



Seeds & Consulting



PROFESSIONAL  
**SEEDS**  
CATALOG

TWENTYTWENTYFOUR



# COMPANY

**Fenix is a seed company** who believes in the people, by putting human relations and reciprocal respect as our core values. We consider our company like a team where each player has a fundamental role to achieve the goals we aim to.

We love our job because we are aware of the benefits it is able to bring to the society on multiple sides, and that is the reason why we are constantly looking for solutions for the horticultural sector and consumers.

**The smile of our friend farmers is one of the most rewarding experiences for us, this is the reason why we work very carefully during the research, selection and development of our varieties.**



HERBS

## NOGA F1



Downy mildew (DM 0-1) and fusarium (FOB) resistant hybrid of basil. The plant is distinguished by high vigor and yield, upright habit and regular internodes, as well as the traditional Italian aroma and spoon-shaped leaf characteristic of the Genovese type. Suitable for cultivation in soil (protected and open field), off-soil, floating system and vertical farming for fresh cut and mechanized harvesting.

### DOWNTY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

IR: DM 0-1 (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



FOR FRESH CUT

## YAARA F1

Downy mildew (DM 0-1) and fusarium (FOB) resistant hybrid of basil with high tolerance to the bolting of seed. The plant has long internodes and shows good vigor and yield. Characterized by the traditional Italian aroma of the Genovese type and an elegant deep-green color of the leaves. It is suitable for cultivation in soil (protected culture and open field), off-soil, floating system and vertical farming for fresh cut and mechanized harvesting.

### DOWNTY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

IR: DM 0-1 (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



FOR FRESH CUT



## LIHI F1



Downy mildew (DM 0-1) and fusarium (FOB) resistant hybrid of basil with high tolerance to the bolting of seed. The plant is characterized by short internodes, making it compact and suitable for pot production, and is distinguished by the traditional Italian aroma and the typical spoon-shaped leaf.

### DOWNTY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

IR: DM 0-1 (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



#### FOR POT SHORT INTERNODE

## MIA F1

Downy mildew (DM 0-1) and fusarium (FOB) resistant hybrid of basil with high tolerance to the bolting of seed. The plant is characterized by intermediate-length internodes that make it versatile and suitable for both pot production and fresh-cut, and is distinguished by the traditional Italian aroma and the typical spoon-shaped leaf.

### DOWNTY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

IR: DM 0-1 (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



#### FOR POT MEDIUM INTERNODE



## AYA F1

Downy mildew (DM 0-1) and fusarium (FOB) resistant hybrid of basil with high tolerance to the bolting of seed. The plant is characterized by intermediate-length internodes that make it versatile for pot production and fresh-cut, and it is distinguished by the elegant habit and the long spear-shaped leaf.

### DOWNY MILDEW RESISTANT PREMIUM BASIL

#### RESISTANCES

IR: DM 0-1 (Downy mildew of basil);  
FOB (Fusarium wilt of basil)

FOR POT MEDIUM INTERNODE



## BASILIO F1

Hybrid of basil resistant to *Peronospora belbahrii* race 0, *Fusarium oxysporum* and tolerant to bolting. Erect plant with medium internodes, spoon leaf and Italian aroma. Suitable for the production pots.

### DOWNY MILDEW RESISTANT PREMIUM BASIL

#### RESISTANCES

IR: DM0 – (Downy mildew of basil);  
FOB (Fusarium wilt of basil)

FOR POT MEDIUM INTERNODE



## GERVASO F1

Ibrido di basilico **resistente a Peronospora belbahrii razza 0** e tollerante alla salinità a seme caratterizzato da una **pianta compatta**, foglia ampia, scura e con una tipica forma a cucchiaio. Aroma tipico italiano.

### DOWNY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

IR: DM0 – (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



#### FOR POT SHORT INTERNODE



## PROSPERA® F1

Basil hybrid resistant to Peronospora belbahrii race 0 and Fusarium oxysporum f. spbasilici, very tolerant to bolting. Its hybrid nature guarantees high performances in germinability, homogeneity, germinative and productive energy, thanks to the numerous number of feasible cuts. The very early plant shows itself in an erect lift with regular internodes, spoon-shaped leaf and typical Italian flavor. Suitable for cultivation on soil (protected cultures and open-field), out-soil, floating system and vertical farming.

### DOWNY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

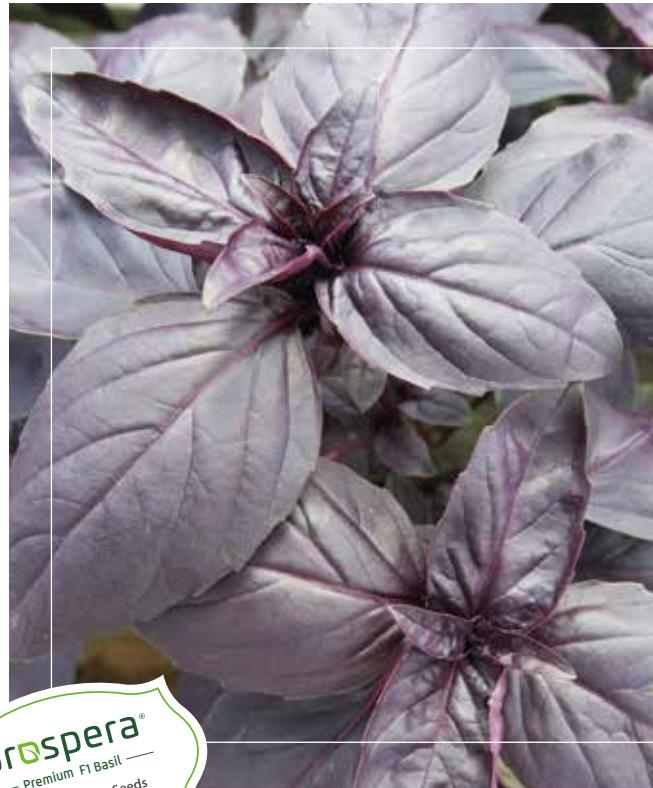
IR: DM0 – (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



#### FOR FRESH CUT



## PROSPERA RED ® F1



A unique combination of red basil and DM resistance. Shiny dark purple basil with an elegant stand and a great aroma of sweet Genovese. Suitable for cut, pot and baby leaves.

### HYBRID BASIL RESISTANT TO FUSARIUM



#### RESISTANCES

IR: DM0 – (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



FOR FRESH CUT



FOR POT

## ILL 2 F1

Basil hybrid resistant to downy-mildew belbahrii race 0 and fusarium suitable for the fresh cut market. It pledges very high yield performances thanks to its very large spoon-shaped leaf which is characterized by strong stem and bushy carriage. Anise flavor.

### DOWNTY MILDEW RESISTANT PREMIUM BASIL



#### RESISTANCES

IR: DM0 – (Downy mildew of basil);  
FOB (Fusarium wilt of basil)



FOR CUT



## ADI F1



Adi F1 combines the precious organoleptic, productive and genetic characteristics (resistance to Fusarium, to handling and transport) of Aroma 2 a with a more compact and faster emission of lateral sprouts thanks to the preforming of new leaves at the internodes. Particularly suitable for spring and summer transplants.

### HYBRID BASIL RESISTANT TO FUSARIUM



#### RESISTANCES

IR: FOB - Fusarium wilt of basil



FOR FRESH CUT



FOR POT

## AROMA 2 F1

Basil hybrid with the typical Genoese aroma resistant to Fusarium, handling and transport. The Aroma 2 leaves do not blacken during processing and packaging. This very strong plant allows the performance of numerous cuts. Thanks to its good tolerance against the cold, it is recommended for use during the autumn-winter months.

### HYBRID BASIL RESISTANT TO FUSARIUM



#### RESISTANCES

IR: FOB - Fusarium wilt of basil



FOR CUT

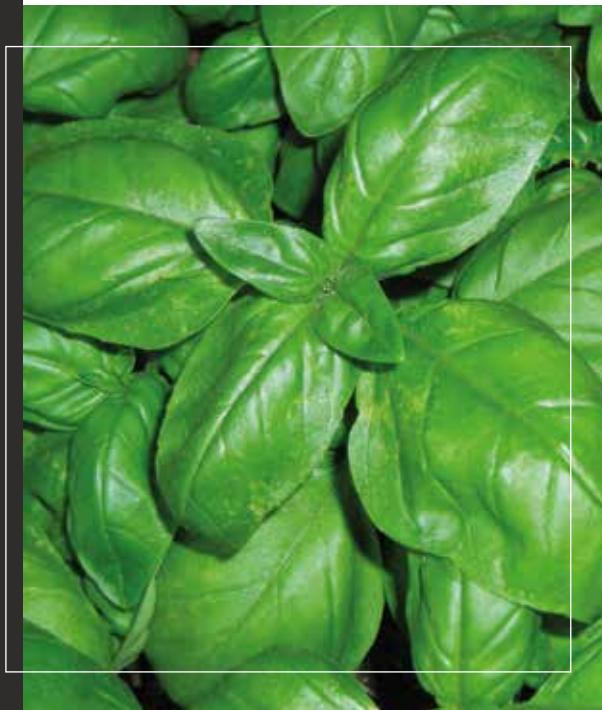


## ALADINO

Selection of Italian basil with long shelf life with spoon-shaped leaf and excellent aroma. Ideal for cutting



FOR CUT



## LETTUCE LEAVED

Type of basil characterized by a very broad, bullous leaf. Mild aroma.



FOR POT



## GREEK

Typical type of Greek basil, small leaf size, sweet flavor and compact plant. Good tolerance to seed rise.



FOR POT





THE SEED IS ONLY AVAILABLE  
**AS NOT TREATED  
OR CERTIFIED ORGANIC**

Many other species and varieties  
available on the website  
or through direct request.

[www.fenixseeds.com](http://www.fenixseeds.com)

## • Other aromatic seeds



### DILL

Upright stem, yellow flower and intense aroma.



### SWEET MARJORAM

A classic marjoram variety characterized by smooth and light leaves and a very pleasant flavor that is sweeter than oregano.  
The plant is bushy and evergreen.



### MINT

Highly aromatic selection with saw-toothed shaped leaf and stem characterized by red veins.



### SYRIAC OREGANO

Sourced in the Middle East, this selection of rosemary is very aromatic, bushy and resistant to cold temperatures.  
The flowers are white and the leaves are covered by a dense fuzz.



### PARSLEY ITALIAN GIANT

Parsley variety that is distinguished for the particularly large and aromatic leaves of a dark-green color, and the highly-vigorous thick stem.



### ROSEMARY

Classical upright-growing rosemary



### SAGE

Aromatic and not ornamental plant with regular leaves and purple flowers.



### THYME

Variety characterized by high number of branches and a small, oval-shaped, highly aromatic leaf.

02



ONION

## FX 1813 F1



Short-day cycle, golden onion hybrid with erect and very strong leaf apparatus that makes it more tolerant to fungal disease attack. Bulbs are very homogeneous with pure white, thick, juicy and sweet tunics.

The bulbs are homogeneous with a high weight that can reach up to 420 gr with a diameter of 8-9 cm. depending on the growing condition. This hybrid is suitable for fresh consumption.

## FX 1823 F1

Short day and late cycle yellow hybrid onion. Upright leaf apparatus with bright dark green color. The weight reaches 300 gr with a diameter of 7-8,5 cm. The bulbs are homogeneous with thick tunics of candid white color. Suitable for fresh consumption and long shelf life (about 5 months).



## FX 2052 F1



Short-day hybrid of red onion with medium-late cycle. The very strong plant is characterized by robust, thick, dark green canopy. The sweet-tasting bulb can reach large sizes (up to 500 g). The very white inner tunics create a very attractive contrast to the deep red of the outer ones. Shelf life is good (4 months). Suitable for fresh onion harvest.

## FX 2053 F1

Late short-day hybrid characterized by very robust dark green canopy. The very white tunics are characterized by a very sweet taste. Shelf life approx. 4 months.

## FX 2576 F1

Short-day white onion hybrid type  
Medium-early Wheat. The variety reaches a size of 300 grams with an average diameter of 7 cm showing a good level of uniformity and a green and rather vigorous leaf apparatus.  
It is adapted to the intermediate cycle in Sicily with good tolerance to seed set and excellent intermediate resistance to Pink Root.



### RESISTANCES

IR: St – Pink root rot



## CALENDAR FOR ONIONS SOWING, TRANSPLANT AND HARVEST

SEPTEMBER OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE

|            |   |   |   |   |  |  |   |   |  |
|------------|---|---|---|---|--|--|---|---|--|
| Fx 1813 F1 | ● |   | ▲ |   |  |  | ■ |   |  |
| Fx 1823 F1 | ● |   | ▲ |   |  |  |   | ■ |  |
| Fx 2052 F1 |   | ● |   | ▲ |  |  | ■ |   |  |
| Fx 2053 F1 |   | ● |   | ▲ |  |  | ■ |   |  |
| Fx 2576 F1 |   |   | ● | ▲ |  |  |   | ■ |  |

- SOWING
- ▲ TRANSPLANT
- HARVEST





MELON AND  
MINI-WATERMELON

## MINIAZABACHE F1



Very early mini watermelon hybrid with a micro seeds and an attractive black coloured skin. This variety is very productive, with several fruits per plant, characterized by a perfectly spherical shape and a very homogeneous size (2 kg). Excellent for early greenhouse, tunnel and open field cultivation. The thickness of the peel is ideal for ensuring resistance to transport and stacking.

## FX 1468 F1

Hybrid of mini watermelon belonging to the crimson sweet typology, seedless, very productive. Plant is strong and vigorous and it develops a covering leaf coverage. The fruit (2.5/3 Kg average) shows bright red pulp. Skin thickness is balanced leading to high stacking and transports resistances. Ideal for semi-forced and open field crops.

*\*\*It is necessary the use of pollinator on yield. Under specific stress conditions, especially in early cultivations, it is possible that the plant makes normal or aborted seeds.*





## TAHITI F1

Midi watermelon hybrid very early with a balanced vegetation. It produces homogeneous fruits with an innovative colour of the skin and the average weight of 3-4 kgs. The crisp flesh has an intense red colour. High productivity. Suitable for greenhouse cultivation, tunnel and early open field cultivation.

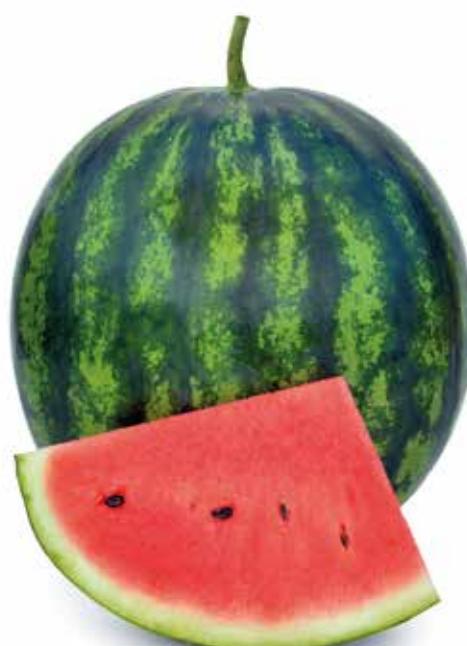


### RESISTANCES

HR: Fon 0, Fon 1, Co – anthracnose

## FX 2014 F1

Midi watermelon size with seeds, it is a round Crimson type, suitable for early cycles in greenhouses. The medium vigor plant has a medium ripening cycle. The fruits with an average weight of 6.3 kg are very uniform in size and they are characterized by a very high °Brix.



## MALIBU F1



Vigorous plant with dense leaf canopy. Highly productive: set and supports a high number of fruits per plant, with an average weight of 8-10 kg, with a regular and homogeneous oblong shape. Traditional hybrid with seeds. Bright skin and deep red sweet pulp. Suitable for cultivation in tunnels and in open fields.

### RESISTANCES

HR: Fon 0, Fon 1, Co – anthracnose



## FX 2022 F1

Crimson sweet watermelon hybrid with seeds characterized by elongated shape and suitable for the late transplants in greenhouse (March) and then continuing in the open field. It shows good vigor and leaf coverage producing fruits that achieve 12 kgs on average homogeneously. In terms of quality, the variety is distinguished by high brix (12 avg), pleasant flavor and, excellent red color of its flesh.

### GRAFTING TIPS

**ROBUSTA F1** is suggested for the mini and midi watermelons grafting.

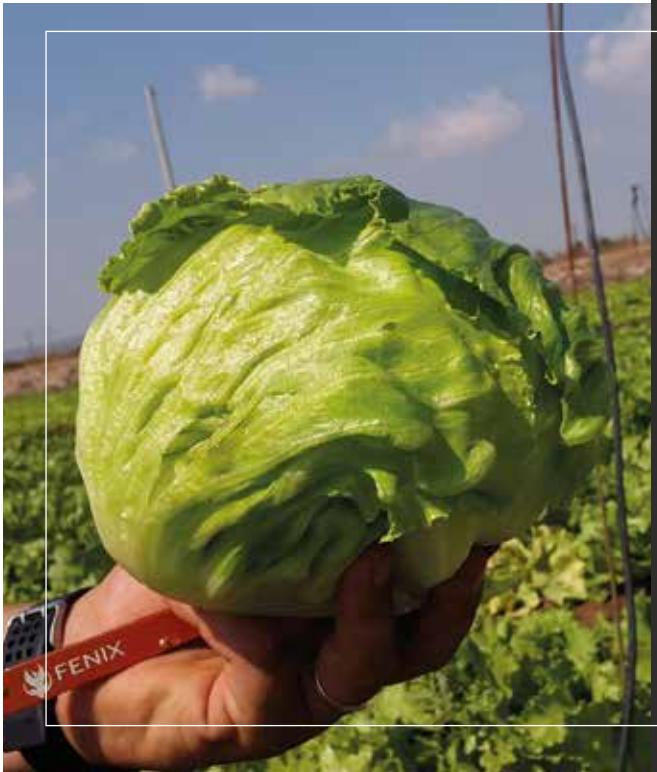
**SHINTOZA F1** is suggested for the traditional ones.

Find out more in the rootstocks section.

*Weights in description should be considered as indicative, the result of average detections collected in different Italian areas on ungrafted plants.*



LETTUCE



## AVIRAM

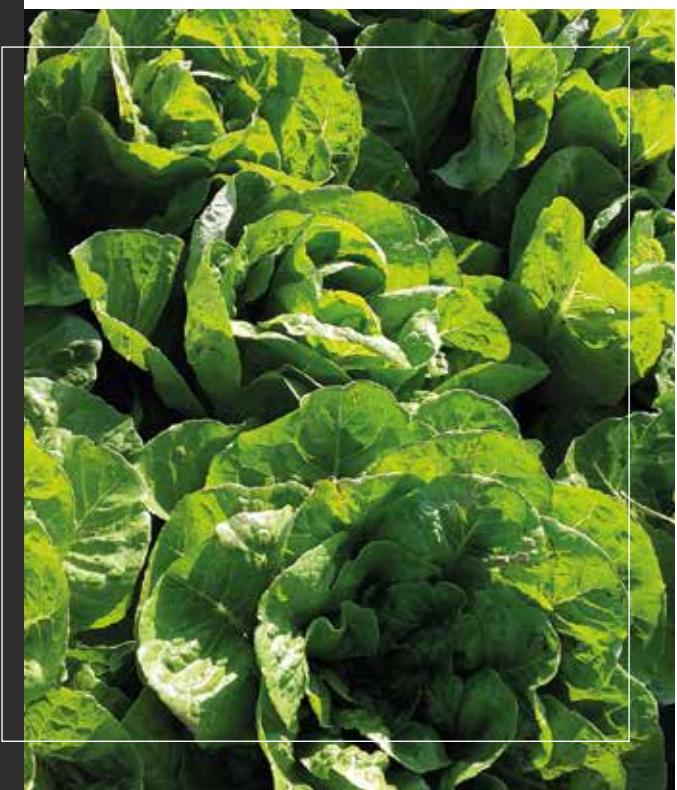
Iceberg lettuce for spring / summer transplants, very rustic with large and heavy tufts. The leaves, medium bright green, are crisp and tasty.

Excellent tolerance to the bolting of seed.

## NOGAL

Spring summer romaine with a very large and heavy (900 – 1100 gr) head. Rugged leaf with glossy green color.

Early maturity, high tolerance to bolting.





EGGPLANT

## ARAGON F1



Hybrid eggplant for open field cultivation. Vigorous plant, it tolerates high temperatures very well. Oval fruit, black, very firm, resistant to pulp oxidation.

## TUDELA F1

Hybrid for cultivation in protected cultivation. Medium vigor plant with good production continuity even at low temperatures, elongated uniform fruit (average weight 280 g) and regular until the end of the cycle with good coloring and well marked ironing.

Very good consistency. Good post-harvest preservation.





MELON

## MOJITO F1



Hybrid suitable for late transplants with excellent fruit set capacity and resistance to over ripening already in the field. The fruit, with an average weight of 2.8 kgs, has a good rough skin, a deep golden yellow colour when ripe, reduced placental cavity and excellent flesh quality. Ideal for sale in tray boxes at retail chains and supermarkets.



### RESISTANCES

HR: Fom 0, Fom 2 IR: Px – powdery mildew

## SUZAN F1

Galia Melon boasting an exceptionally long shelf life but with the flavour and softness of the flesh of the typical classic varieties. A strong covering plant suitable for cultivation in greenhouses and open fields. The fruit set is regular, abundant and contemporary. The unripe fruits are light green in colour and should only be collected when they are changing to a bright yellow.

This variety, with an average weight of 1.5-2 kgs and a homogeneous and slightly elongated shape, are perfect for the composition of 6 piece boxes.



### RESISTANCES

HR: Fom 0, Fom 1, Fom2

IR: MNSV – Melon necrotic spot virus

Px – powdery mildew





INDETERMINATE  
TOMATO

## OMARTY F1



Red cluster tomato hybrid suitable for transplants in Sicily from October to December in greenhouses. Medium vigour plant with very regular internodes. The outstanding bright red coloured fruits are rather large, have an average weight of 150-180 grams and are inserted in a herringbone cluster featured by a very sturdy rachis. The regular size of fruits can be appreciated in both the single clusters and among the different stages. The quality of the Omarty fruits draws benefits from pruning of the cluster.



### RESISTANCES

HR: Vd, Fol 0, Fol 1, ToMV

IR: **TYLCV**

## FX 1648 F1

Red cluster tomato hybrid ideal for September to Mars transplants in Sicily. Vigorous plant with an interesting resistance response to some new Tobamoviruses. Very elegant and heavy fishbone-shaped cluster with shiny deep red colored fruits.



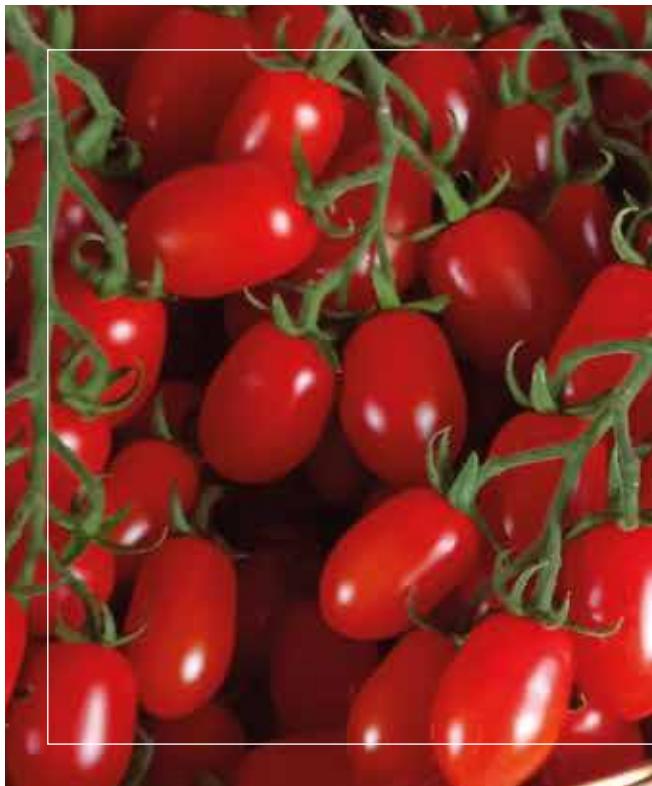
### RESISTANCES

HR: Vd,Fol0-1,Sl, ToMV

IR: Mi- nematodes, **TYLCV**



## DUCI F1



Grape tomato hybrid suitable to the long cycles of cultivation with a medium-high vigor, well balanced and generative plant. Fruits are set on an ordered fishbone-shaped vine, with an average weight between 20 and 23 grams depending on the growing conditions. The color of fruits is deep red and the °Brix level is very high even when it is set in low salinity waters environments. High yield and high tolerance to cracking, Duci F1 is suggested for the Autumn-Winter transplant both for vine and loose harvesting.



### RESISTANCES

HR: Fol0-1, ToMV

IR: TYLCV, MaMiMj – nematodes

## MIELE F1

Miniplum tomato characterized by the highest quality of fruits. Well balanced plant with (uniform) leaf coverage and interesting resistance response to some new Tobamoviruses. Very regular fruits (18 gr average) are (gracefully) set within an elegant fishbone shaped rachis. The shiny red fruits present a very high Brix level and high resistance to cracking. Ideal for long cultivation cycles, it fits the most with mid-August transplant forward in Sicily.



### RESISTANCES

HR: Va, Vd, Fol0, ToMV

IR: Ma Mi, Mj – nematodes, **TYLCV**



## KENDALL F1



Indeterminate tomato belonging to the mini plum tipology characterized by a strong plant with a pretty well balanced leaf coverage and an interesting resistance response to some new Tobamoviruses. The typical plum/date shaped fruits (18 gr. average), present a shiny-bright red color within very generous clusters. Yield performances are very high for this hybrid which suit the most within spring and summer cultivation cycles. Thanks to its very high resistances Kendall is selected from several companies for organic productions.



### RESISTANCES

HR: Fol0, Fol1, Fol2 – Fusarium 3, Sl –

Stemfiliosi, Pst, ToMV, TSWV

IR: Mi, Mj – nematodes, **TYLCV**

## NETTARINO F1

The newest grape tomato hybrid for the Spring-Summer transplants characterized by small size (10-13 gr) and a very high °Brix. Vigorous plant with balanced dark green leaves. The intense red fruits are gathered in clean clusters and show high tolerance to apical rot and dropping even in the presence of high temperatures. The hybrid has a wide range of genetic resistance.



### RESISTANCES

HR: Fol 0, Fol 1, **For** – **Fusarium radicis**,  
ToMV

IR: TYLCV, TSWV, On – Powdery mildew,  
**MaMiMj** – nematodes





## GLITTER F1

Bright-orange mini plum tomato hybrid with strong and generative plant. The fruits are set on an elegant fishbone-shaped vine with a juicy pulp, which is characterized by sweet and intense taste. Fruits' weight sets between 20 and 25 gr and the variety suits both to vine and loose collecting nicely.



### RESISTANCES

HR: ToMV

IR: **TYLCV**

## POTTERINO F1

Midiplum tomato hybrid with a very vigorous plant and strong characterized by long and elegant bunches. The intense red and consistent fruits have always the typical goatee at the base. In Sicily for long cycle autumn transplants (suitable for horizontally hooked breeding).



### RESISTANCES

HR: Vd, Fol0, Fol1, For – Fusarium radicis, Ff – cladosporiosis ToMV

IR: Mi, Mj – nematodes, **TYLCV**.



## KRONOSTY F1



Autumn winter cherry with short internodes suitable for transplants in Sicily from end of August to December. The fruits weigh 20-25 g, gathered on a very strong rachis, are resistant to cracking and guarantees long shelf life post harvest.

The berry has a strong consistency but the internal flesh is pleasant on the palate thanks to an excellent acid / sugar ratio, which enhances the flavour. The variety is sensitive to the use of growth regulators.



### RESISTANCES

HR: Vd, Fol0, Fol1, For – Fusarium radicis, ToMV  
IR: Ma, Mi, Mj – nematodes, TYLCV

## FX 2888 F1

Cherry tomato hybrid for the autumn-winter transplants in Sicily that is suitable for the long cycle of cultivation.

The plant shows good vigor, a well-balanced vegetative apparatus, and medium-length internodes producing fruits of 28 grams on average that are set on an elegant fishbone shaped cluster.

The fruits were distinguished for the very long shelf life and the high brix level.

### RESISTANCES

HR: V, F1-2, SM, Ff, For  
IR: Mi, Mj, TYLCV, **ToBRFV**





## FX 2925 F1

A cherry tomato hybrid characterized by a dark and highly vigorous plant with a covering canopy designed for the spring-summer transplants in greenhouses that showed good continuity of production, excellent setting of fruits, even at high temperatures and, very high yield. The fruits of a very deep and bright-red color are set on a thick and elegant fishbone-shaped vine showing an average weight of 25 grams.



### RESISTANCES

HR: ToMV, V, F1, F2

IR: TYLCV, Ma, Mi, Mj, **ToBRFV**

## FX 2946 F1

Mini Sanmarzano hybrid, characterized by a strong and steady plant. The elongated and bright-red fruits show the typical San Marzano shape of a smaller size, 30 gr, that is maintained even at the higher stages. It is suitable for the loose harvest, and it is distinguished for the very high yield. Tolerant to the cracking of fruits.



### RESISTANCES

HR: ToMV, Vd, F1, F2

IR: Mi, TYLCV, TSWV, **ToBRFV**

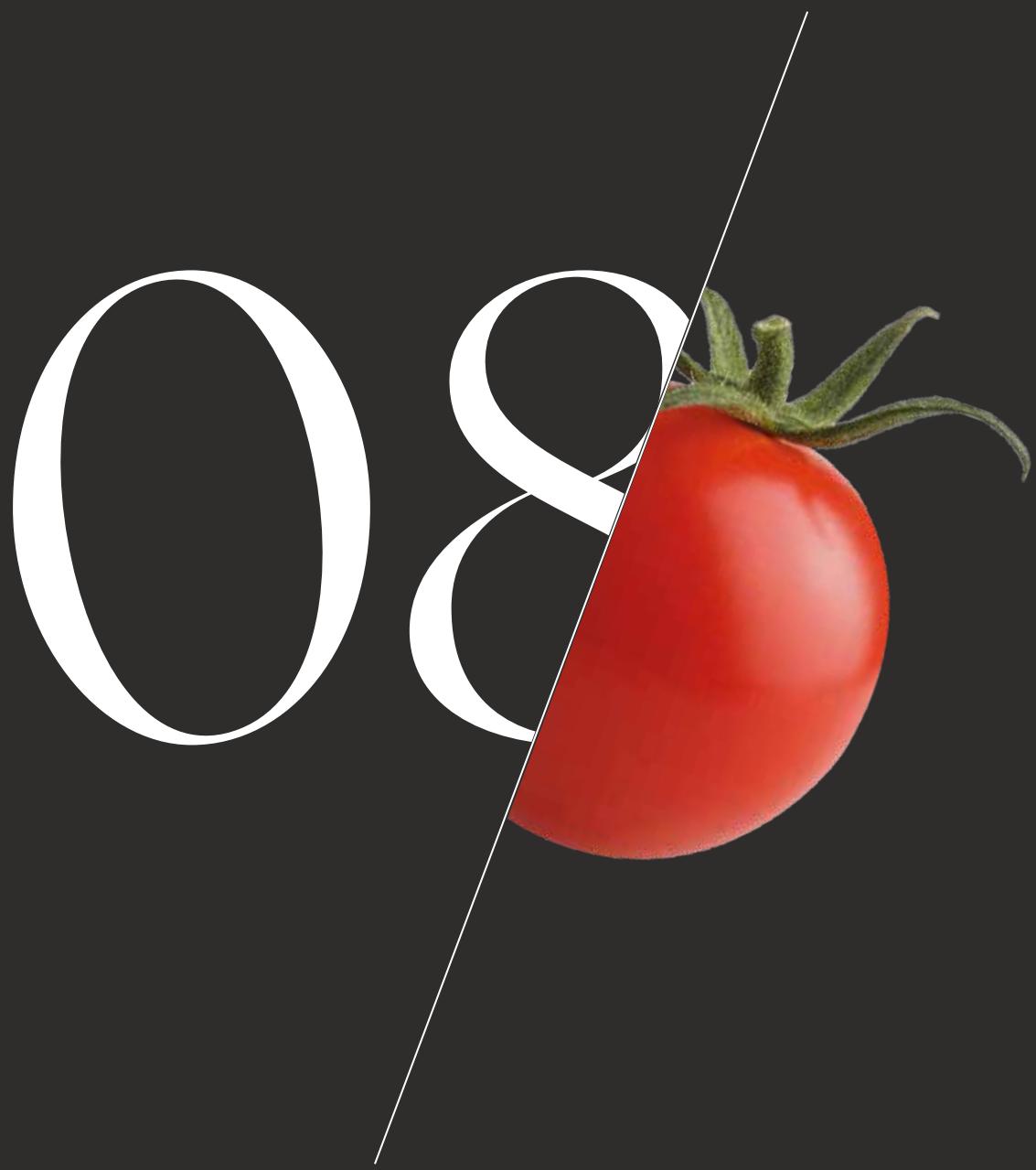


A photograph of tomato plants growing in a greenhouse. The plants are trained in a cordon system, with green and red tomatoes hanging from the branches. The plants are supported by white strings and stakes. The background shows more rows of plants and some agricultural equipment.

ALL TOMATO VARIETIES IN OUR  
RANGE HAVE BEEN TESTED  
AND SELECTED ACCORDING  
TO EXCELLENT CULTURAL AND AFFINITY  
RESULTS WITH OUR ROOTSTOCKS

**More information in the  
rootstock dedicated section.**

[www.fenixseeds.com](http://www.fenixseeds.com)



DETERMINATE  
TOMATO



## NYSIROS F1

Determinate miniplum hybrid suitable both for the fresh market and the industry. Strong and healthy plant with good coverage. The deep bright-red fruits weight 15-20 gr average.



### RESISTANCES

HR: Vd, Fol 0, Fol 1

IR: Pst, TSWV, **Ma, Mi, Mj** -nematodes, **Pst, TSWV**

## ETNIX F1

Cherry determinate tomato hybrid for the fresh market (staggered harvest) characterized by exceptionally high productivity and excellent quality of the berries.

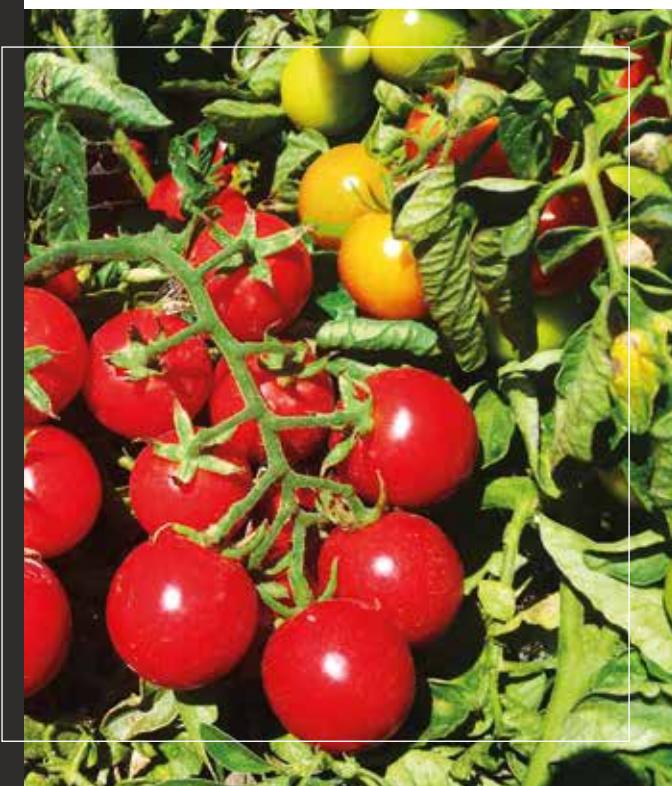
°Brix, balanced acid/sugar ratio and intense pigmentation of the berries make it a high quality product. The fruits gathered in clusters weigh about 15 grams.

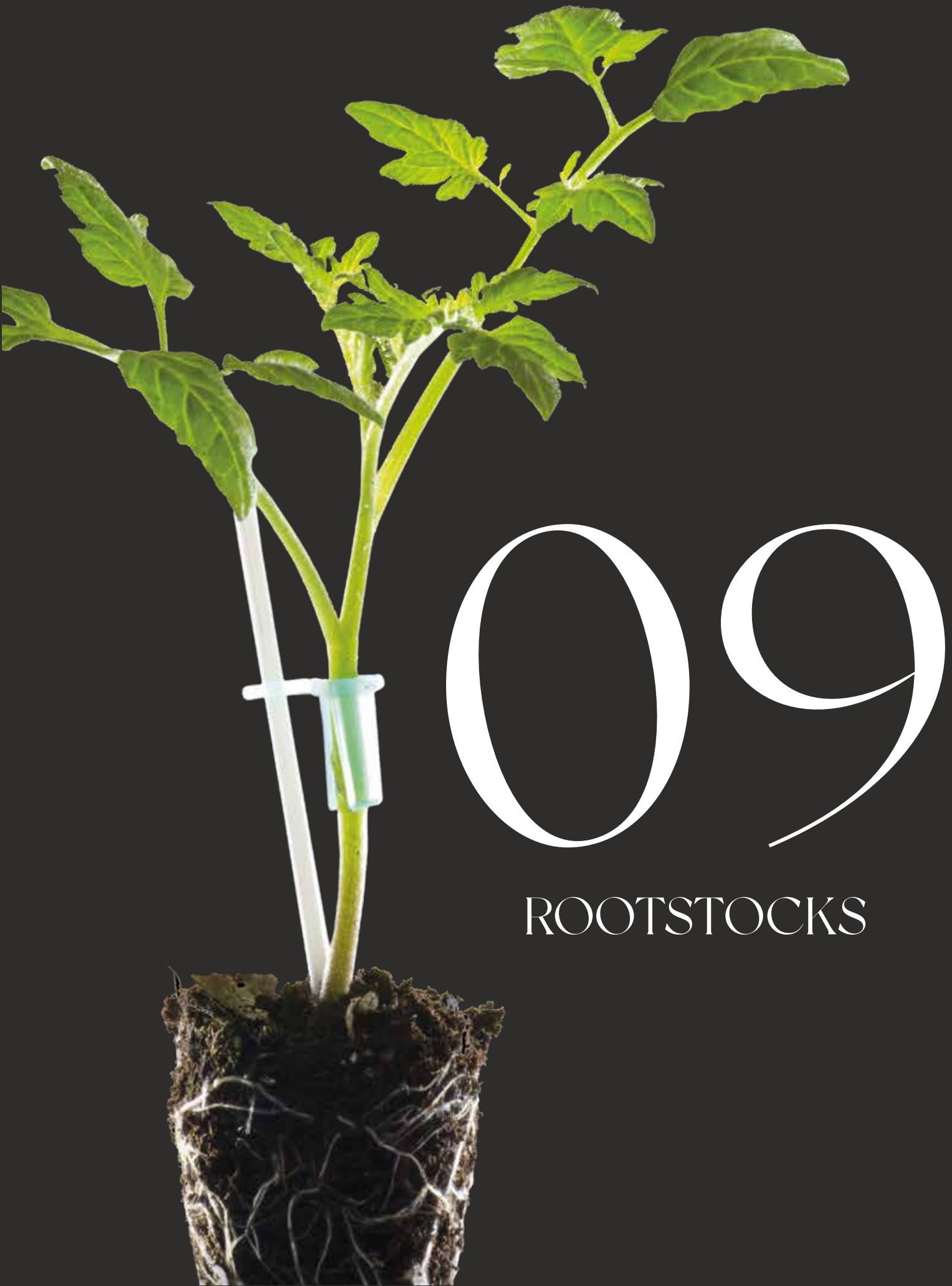


### RESISTANCES

HR: Vd, Fol 0, Fol 1, Pst, **TSWV- Tomato spotted**

IR: **Mi, Mj** - nematodes





| Name                  | To Graft with   | Vigor       | Notes   | Resistances   |
|-----------------------|---|-------------|---|---|
| <b>SECURFORCE F1</b>  |    | Medium      | Tomato hybrid (S.lycopersicum X S.lycopersicum), very high level of suitability with the nests, it keeps shape and color of the nest. It enhances organoleptic qualities.   | <b>HR:</b> Vd, Fol0, Fol1, Fol 2 (Fusarium 3), For – Fusarium radicis lycopersici, ToMV<br><b>IR:</b> Ma, Mi, Mj – nematodes - corky root, Bw |
| <b>ROOTPOWER F1</b>   |    | Medium high | Very sturdy, it keeps the plant balanced during the different stages and seasons of cultivation, it suits with many typologies of tomatoes allowing to grow for a very long cycle of cultivation.   | <b>HR:</b> Va, Vd, Fol0, Fol1, For – Fusarium radicis lycopersici, Pl – corky root, ToMV<br><b>IR:</b> Ma ,Mi, Mj – nematodes                 |
| <b>FX 2853 F1</b>     |    | High        | Excellent suitability with the top-graft and the longest cycles of cultivation on heavy soils.  | <b>HR:</b> ToMV, Vd, Fol: 0,1,2, For, Pf<br><b>IR:</b> Mi   |
| <b>BLACK DEVIL F1</b> |   | Medium high | Eggplant hybrid (S. melongena X S. melongena), nice tolerance to cold temperatures, earliness in harvest.   | <b>HR:</b> Fom<br><b>IR:</b> Vd, Bw   |
| <b>RINGOSTAR F1</b>   |  | Low         | Hybrid of melon (C. melo X C. melo) with excellent level of suitability with the nest, it keeps the size of fruits without altering organoleptic qualities.   | <b>HR:</b> Fom0, 1, 2, Fom1-2y – y type of yellowing, Fom 1-2w – w type of wilting, MNSV  |
| <b>ROBUSTA F1</b>     |  | Medium      | Hybrid of watermelon (C. lanatus X C. lanatus) for the mini types, it keeps the size of fruits making the productin earlier and enhacing the fruit's qualities.   | <b>HR:</b> Nematodes, Fon   |
| <b>SHINTOZA F1</b>    |  | Medium high | Hybrid of C. maxima X C. moschata, it gives the proper push to the plant keeping the vegetative-productive balance and enhancing yield.   | <b>HR:</b> Fon  |
| <b>PEPPERSTORM F1</b> |  | Medium      | Hybrid of pepper (C. annuum X C. annuum), excellent suitability with the different typologies of pepper, very balanced, uniformity of growth with the nest, it doesn't alter the qualities of the fruit's nest, it can enhance the thickness of the fruit's wall. | <b>HR:</b> TMV<br><b>IR:</b> Bw, Phy – Phytophtora capsici (bligh of pepper)  |

## **LEGEND OF RESISTANCES**

### **BASIL**

Fob Fusarium oxysporum f. sp. basilici – Fusarium wilt of basil;  
DM0 – Peronospora belbahrii – Downy mildew of basil race 0;  
DM1 – Peronospora belbahrii – Downy mildew of basil race 1;

### **CABBAGE**

Foc Fusariumoxysporum f. sp. conglutinans;  
Xcc Xanthomonas campestris pv. campestris;

### **WATERMELON**

Fon Fusarium oxysporum f. sp. niveum – Fusarium wilt of watermelon;  
Co Colletotrichum orbiculare – Anthracnose;

### **MELON**

Fom Fusarium oxysporum f. sp.melonis – Fusarium wilt of melon;  
Px Podosphaera xanthii (ex Sphaerotheca fuliginea) – Powdery mildew;  
MNSV Melon Necrotic Spot Virus;

### **PEPPER**

PVY – Potato Y virus  
TM – Tobamovirus (ToMV – Tomato mosaic virus, TMV – Tobacco mosaic virus, PMMoV – Pepper mild mottle virus)  
TSWV – Tomato spotted wilt virus  
Phy – pedal gangrene of pepper

### **TOMATO**

Va Verticillium alboatratum – Verticillium wilt;  
Vd Verticillium dahliae – Verticillium wilt;  
Fol Fusarium oxysporum f. sp. lycopersici;  
For Fusarium oxysporum f. sp. radicis lycopersici – Fusarium radicis;  
FF Fulvia fulva – Leaf mould of tomato; SI Stemphylium lycopersici – Leaf blight of tomato;  
Pst Pseudomonas syringae pv. tomato – Bacterial speck of tomato;  
Ma, Mi, Mj\* Meloidogyne arenaria, Meloidogyne incognita, Meloidogyne javanica – nematodes;  
ToMV Tomato mosaic virus;  
TSWV Tomato spotted wilt virus;  
TYLCV Tomato yellow leaf curl virus;  
ToTV Tomato torrado virus;

### **ROOTSTOCKS**

Bw Ralstonia solanacearum – Bacterial wilt;  
Fol Fusarium oxysporum f. sp. lycopersici – Fusarium wilt of tomato;  
Fon Fusarium oxysporum f. sp. niveum – Fusarium wilt of watermelon;  
Fom Fusarium oxysporum f.sp. melongenae – Fusarium wilt of eggplant;  
For Fusarium oxysporum f. sp. radicis lycopersici – Fusarium radicis  
MNSV – Melon Necrotic Spot Virus;  
N\* Nematods;  
Phy – Phytophtora capsici Leonian;  
PI Pyrenophaeta lycopersici – Corky root rot;  
Vd Verticillium dahliae, Verticillium albo-atrum – Verticillium wilt;

\* Soil temperature above 27 ° C and other stress factors can be the reason of a decrease of the resistance level until it is canceled. In general, and even more in soils where the previous crop has suffered attacks from this pathogen, it is necessary to carry out disinfection interventions before transplant and during cultivation.

# DEFINITION OF THE TERMS USED IN THE SEED HORTICULTURAL FIELD TO DESCRIBE PLANT'S REACTION TO THE HARMFUL PATHOGENS AND ANTIBIOTIC STRESS

## 1. Introduction

The relationship that occurs between a plant and an harmful pathogen is complex. The terms used to describe the reaction of a specific variety to an harmful organism are determined thanks to the realization of trials within controlled environments, with well-known biotypes, pathotypes, races and strains of the harmful organism in consideration. In practice, the possibility of an harmful organism to create disease to a plant, depends on environment conditions, organism's characteristics, and the plant's capacity to defend itself from the harmful organism attack. Between a determined vegetable species, the varieties can show different defence capacity.

Depending on various functions like plant's age, pressure and virus grade of the harmful organism or not favorable environments, the interaction between the plant and the harmful organism can lead to different outputs.

We know that harmful organisms are able to give life to new biotypes, pathotypes, races and strains that may be able to bring damage to the plants, which are not attacked by the original harmful organism.

In order to assure coherence between the terms used to describe the reaction of the plant in relation with an harmful organism, the horticultural and ornamental seed sections of the ISF supplied the following terms.

## 2. Definitions

**Susceptibility:** When a vegetable variety is not able to limit growth and/or development of a specific harmful organism.

**Resistance:** When a vegetable variety is able to limit growth and/or development of a specific harmful organism and/or the damage it brings, in comparison with susceptible varieties under the same environmental conditions and pressure of the harmful organism. Any way, resistant varieties can show some symptoms of disease or damage when subject to strong presence of the harmful organism.

ISF defines two levels of resistance:

**High resistance (HR\*\*):** the variety is able to limit growth and development of a specific harmful organism strongly under normal conditions of infectious pressure when compared with susceptible varieties. However these varieties may show some symptoms or damage under high pressure levels of the harmful organism.

**Intermediate resistance (IR\*\*):** the variety is able to limit growth and development of a specific organism, which may show a wider range of symptoms and damages in comparison to highly resistant varieties. Intermediate resistance varieties will show less evident symptoms and damages than susceptible varieties if grown under similar environment conditions and/or they are exposed to the same pressure by the harmful organism. It is important to notice that if a variety is declared resistant, this resistance is limited to a specific biotype, pathotype, breed or strain of the harmful organism. If resistance is declared without specifying any biotype, pathotype, race or strain, it means that no recognized classification of the harmful organism exists as a biotype, pathotype, race or strain. Any new biotypes, pathotypes, races, strains that might occur, are not covered by the original declared resistance.

**Immunity:** when a plant is not object of the attack or infection caused by a specific parasite harmful organism.

## USAGE RESTRICTION

The information contained in this publication is not intended to be exhaustive nor should it be considered as advice, guidance or recommendations. It simply represents the average results achieved during tests carried out by Fenix S.r.l. and it is not applicable or adaptable to all cultural and pedo-climatic conditions. The terms "high resistance" (HR) and "intermediate resistance" (IR) do not imply plant immunity but they refer to the current ISF terminology. No warranties are made regarding yield, performance, merchantability, fitness for a particular purpose or otherwise. Finally, pics used have a purely indicative value Copyright The information contained in this catalog is the exclusive property of Fenix S.r.l. The total or partial reproduction of the contents and images, subject to the authorization of Fenix S.r.l. constitutes a crime of copyright infringement.

- FENIX HAS ALWAYS CARED ABOUT THE QUALITY AND HEALTH OF THE SEEDS IT SALES.
- THE ALL SEED UNDER FENIX BRAND IS MARKETED FOLLOWING STRICT TRACEABILITY PROTOCOLS AND IT IS CERTIFIED IN ACCORDANCE WITH THE CURRENT EUROPEAN REGULATIONS.
- THE MINIMUM PACKAGE SIZE FOR SEED SOLD BY NUMBER IS 1,000 SEEDS, WHILE THE MINIMUM PACKAGE SIZE FOR SEED MARKETED BY WEIGHT IS 500 g, BASIL GRAINS(MULTISEM SEEDS) ARE ALSO AVAILABLE IN THE MINIMUM PACKAGE OF 5000
- THE SEED SUPPLIED IS NOT TREATED

## **GENERAL CONDITIONS OF SALE**

### **ART.1-GENERAL LAW**

Each order, received either directly or through our Officials or Sales Agents, implies the implicit and unconditional acceptance of the "general conditions of sale" reported here.

### **ART.2-ASSESSMENT OF THE ORDERS**

All orders, except of confirmation of availability, are considered accepted in the absence of cancellation by the seller. No indemnity will be granted to the customer in the event that his order could not be fully or partially fulfilled for reasons of force majeure or, however, independent of the will of the seller. The seller is authorized to make partial deliveries of the products ordered."

### **ART.3-PRICES**

The prices in Euro shown in the price list do not include VAT, not-binding, variable without notice and not retroactive. In case of variation, the customer will be informed at the time of order placement.

### **ART.4-PAYMENTS**

Unless otherwise agreed upon in writing, payments for the supplies shall be made within the terms indicated in the relevant invoice and at the Seller's premises. In any hypothesis of delay of payment by the purchaser, the default interest as well as compensation for the costs incurred for the recovery of sums not promptly paid will be due to the seller, without the need for formal notice, pursuant to Legislative Decree no. 231/2002 and subsequent additions and amendments.

### **ART.5-SHIPMENTS AND DELIVERY TERMS**

All orders will be dispatched ex works (EXW INCOTERMS) and, therefore, all transport costs to the place of delivery are charged to the customer. The goods always travel at the customer's risk.

Delivery terms are purely indicative, and the seller will not be responsible for any delays.

At the time of delivery, the buyer is required to verify the integrity of the packaging of the goods and the regularity of the seals. Returns are not accepted.

## **ADDITIONAL CONDITIONS FOR THE SALE OF SEED**

### **ART.6-GUARANTEES**

Fenix S.r.l. guarantees that the seeds supplied, at the time of delivery, comply with the indications printed on the packaging, in compliance with the laws in force. The actual performance of the product depends, however, on numerous factors (such as, for example: environmental conditions, cultivation management, etc.) that do not depend on the quality of the seed and make the contract aleatory. The seller, in view of this uncertainty recognized by the buyer, does not offer any guarantee on the real yield of the product; therefore, any compensation related to recognized defects of the product itself will not, in any case, exceed the value of the seeds purchased.

### **ART.7-CLAIMS**

Any complaints will be valid only if reported to the seller by e-mail or registered (legal) email in the terms set out below:

- Regarding the quality of the seed, within ten days of delivery. About germination and the quality of the seed, within ten days from delivery, within twenty-five days from receipt; the validity of the claim must, in this case, be proved by the buyer by means of subsequent analysis carried out at an official laboratory, on samples taken in contradictory manner between the parties from packages sealed by the seller and in perfect state of preservation.
- As far as varietal purity is concerned, within the normal vegetative cycle of the species, but in any case, before the beginning of the harvest of the crop and not later than eight days from the discovery of the defect. In any case of ascertained validity of the complaint the liability of the seller shall not exceed the value of the disputed seeds.

### **ART.8-USE OF THE GOODS**

The goods sold by the seller must be used exclusively for the production of plants for human and animal consumption or use. The warranty will be invalidated in case of improper use of the goods or in case the buyer, or third party, has processed and repackaged the goods. Improper use shall mean, among other things, to do not store or to do not use the delivered goods according to the prescriptions indicated by the seller. The agamic reproduction of protected and patented varieties is strictly forbidden, as such an act is considered illegal, and as such, it is legally prosecutable.

### **COMPETENT FORUM**

In any hypothesis of dispute and/or controversy of any nature arising from the supply, the only competent court will be the one of Catania.





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