery, when the defects involve the authenticity of the seed, its varietal purity and its species purity.

For young seedlings, the goods may be approved on receipt and claims are to be made to us within 48 hours. Once these timescales have been exceeded, the shipments shall be deemed to have been accepted.

If the conditions defined above are not adhered to, acceptance will be deemed to have been without reservations and the liability of Graines VOLTZ for any defect of conformity of the products may no longer be claimed.

Considering the nature of the products sold, the seller's liability, in the event of errors or defects which are acknowledged or established, may not under any circumstances, and in particular in terms of authenticity, varietal purity, species purity or germination capacity, of resistance conformity, of resistance to strains or races, of diseases unknown as of now and of notified tolerances, exceed the amount of the supply of the delivered item, including the proven costs arising from returning the goods. In order to guarantee the quality as indicated above, the purchaser is forbidden to grade, calibrate, coat or treat the products supplied in whatever way himself, or to have this carried out by a third party.

We will carefully examine any claim which might be made against us as a result of an error on our part and, if applicable, we will not refuse to replace or reimburse all or part of the offending goods.

The purchaser is also aware that the illustrations, catalogues or other descriptions of Graines VOLTZ relating to the quality, weight and measurements of the products are as far as possible in accordance with the tests and experience of Graines VOLTZ. However, these documents cannot under any circumstances involve liability in the event of different results.

The purchaser is also aware that the products are not suitable for human or animal consumption.

13. Terms for return

Any product return must be the subject of a formal agreement between the seller and the purchaser. Any return request must be made within a period of eight days after shipment and the physical return of the goods made within 8 days after this request. Only goods returned with their original packaging intact shall be the subject of a credit note, which however shall not exceed 60% of the initial value. Any product returned without this agreement shall be kept at the disposal of the purchaser and shall not give rise to the issue

of any credit note.

The costs and risks of the return are always borne by the purchaser. No return of young seedlings is accepted.

14. Growing trays

Growing trays and "rigid" seedling containers are and remain at all times the property of Graines VOLTZ and cannot be used by third parties without the prior written agreement of Graines VOLTZ. Customers must store the trays in a clean place and keep them available for Graines VOLTZ who will provide for their return to the production centre. A penalty of 5.00 euros per tray shall be applied if they are not returned.

A penalty of 10.00 euros per tray shall be applied in the event of use by a third party without the written agreement of Graines VOLTZ and the boxes will have to be returned to the Graines VOLTZ logistics centres at the customer's expense.

15. Colour illustrations

The colour photos shown in our catalogues were taken in favourable growing conditions and identical results cannot necessarily be guaranteed. In some cases, they cannot give a 100% accurate reproduction of the plant due to printing conditions.

Plant colours, shades and cycles are given for information purposes and are not contractual.

16. Cases of force majeure

Orders will be carried out except for cases of force majeure. The following are deemed to be cases of force majeure, but this is not an exhaustive list: acts of war, strikes, fires and accidents in any of the companies involved in the production and distribution of the products and seedlings.

17. Hidden defects

Hidden defects for which the warranty may be implemented must exist at the time of the transfer of risks. The purchaser must provide any evidence as to the actual truth and existence of the defects observed prior to the transfer of risks.

Graines VOLTZ reserves the right to carry out any investigation or verification on site, either directly or through an authorised agent. From that point on, the purchaser must give Graines VOLTZ or its authorised agent every assistance in carrying out the above-mentioned investigations and/or verifications.

No warranty action in respect of these provisions may be undertaken by the purchaser for defects which appear after the planting of the products, if the purchaser is not able to prove that he/she acquired the products involved in a proper manner by providing the invoices and/or certificates issued by Graines VOLTZ at the time of the sale.

If these conditions are not adhered to, it will no longer be possible to implement the warranty due as a result of the hidden defects in the products. If it is established that the products supplied are defective, they may be the subject of a return or reimbursement, with the agreement of Graines VOLTZ. In any case, Graines VOLTZ can only accept liability under the terms of the warranty for hidden defects under the conditions defined above, if the purchaser has used the products in a normal way, has not modified them in any way whatsoever and has stored, conserved and handled them so as to ensure they are kept in a good state of preservation.

18. Reservation of title clause

We reserve title to the goods supplied until the full price has been paid. In this respect, the handover of bills of exchange or of any bond which creates an obligation to pay do not constitute payments under the terms of this provision.

With the permission of the supplier, within the framework of the normal running of his/her business, the purchaser is authorised to resell the goods supplied. However, he/she may not pledge them or transfer his/her ownership as a guarantee. In the event of resale, in doing so he/she transfers to us all the accounts receivable arising from his/her profit from the resale to the third party purchaser. The authorisation to resell is automatically withdrawn in the event of payment being stopped. In the event of any other action by a third party, the purchaser is obliged to inform us about this immediately. In spite of the application of this reservation of title clause, the purchaser shall bear the cost of the risks in the event of loss or destruction of the goods as from the time of their delivery. He/she shall also bear the costs of insurance.

19. Results

As the results obtained do not just depend on the product and its quality, but also on factors which are difficult or impossible to evaluate or foresee and which may vary, in particular depending on the regions, environment, agronomic and atmospheric conditions, on the technicians and on the operations involved in cultivation, the advice and suggestions are only given purely for information purposes and cannot as a result entail a crop guarantee.

20. Personal Data Protection

Customer-specific personal data which is gathered and kept as part of orders made, is solely used for managing orders, deliveries and billing. Graines Voltz reserves the possibility of using the customer-provided data for commercial means, only if the latter accepted when initially giving these details.

However, it may, subject to stricter confidentiality rules hereto applicable, be shared within our group, with our contractual partners, service providers and sub-contractors for the same usage, as well as legally-authorised administrative and judicial authorities. This information can be transferred towards a country outside the European Union with an equivalent protection level.

In compliance with the law N°78/17 from January 6, 1978 relating to information, you are informed that you have the right to question, access, rectify and a right to oppose, for a legitimate reason relating to your personal data, by writing to the following address: Graines Voltz SA, 1 rue Edouard Branly 68000 Colmar to the attention of the delegate for data protection.

21. Assignment of jurisdiction

In the event of any dispute, French law alone shall apply. All our sales are made under the conditions laid down above and the act of placing an order with us implies their acceptance. Any difficulty, whatever the cause may be, shall be judged by the competent Courts of COLMAR, who shall have sole jurisdiction over determining the liabilities, even in interim proceedings.



